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A-Z Truck Center Project—Chowchilla, CA

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Subject: Air Quality, Health Risk Analysis, Greenhouse Gas, and Energy Technical Memorandum

This Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report was prepared to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), and/or greenhouse gas (GHG) emissions generated from construction and/or operation of the proposed A-Z Truck Center Project in Chowchilla, California would cause significant impacts to air resources in the project area. The respective analyses were conducted within the context of the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] § 21000, et seq.). The methodology follows the Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) prepared by the San Joaquin Valley Air Pollution Control District (SJVAPCD) for the quantification of emissions and evaluation of potential impacts to air resources[1] and the SJVAPCD's Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under the California Environmental Quality Act.[2]

Project Location and Description

The A-Z Truck Center Project consists of the construction and development of a new Travel Center in between State Route 99 and Road 16 ½, South of Avenue 26 in Chowchilla, California. The Project would facilitate the development of the site into a Travel Center that includes 14 gasoline pumps (28 vehicle fueling positions), 13 truck diesel fueling pumps, a convenience store/market with restaurant totaling 12,800 square feet, two (2) standalone quick serve restaurants with drive-throughs, a 95-room hotel, and a semi-truck maintenance shop across the five (5) parcels that make up the site. The project site is located in Madera County and consists of five (5) parcels totaling approximately 15.24 acres:

- **APN 014-020-43:** Proposes two (2) standalone quick serve restaurants (2,800 sf each) with drive-throughs and associated parking stalls.
- **APN 014-020-44 and 014-020-045:** Proposes convenience store and restaurant (12,800 sf), 14 gasoline fueling pumps with 28 fueling positions (10,896 sf canopy

[1] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed October 10, 2023.
[2] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2009. Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA. December 17. Website: https://www.valleyair.org/Programs/CCAP/12-17-09/3%20CCAP%20-%20FINAL%20LU%20Guidance%20-%20Dec%2017%202009.pdf. Accessed October 10, 2023.

area), 13 diesel fueling pumps with 12 truck fueling positions, (6,350 sf canopy area) and parking.

- **APN 014-020-46 and 014-020-047:** Proposes a truck maintenance shop (20,640 sf) with 46 on-site parking not inclusive of 17 truck maintenance parking stalls and an additional 77 long term truck parking stalls for 140 total parking stalls on this parcel.

The project will also include site landscaping, paving, driveways and water/sewer construction from Montgomery Road.

The project site as it currently exists is vacant with no existing structures and requires no removal of hardscape. Street frontage is limited to Road 12 1⁄2 on the east side of the site, which is a two (2)-lane plus center lane, east-west major collector with existing curb, gutter, and sidewalk. SR-99, a north-south state highway, forms the site's western boundary.

Construction is anticipated to be completed in a single-phase beginning in June of 2024 and last for approximately (24) months. The earliest anticipated operational date is June of 2026.

An aerial view of the project site and the project site plan are included as part of Attachment A.

Modeling Parameters and Assumptions

The following modeling parameters and assumptions were used to generate criteria air pollutant (including precursors), Toxic Air Contaminants (TACs), and greenhouse gas (GHG) emissions for the proposed project.

Air Pollutants and GHGs Assessed

Criteria Pollutants Assessed

The following criteria air pollutants were assessed in this analysis: reactive organic gases (ROG), oxides of nitrogen (NO_X), carbon monoxide (CO), sulfur oxides (SO_X), particulate matter less than 10 microns in diameter (PM_{10}), and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$).

Note that the proposed project would emit ozone precursors ROG and NO_X. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

The project does not contain sources that would produce substantial quantities of SO_X emissions during construction or operation. Modeling conducted for the project is provided in Attachment A and includes SO_2 emission estimates. No further analysis of SO_2 is required.

GHGs Assessed

This analysis was restricted to GHGs identified by AB 32, which include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). The proposed project would generate a variety of GHGs, including several defined by AB 32 such as CO_2, CH_4, and N_2O.

Certain GHGs defined by AB 32 would not be emitted by the Truck Center project. HFCs, PFCs, SF_6, and NF_3 are typically used in industrial applications, none of which would be used for

typical travel center operations. Therefore, it is not anticipated that the proposed project would emit those GHGs.

GHG emissions associated with the proposed project construction, as well as future operations were estimated using CO_2 equivalent (CO_2e) emissions as a proxy for all GHG emissions. Construction GHG emissions were amortized over the lifetime of the proposed project. In order to obtain the CO_2e, an individual GHG is multiplied by its Global Warming Potential (GWP). The GWP designates on a pound for pound basis the potency of the GHG compared to CO_2.

Toxic Air Containments Assessed

Diesel particulate matter (DPM)

Studies indicate that diesel particulate matter (DPM) poses the greatest health risk among airborne TACs. The California Air Resources Board (CARB) conducted a 10-year research program that demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic long-term health risk.

DPM is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases: gas and particle. The gas phase is composed of many of the urban hazardous air pollutants, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particle phase also has many different types of particles that can be classified by size or composition. The size of diesel particulates that are of greatest health concern are those that are in the categories of fine and ultra-fine particles. The composition of these fine and ultra-fine particles may be composed of elemental carbon with adsorbed compounds such as organic compounds, sulfate, nitrate, metals, and other trace elements. Diesel exhaust is emitted from a broad range of diesel engines, such as the on-road diesel engines of trucks, buses, and cars, and off-road diesel engines that include locomotives, marine vessels, and heavy-duty equipment.[3]

For purposes of this analysis, DPM exhaust emissions are represented as particulate matter that is 10 micrometers in diameter and smaller (PM_{10}).

Asbestos

Asbestos is a fibrous mineral that both naturally occurs in ultramafic rock (a rock type commonly found in California) and is used as a processed component of building materials. Because asbestos has been proven to cause a number of disabling and fatal diseases, such as asbestosis and lung cancer, it is strictly regulated either based on its natural widespread occurrence or in its use as a building material. In the initial Asbestos National Emission Standards for Hazardous Air Pollutants rule promulgated in 1973, a distinction was made between building materials that would readily release asbestos fibers when damaged or disturbed (friable) and those materials that were unlikely to result in significant fiber release (non-friable). The U.S. Environmental Protection Agency (EPA) has since determined that, when severely damaged, otherwise non-friable materials can release significant amounts of asbestos fibers. Asbestos has been banned from many building materials under the Toxic Substances Control Act, the Clean Air Act, and the Consumer Product Safety Act. Naturally

[3] California Air Resources Board (CARB). 2019. Overview: Diesel Exhaust and Health. Website: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health. Accessed October 10, 2023.

occurring asbestos (NOA) is known to occur in many parts of California and is commonly associated with ultramafic or serpentinite rock.

Model Selection

Criteria Pollutants and GHG Emissions—Model Selection

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. CalEEMod quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, CalEEMod identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

CalEEMod was developed for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California Air Districts. Default data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California Air Districts to account for local requirements and conditions.

CalEEMod is a comprehensive tool for quantifying air quality impacts from land use projects located throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable such as preparing CEQA or National Environmental Policy Act documents, conducting pre-project planning, and, verifying compliance with local air quality rules and regulations, etc.

The A-Z Truck Center project is located in the City of Chowchilla, within Madera County and also within the San Joaquin Valley Air Basin. The modeling follows SJVAPCD guidance, where applicable, from its GAMAQI. The models used in this analysis are summarized as follows:

- Construction emissions: CalEEMod, version 2022.1 (specifically, 2022.1.1.21)
- Operational emissions: CalEEMod, version 2022.1 (specifically, 2022.1.1.21)
- Operational TAC emissions: EMission FACtor (EMFAC) 2021
- Dispersion Model: American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD), version 23132
- Health Risk Metric Calculations: Hot Spots Analysis & Reporting Program 2 (HARP2)

Construction DPM emissions (represented as PM_{10} exhaust) were estimated using CalEEMod version 2022.1. Emissions were estimated for the unmitigated scenario and two mitigated scenarios. The mitigated scenario included the following: clean construction equipment engines (Tier 4 mitigated) and level 3 filters. Equipment tiers refer to a generation of emission standards established by the EPA and CARB that apply to diesel engines in off-road equipment. The “tier” of an engine depends on the model year and horsepower rating; generally, the newer a piece of equipment is, the higher the tier level the equipment is likely to have. Excluding engines greater than 750 horsepower, Tier 1 engines were manufactured generally between 1996 and 2003. Since Tier 1 emission standards were established by the EPA in 1994, increasingly more stringent Tier 2, Tier 3, and Tier 4 (interim and final) standards were adopted by the EPA, as well as CARB.

Toxic Air Containments—Model Selection and Parameters

An air dispersion model is a mathematical formulation used to estimate the air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the U.S. EPA AERMOD (version 23132) air dispersion model. Specifically, AERMOD was used to estimate levels of air emissions at sensitive receptor locations from potential sources of project-generated TACs during the construction period. The use of AERMOD provides a refined methodology for estimating construction impacts by utilizing long-term, measured representative meteorological data for the project site and a representative construction schedule.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. Direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. Terrain elevations were obtained for the project site using the AERMAP model, the AERMOD terrain data pre-processor. The air dispersion model assessment used meteorological data from the Madera Station (Station 93242). The meteorological data used was preprocessed for use with AERMOD by SJVAPCD and included data for the years 2009 to 2011; all years were used in the assessment. To evaluate the proposed project's localized impacts at the point of maximum impact, all receptors were placed within the breathing zone at 1.2 meters above ground level.

For the construction period, construction emissions were assumed to be distributed over the project site with a working schedule of eight hours per day and five days per week. Emissions were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period. To assess impacts during construction, project operations were assessed assuming a 24-hour-per-day, and seven day-per-week schedule. Detailed parameters and complete calculations are contained in Attachment B.

Assumptions

Construction Modeling Assumptions

Schedule

The proposed project would require various tasks including site preparation, grading, building construction, paving, and architectural coating (painting). Table 1 shows the construction schedule used to estimate emissions for the purposes of assessing air quality impacts. The construction schedule utilized in the analysis represents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years or is phased over multiple years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required per CEQA guidelines. The site-specific construction fleet may vary due to specific project needs at the time of construction.

Table 1: Project Construction Schedule

Construction Task	Start Date	End Date	Number of Days per Week	Number of Workdays per Phase
Site Preparation	6/3/2024	6/20/2024	5	14
Grading	6/21/2024	8/16/2024	5	41
Paving	8/17/2024	9/25/2024	5	28
Building Construction	9/26/2024	4/22/2026	5	410
Architectural Coating	4/23/2026	6/1/2026	5	28
Source: Modeling Assumptions and Claimed Output Files (Attachment A).				

Equipment

The off-road equipment fleet for construction were generated using default values from CalEEMod. CalEEMod generates construction fleets for construction activities based on the size of the construction areas. Construction equipment for each construction activity is shown in Table 2.

Table 2: Project Construction Equipment

Construction Task	Equipment Type	Pieces of Equipment	Usage (hours/day)	Horsepower	Load Factor	Fuel Type
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	Diesel
	Tractors/Loaders/Backhoes	4	8	84	0.37	Diesel
Grading	Excavators	2	8	36	0.38	Diesel
	Graders	1	8	148	0.41	Diesel
	Rubber Tired Dozers	1	8	367	0.40	Diesel
	Scrapers	2	8	423	0.48	Diesel
	Tractors/Loaders/Backhoes	2	8	84	0.37	Diesel
Paving	Pavers	2	8	81	0.42	Diesel
	Paving Equipment	2	8	89	0.36	Diesel
	Rollers	2	8	36	0.38	Diesel
Building Construction	Cranes	1	7	367	0.29	Diesel
	Forklifts	3	8	82	0.20	Diesel
	Generator Sets	1	8	14	0.74	Diesel
	Tractors/Loaders/Backhoes	3	7	84	0.37	Diesel
	Welders	1	8	46	0.45	Diesel
	Air Compressors	1	6	37	0.48	Diesel
Architectural Coating	Rubber Tired Dozers	3	8	367	0.40	Diesel
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).						

Vehicles Trips

Table 3 provides a summary of the construction-related vehicle trips. CalEEMod default values were used to estimate the number of construction-related vehicle trips and were supplemented with additional purpose-based trips to avoid underestimating emissions from on-road vehicles anticipated during the construction period.

The default values for hauling trips are based on the assumption that a truck can haul 20 tons (or 16 cubic yards) of material per load. If one load of material is delivered, CalEEMod assumes that one haul truck importing material will also have a return trip with an empty truck (e.g., 2 one-way trips).

The fleet mix for worker trips is light-duty passenger vehicles to light-duty trucks. The vendor trips fleet mix is composed of a mixture of medium and heavy-duty diesel trucks. The hauling trips were assumed to be 100 percent heavy-duty diesel truck trips. CalEEMod default trip lengths for a project in Madera County and a rural setting were used for the worker (7.1 miles), vendor (12.8 miles), and hauling (20 miles) trips.

Table 3: Construction Vehicle Trips

Construction Task	Worker Trips per Day	Vendor Trips per Day	Haul Trips per Day
Site Preparation	17.50	8.00	0.00
Grading	20.00	8.00	3.05
Paving	15.00	8.00	0.00
Building Construction	78.23	31.83	0.00
Architectural Coating	15.65	8.00	0.00

Notes:
Additional vendor trips were added to account for delivery of materials. CalEEMod default trips account for miscellaneous trips in the building construction phases, which were retained in the modeling.
Cut and fill estimates: The analysis assumes 1,000 cubic yards of cut would be exported based on applicant-provided information.
Source: Modeling Assumptions and CalEEMod Output Files (Attachment A).

Operational Modeling Assumptions

Operational emissions are those emissions that occur during operation of the proposed project. The sources are summarized below.

Motor Vehicles

Motor vehicle emissions refer to exhaust and road dust emissions from the automobiles that would travel to and from the proposed project site. Assumptions were based on the accompanying traffic study completed for the project. Modeling was completed using the reported number of average daily trips from the project-specific traffic report. As described in the traffic study prepared for the proposed project, the A-Z Truck Center project is expected to generate 14,214 average daily automobile trips and 2,704 heavy-duty truck trips.[4] Please see Attachment A for detailed assumptions.

[4] VRPA Technologies, Inc. 2023. Chowchilla Travel Station – Transportation Analysis Scoping Document. October 13.

Trip Lengths

The CalEEMod default round trip lengths for a rural setting in Madera County were used in this analysis. The default trip lengths are appropriate for the truck trip lengths, as most trucks would be passing by on their way to another destination related to the movement of goods. Therefore, the default trip lengths represent a conservative estimate for truck trip lengths and would not underestimate associated emissions. Trip lengths are for primary trips. Trip purposes are primary, diverted, and pass-by trips. Diverted trips take a slightly different path than a primary trip. The CalEEMod defaults for percentages of primary, diverted, and pass-by trips were used in the analysis.

Vehicle Fleet Mix

The vehicle fleet mix is defined as the mix of motor vehicle classes active during the operation of the proposed project. Emission factors are assigned to the expected vehicle mix as a function of vehicle class, speed, and fuel use (gasoline- and diesel-powered vehicles). The vehicle fleet mixes were revised to reflect an appropriate mix of passenger vehicles and heavy-duty trucks, consistent with the project specific traffic report; see Appendix A for the fleet mixes applied and the fleet mix calculations.

Area Sources

Consumer Products

Consumer products are various solvents used in non-industrial applications, which emit VOCs during their product use. “Consumer Product” means a chemically formulated product used by household and institutional consumers, including but not limited to: detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. It does not include other paint products, furniture coatings, or architectural coatings. CalEEMod includes default consumer product use rates based on building square footage. The default emission factors developed for CalEEMod were used for consumer products were used.

Architectural Coatings (Painting)

Paints release VOC emissions. The A-Z Truck Center Project buildings included as part of the project would be repainted on occasion. CalEEMod defaults were used for this purpose.

Landscaping Emissions

CalEEMod estimates a total of 180 days for which landscaping equipment would be used to estimate potential emissions for the proposed project.

Indirect Emissions

For GHG emissions, CalEEMod contains calculations to estimate indirect GHG emissions. Indirect emissions are emissions where the location of consumption or activity is different from where actual emissions are generated. For example, electricity would be consumed at the proposed project site; however, emissions associated with producing that electricity are generated off-site at a power plant. Since the electricity can vary greatly based on locations, the user should override these values if they have more specific information regarding their specific water supply and treatment.

Energy Use

The emissions associated with the building electricity and natural gas usage (non-hearth) were estimated based on the land use type and size.

The Renewables Portfolio Standard (RPS) took effect in 2020. The Renewable Electricity Standard requires that electricity providers include a minimum of 33 percent renewable energy in their portfolios by the year 2020. The utilities in California will be required to increase the use of renewable energy sources to 60 percent by 2030.

Other Indirect Emissions (Water Use, Wastewater Use, and Solid Waste)

CalEEMod includes calculations for indirect GHG emissions for electricity consumption, water consumption, and solid waste disposal. For water consumption, CalEEMod calculates embedded energy (e.g., treatment, conveyance, distribution) associated with providing each gallon of potable water to the project. For solid waste disposal, GHG emissions are associated with the disposal of solid waste generated by the proposed project into landfills. CalEEMod default data were used for inputs associated with solid waste.

AIR QUALITY

Environmental Setting

Air quality impacts are both local and regional. Regional and local air quality is impacted by topography, dominant airflows, atmospheric inversions, location, and season. The project is located in Chowchilla, within Madera County. The project site and Madera County are in the San Joaquin Valley Air Basin (Air Basin or SJV Air Basin), which experiences some of the most challenging environmental conditions for air quality in the nation. The following section describes these conditions as they pertain to the Air Basin. The information in this section is primarily from the SJVAPCD's GAMAQI.[5]

Topography

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. The SJVAPCD covers the entirety of the SJV Air Basin. The Air Basin is generally shaped like a bowl. It is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada mountains are along the eastern boundary (8,000 to 14,000 feet in elevation), the Coast Ranges are along the western boundary (3,000 feet in elevation), and the Tehachapi Mountains are along the southern boundary (6,000 to 8,000 feet in elevation).

Climate

The climate is important for air quality because of differences in the atmosphere's ability to trap pollutants close to the ground, which creates adverse air quality; inversely, the atmosphere's ability to rapidly disperse pollutants over a wide area prevents high concentrations from accumulating under different climatic conditions. The SJV Air Basin has an "inland Mediterranean" climate and is characterized by long, hot, dry summers and short, foggy winters. Sunlight can be a catalyst in the formation of some air pollutants (such as ozone); the SJV Air Basin averages over 260 sunny days per year.

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 encountered 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.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the SJV Air Basin form natural horizontal barriers to the dispersion of air contaminants. The wind generally flows south-southeast through the valley, through the Tehachapi Pass and into the Mojave Desert Air Basin portion of Kern County. As the wind moves through the SJV Air Basin, it mixes with the air pollution generated locally, generally transporting air pollutants from the north to the south in the summer and in a reverse flow in the winter.

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

[5] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed October10, 2023.

pressure and light winds allow cold moist air to pool on the San Joaquin Valley 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 $PM_{2.5}$ and PM_{10}.

Criteria Air Pollutants

The Federal Clean Air Act (FCAA) establishes the framework for modern air pollution control. The FCAA, enacted in 1970 and amended in 1990, directs the U.S. EPA to establish ambient air quality standards. These standards are divided into primary and secondary standards. The primary standards are set to protect human health, and the secondary standards are set to protect environmental values, such as plant and animal life. The FCAA requires the EPA to set National Ambient Air Quality Standards for the six criteria air pollutants. These pollutants include particulate matter (PM), ground-level ozone, carbon monoxide (CO), sulfur oxides, nitrogen oxides, and lead.

Toxic Air Contaminants

A toxic air contaminant (TAC) is an air pollutant not included in the California Ambient Air Quality Standards, but TACs are considered hazardous to human health. Toxic air contaminants are defined by the California Air Resources Board (CARB) as those pollutants that, “may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health.”

The health effects associated with TACs are generally assessed locally rather than regionally. Toxic air contaminants can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage; TACs can also cause short-term acute effects such as eye watering, respiratory irritation, running nose, throat pain, and headaches. For evaluation purposes, TACs are separated into carcinogens and noncarcinogens. Carcinogens are assumed to have no safe threshold below which health impacts would not occur, and the cancer risk is expressed as excess cancer cases per one million exposed individuals (typically over a lifetime of exposure).

TACs of concern assessed in this analysis include asbestos, DPM, and benzene.

Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics.

Air Quality Standards

The Clean Air Act requires states to develop a general plan to attain and maintain the standards in all areas of the country and a specific plan to attain the standards for each area designated nonattainment. These plans, known as State Implementation Plans or SIPs, are developed by state and local air quality management agencies and submitted to EPA for approval.

The SIP for the State of California is administered by the CARB, which has overall responsibility for statewide air quality maintenance and air pollution prevention. California's SIP incorporates individual federal attainment plans for each regional air district. SIPs are prepared by the regional air district and sent to CARB to be approved and incorporated into the California SIP. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

The CARB also administers the California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the California Clean Air Act. The 10 state air pollutants include the six federal criteria pollutant standards listed above as well as visibility-reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. The federal and state ambient air quality standards are summarized in Table 4.

Table 4: California and National Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards	National Standards	
		Concentration	Primary	Secondary
Ozone	1 Hour	0.09 ppm (180 µg/m^3)	—	Same as Primary Standard
	8 Hour	0.070 ppm (137 µg/m^3)	0.070ppm (137 µg/m^3)	
Respirable Particulate Matter	24 Hour	50 µg/m^3	150 µg/m3	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m^3	—	
Fine Particulate Matter	24 Hour	—	35 µg/m^3	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m^3	12 µg/m^3	
Carbon Monoxide	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	—
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	—
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	—	—
Nitrogen Dioxide	1 Hour	0.18 ppm (339 µg/m^3)	100 ppb (188 µg/m^3)	—
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary Standard
Sulfur Dioxide	1 Hour	0.25 ppm (655 µg/m^3)	75 ppb (196 µg/m^3)	—
	3 Hour	—	—	0.5 ppm (1300 µg/m^3)
	24 Hour	0.04 ppm (105 µg/m^3)	0.14 ppm (for certain areas)	—
	Annual Arithmetic Mean	—	0.030 ppm (for certain areas)	—
Lead	30-Day Average	1.5 µg/m^3	—	—
	Calendar Quarter	—	1.5 µg/m^3	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m^3	

Pollutant	Averaging Time	California Standards	National Standards	
		Concentration	Primary	Secondary
Visibility-Reducing Particles	8 Hour	See Footnote 1	No National Standards	
Sulfates	24 Hour	25 µg/m^3		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)		
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)		

Notes:
1 - In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.
µg/m3 =micrograms per cubic meter
CARB = California Air Resources Board
mg/m3 = milligrams per cubic meter
ppm = parts per million
Source: California Air Resources Board (CARB). 2017. Air Quality Standards. Website: https://www.baaqmd.gov/about-air-quality/research-and-data/air-quality-standards-and-attainment-status. Accessed October 10, 2023.

Federal and state air quality laws require identification of areas not meeting the ambient air quality standards. These areas must develop regional air quality plans to eventually attain the standards. The SJV Air Basin is designated nonattainment for ozone, PM_{10}, and $PM_{2.5}$.[6]

Thresholds of Significance

Project-level Thresholds

The CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine if a project would have a significant impact on air quality, the type, level, and impact of emissions generated by the proposed project must be evaluated.

This analysis uses the air quality significance thresholds contained in Appendix G of the CEQA Guidelines, effective December 28, 2018. A significant impact would occur if the proposed project would:

a) Conflict with or obstruct implementation of the applicable air quality plan.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard.

c) Expose sensitive receptors to substantial pollutant concentrations.

d) Create objectionable odors affecting a substantial number of people.

[6] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2017. Ambient Air Quality Standards & Valley Attainment Status. Website: https://www.valleyair.org/aqinfo/attainment.htm. Accessed October 10, 2023.

The City of Chowchilla has not established specific CEQA significance thresholds for air quality resources. Where available guidance provided by the applicable air district can be used to make significance determinations for the CEQA questions listed above. 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 in accordance with the Appendix G requirements. If a Lead Agency finds that a project has the potential to exceed these air pollution thresholds, according to the SJVAPCD, the project should be considered to have significant air quality impacts.

Air pollutant emissions have regional effects and localized effects. This analysis assesses the regional effects of the project's criteria pollutant emissions in comparison to SJVAPCD thresholds of significance for short-term construction activities and long-term operation of the project. Localized emissions from project construction and operation are also assessed using concentration-based thresholds that determine if the project would result in a localized exceedance of any ambient air quality standards or would make a cumulatively considerable contribution to an existing exceedance.

The primary pollutants of concern during project construction and operation are ROG, NO_X, PM_{10}, and $PM_{2.5}$. The SJVAPCD GAMAQI adopted in 2015 contains thresholds for ROG and NO_X; SO_X, CO, PM_{10}, and $PM_{2.5}$.

Ozone is a secondary pollutant that can be formed miles away from the source of emissions through reactions of ROG and NO_X emissions in the presence of sunlight. Therefore, ROG and NO_x are termed ozone precursors. The SJVAB often exceeds the state and national ozone standards. Therefore, if the project emits a substantial quantity of ozone precursors, the project may contribute to an exceedance of the ozone standard. The SJVAB also exceeds air quality standards for PM_{10}, and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants.

The SJVAPCD has adopted significance thresholds for construction-related and operational emissions. These thresholds will be identified and addressed in the appropriate section of this document.

Project construction would involve the use of diesel-fueled vehicles and equipment that emit DPM, which is considered a TAC. Once operational, some diesel-fueled vehicles would access the project site. The following project-specific health risk significance thresholds are applied in this analysis:

- Maximum Incremental Cancer Risk: >=20 in 1 million.
- Hazard Index (project increment) >=1.0.

Fugitive Dust

Construction

Fugitive dust would be generated from site grading and other earth-moving activities. Most of this fugitive dust would remain localized and would be deposited near the project site. However, the potential for impacts from fugitive dust exists unless control measures are implemented to

reduce the emissions from the project site. Therefore, adherence to Regulation VIII would be required during construction of the proposed project. Regulation VIII would require fugitive dust control measures that are consistent with best management practices (BMPs) established by the SJVAPCD to reduce the proposed project's construction-generated fugitive dust impacts to a less than significant level.

The SJVAPCD (SJVAPCD or District) adopted Regulation VIII in 1993 and its most recent amendments became effective on October 1, 2004. This is a basic summary of the regulation's requirements as they apply to construction sites. These regulations affect all workers at a regulated construction site, including everyone from the landowner to the subcontractors. Violations of Regulation VIII are subject to enforcement action including fines.[7]

Visible Dust Emissions may not exceed 20 percent opacity during periods when soil is being disturbed by equipment or by wind at any time. Visible Dust Emissions opacity of 20 percent means dust that would obstruct an observer's view of an object by 20 percent. District inspectors are state certified to evaluate visible emissions. Dust control may be achieved by applying water before/during earthwork and onto unpaved traffic areas, phasing work to limit dust, and setting up wind fences to limit windblown dust.

Soil Stabilization is required at regulated construction sites after normal working hours and on weekends and holidays. This requirement also applies to inactive construction areas such as phased projects where disturbed land is left unattended. Applying water to form a visible crust on the soil and restricting vehicle access are often effective for short-term stabilization of disturbed surface areas. Long-term methods including applying dust suppressants and establishing vegetative cover.

Carryout and Trackout occur when materials from emptied or loaded vehicles falls onto a paved surface or shoulder of a public road or when materials adhere to vehicle tires and are deposited onto a paved surface or shoulder of a public road. Should either occur, the material must be cleaned up at least daily, and immediately if it extends more than 50 feet from the exit point onto a paved road. The appropriate clean-up methods require the complete removal and cleanup of mud and dirt from the paved surface and shoulder. Using a blower device or dry sweeping with any mechanical device other than a PM10-efficient street sweeper is a violation. Larger construction sites, or sites with a high amount of traffic on one or more days, must prevent carryout and trackout from occurring by installing gravel pads, grizzlies, wheel washers, paved interior roads, or a combination thereof at each exit point from the site. In many cases, cleaning up trackout with water is also prohibited as it may lead to plugged storm drains. Prevention is the best method.

Unpaved Access and Haul Roads, as well as unpaved vehicle and equipment traffic areas at construction sites must have dust control. Speed limit signs limiting vehicle speed to 15 mph or less at construction sites must be posted every 500 feet on uncontrolled and unpaved roads.

Storage Piles and Bulk Materials have handling, storage, and transportation requirements that include applying water when handling materials, wetting or covering stored materials, and installing wind barriers to limit visible dust emissions. Also, limiting vehicle speeds, loading haul trucks with a freeboard of six inches or greater along with applying water to the top of the load,

[7] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2007. Compliance Assistance Bulletin. Website: http://www.valleyair.org/busind/comply/pm10/forms/RegVIIICAB.pdf. Accessed October 10, 2023.

and covering the cargo compartments are effective measures for reducing visible dust emissions and carryout from vehicles transporting bulk materials.

Dust Control Plans identify the dust sources and describe the dust control measures that will be implemented before, during, and after any dust generating activity for the duration of the project. Owners or operators are required to submit plans to the SJVAPCD at least 30 days prior to commencing the work for the following:

- Residential developments of ten or more acres of disturbed surface area.
- Non-residential developments of five or more acres of disturbed surface area.
- The relocation of more than 2,500 cubic yards per day of materials on at least three days.

Operations may not commence until the SJAVPCD has approved the Dust Control Plan. A copy of the plan must be on site and available to workers and District employees. All work on the site is subject to the requirements of the approved dust control plan. A failure to abide by the plan by anyone on site may be subject to enforcement action.

Record Keeping is required to document compliance with the rules and must be kept for each day any dust control measure is used. The SJVAPCD has developed record forms for water application, street sweeping, and "permanent" controls such as applying long term dust palliatives, vegetation, ground cover materials, paving, or other durable materials. Records must be kept for one year after the end of dust generating activities (Title V sources must keep records for five years).

Exemptions exist for several activities. Those occurring above 3,000 feet in elevation are exempt from all Regulation VIII requirements. Further, Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities exempts the following construction and earthmoving activities:

- Blasting activities permitted by California Division of Industrial Safety.
- Maintenance or remodeling of existing buildings provided the addition is less than 50% of the size of the existing building or less than 10,000 square feet (due to asbestos concerns, contact the SJVAPCD at least two weeks ahead of time).
- Additions to single family dwellings.
- The disking of weeds and vegetation for fire prevention on sites smaller than ½ acre.
- Spreading of daily landfill cover to preserve public health and safety and to comply with California Integrated Waste Management Board requirements.

Nuisances are prohibited at all times because District Rule 4102 – Nuisance applies to all construction sources of fugitive dust, whether or not they are exempt from Regulation VIII. It is important to monitor dust-generating activities and implement appropriate dust control measures to limit the public's exposure to fugitive dust.

Environmental Impact Analysis

This section discusses potential impacts related to air quality associated with the proposed project and provides mitigation measures where necessary.

Impact AIR-1 Conflict with or obstruct implementation of the applicable air quality plan?

Impact Analysis

The CEQA Guidelines indicate that a significant impact would occur if the project would conflict with or obstruct implementation of the applicable air quality plan. The GAMAQI indicates that projects that do not exceed SJVAPCD regional criteria pollutant emissions quantitative thresholds would not conflict with or obstruct the applicable air quality plan (AQP). An additional criterion regarding the project's implementation of control measures was assessed to provide further evidence of the project's consistency with current AQPs. This document proposes the following criteria for determining project consistency with the current AQPs:

1. Will the project result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQPs? This measure is determined by comparison to the regional thresholds identified by the District for Regional Air Pollutants.

2. Will the project comply with applicable control measures in the AQPs? The primary control measures applicable to development projects include Regulation VIII—Fugitive PM_{10} Prohibitions and Rule 9510 Indirect Source Review.

Contribution to Air Quality Violations

A measure for determining if the project is consistent with the air quality plans is if the project would not result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the air quality plans. Regional air quality impacts and attainment of standards are the result of the cumulative impacts of all emission sources within the air basin. Individual projects are generally not large enough to contribute measurably to an existing violation of air quality standards. Therefore, the cumulative impact of the project is based on its cumulative contribution. Because of the region's nonattainment status for ozone, $PM_{2.5}$, and PM_{10}—if project-generated emissions of either of the ozone precursor pollutants (ROG and NO_X), PM_{10}, or $PM_{2.5}$ would exceed the SJVAPCD's significance thresholds—then the project would be considered to contribute to violations of the applicable standards and conflict with the attainment plans.

As shown in Table 5 under Impact AIR-2 below, the project's construction regional emissions would not exceed SJVAPCD's regional criteria pollutant emissions quantitative thresholds. However, emissions of ROG and NO_X associated with the operation of the project would exceed the SJVAPCD's regional significance thresholds and may continue to exceed the applicable thresholds after incorporation of enforceable and feasible mitigation that would reduce the impact. Therefore, the proposed project would not be considered consistent with the air quality plan based on this criterion.

Compliance with Applicable Control Measures

SJVAPCD's AQPs contain a number of control measures, which are enforceable requirements through the adoption of rules and regulations. A description of rules and regulations that apply to this project is provided below.

> **SJVAPCD Rule 9510—Indirect Source Review (ISR)** is a control measure in the 2006 PM_{10} Plan that requires NO_X and PM_{10} emission reductions from development projects in the San Joaquin Valley. The NO_X emission reductions help reduce the secondary formation of PM_{10} in the atmosphere (primarily ammonium nitrate and ammonium sulfate) and also reduce the formation of ozone. Reductions in directly emitted PM_{10} reduce particles such as dust, soot, and aerosols. Rule 9510 is also a control measure in the 2016 Plan for the 2008 8-Hour Ozone Standard. 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. The proposed project would be subject to Rule 9510.
>
> **Regulation VIII—Fugitive** PM_{10} **Prohibitions** is a control measure that is one main strategies from the 2006 PM_{10} for reducing the PM_{10} emissions that are part of fugitive dust. Residential projects over 10 acres and non-residential projects over 5 acres are required to file a Dust Control Plan (DCP) containing dust control practices sufficient to comply with Regulation VIII. The project will be required to comply with Regulation VIII and would implement dust control measures during the construction period.
>
> **Rule 2201—New and Modified Stationary Source Review Rule** requires the review of new and modified Stationary Sources of air pollution and to provide mechanisms including emission trade-offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of Ambient Air Quality Standards. Components of the project may be required to obtain permits and abide by associated regulations set forth by Rule 2201.

Other control measures that apply to the project are Rule 4641—Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operation that requires reductions in VOC emissions during paving and Rule 4601—Architectural Coatings that limits the VOC content of all types of paints and coatings sold in the San Joaquin Valley. These measures apply at the point of sale of the asphalt and the coatings, so project compliance is ensured without additional mitigation measures.

The project would comply with all applicable SJVAPCD rules and regulations. Therefore, the proposed project would not conflict with or obstruct implementation of the applicable air quality attainment plan under this criterion.

Conclusion

As described above, the proposed project's construction emissions would not exceed SJVAPCD's regional criteria pollutant emissions quantitative thresholds. Furthermore, the proposed project would comply with all applicable SJVAPCD rules and regulations. However, emissions of ROG and NO_X associated with the operation of the project would exceed the SJVAPCD's regional significance thresholds and may continue to exceed the applicable thresholds after incorporation of enforceable and feasible mitigation. As such, the project has

the potential to conflict with or obstruct implementation of the applicable air quality plan after the incorporation of mitigation. This represents a significant and unavoidable impact.

Level of Significance Before Mitigation
Potentially significant impact.

Mitigation Measures
Implement MM AIR-2a through MM AIR-2g (see Impact AIR-2).

Level of Significance Before Mitigation
Significant and unavoidable impact.

Impact AIR-2 Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard?

Impact Analysis

To result in a less than significant impact, the following criteria must be true:

1. Regional analysis: emissions of nonattainment pollutants must be below the SJVAPCD's regional significance thresholds. This is an approach recommended by the District in its GAMAQI.
2. Summary of projections: the project must be consistent with current air quality attainment plans including control measures and regulations. This is an approach consistent with Section 15130(b) of the CEQA Guidelines.
3. Cumulative health impacts: the project must result in less than significant cumulative health effects from the nonattainment pollutants. This approach correlates the significance of the regional analysis with health effects, consistent with the court decision, *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1219-20.

Regional Emissions

Air pollutant emissions have both regional and localized effects. This analysis assesses the regional effects of the project's criteria pollutant emissions in comparison to SJVAPCD thresholds of significance for short-term construction activities and long-term operation of the project. Localized emissions from project construction and operation are assessed under Impact AIR-3—Sensitive Receptors using concentration-based thresholds that determine if the project would result in a localized exceedance of any ambient air quality standards or would make a cumulatively considerable contribution to an existing exceedance.

The primary pollutants of concern during project construction and operation are ROG, NO_X, PM_{10}, and $PM_{2.5}$. The SJVAPCD GAMAQI adopted in 2015 contains thresholds for CO, NO_X, ROG, SO_X, PM_{10}, and $PM_{2.5}$.

Ozone is a secondary pollutant that can be formed miles from the source of emissions, through reactions of ROG and NO_X emissions in the presence of sunlight. Therefore, ROG and NO_X are

termed ozone precursors. The Air Basin often exceeds the state and national ozone standards. Therefore, if the project emits a substantial quantity of ozone precursors, the project may contribute to an exceedance of the ozone standard. The Air Basin also exceeds air quality standards for PM_{10}, and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants. The SJVAPCD's annual emission significance thresholds used for the project define the substantial contribution for both operational and construction emissions as follows:

- 100 tons per year CO
- 10 tons per year NO_X
- 10 tons per year ROG
- 27 tons per year SO_X
- 15 tons per year PM_{10}
- 15 tons per year $PM_{2.5}$

The project does not contain sources that would produce substantial quantities of SO_2 emissions during construction and operation. Modeling conducted for the project show that SO_2 emissions are well below the SJVAPCD GAMAQI thresholds, as shown in the modeling results contained in Attachment A. No further discussion of SO_2 is required.

Construction Emissions

Construction activities associated with development of the proposed project would include site preparation, grading, building construction, paving, and architectural coatings. Emissions from construction-related activities are generally short-term in duration but may still cause adverse air quality impacts. During construction, fugitive dust would be generated from earth-moving activities. Exhaust emissions would also be generated from off-road construction equipment and construction-related vehicle trips. Emissions associated with construction of the proposed project are discussed below.

Table 5 provides the construction emissions estimate for the proposed project. Please refer to the Modeling Parameters and Assumptions section of this technical memorandum for details regarding assumptions used to estimate construction emissions. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required pursuant to CEQA guidelines.

Table 5: Construction Regional Air Pollutant Annual Emissions (Unmitigated)

Construction Year	Air Pollutants (ton/year)				
	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
Project Construction (2024)	0.19	1.54	1.59	0.24	0.19
Project Construction (2025)	0.20	1.59	2.08	0.18	0.20
Project Construction (2026)	0.56	0.48	0.65	0.06	0.56
Total Project Construction Emissions (tons over the entire construction duration)	**0.95**	**3.61**	**4.32**	**0.48**	**0.95**
Significance Threshold (tons/year)	**10**	**10**	**100**	**15**	**15**
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**	**No**

Notes:
PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
NO_X = oxides of nitrogen
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ROG = reactive organic gases
Source: CalEEMod Output (Attachment A).

As shown in Table 5, estimated emissions from construction of project are below the SJVAPCD significance thresholds. Therefore, the regional construction emissions would be less than significant on a project basis.

Operational Emissions

Operational Emissions (Regional)—Non-Permitted

As previously discussed, the pollutants of concern include ROG, NO_X, CO, PM_{10}, and $PM_{2.5}$. Emissions were assessed for full buildout operations in the 2026 operational year. The 2026 operational year was chosen as it would be the earliest year the project is anticipated to become operational. Emissions were estimated for full project buildout in the earliest operational year, thus generating the full amount of expected operational activity. The SJVAPCD Criteria Air Pollutant Significance thresholds were used to determine impacts. Operational annual emissions are shown in Table 6 below.

Table 6: Operational Annual Emissions for Full Buildout (Unmitigated)

Emissions Source	Tons per Year				
	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
Area	0.88	0.01	0.76	0.00	0.00
Energy Consumption	0.02	0.34	0.28	0.03	0.03
Mobile (On-road Vehicles)	9.35	20.53	52.35	10.76	2.91
Total Project Annual Emissions	**10.25**	**20.88**	**53.39**	**10.79**	**2.94**

Thresholds of Significance	**10**	**10**	**100**	**15**	**15**
Exceeds Significance Threshold?	**Yes**	**Yes**	**No**	**No**	**No**

Notes:
NO_X = oxides of nitrogen
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases
Source: CalEEMod Output (Attachment A).

As shown in Table 6, operational emissions of NO_X and PM_{10} would exceed the applicable SJVAPCD thresholds of significance. Operations of the project would generate air pollutant emissions that would have the potential to exceed the SJVAPCD's regional significance thresholds for ROG and NO_X at full buildout.

The project is subject to SJVAPCD Rule 9510—Indirect Source Review. The application of the SJVAPCD Rule 9510 would contribute to reducing NO_X and PM_{10}, the two pollutants targeted by Rule 9510—Indirect Source Review. In addition, compliance with SJVAPCD Rule 9410 would contribute to reducing mobile source emissions from employee vehicle trips, if applicable to any future tenants. Even after compliance with SJVAPCD Rule 9510, NO_X and ROG emissions would continue to exceed the applicable thresholds.

Mitigation Measures (MM) AIR-2a to AIR-2g are recommended to reduce long-term operational emissions of NO_X and ROG. Although the measures recommended in MM AIR-2a to AIR-2g would help reduce operational emissions, the emission reductions associated with each measure cannot be accurately determined because of a lack of sufficient information about how the project would operate and to what extent the measures would affect those activities. Specifically, the majority of the emissions are from mobile sources, which include customer and visitor passenger vehicles and trucks. As such, the primary source of emissions for the project would not be controllable by the applicant or future tenants. Therefore, even with the implementation of mitigation measures, the project's long-term operational ROG and NO_X emissions may continue to exceed SJVAPCD's regional threshold of significance. Therefore, operational ROG and NO_X emissions would be considered a significant and unavoidable impact.

Operational Emissions (Regional)—Permitted

The SJVAPCD GAMAQI recommends assessing the emissions from permitted sources of emissions separate from non-permitted sources. The SJVAPCD's permitting process ensures that emissions of criteria pollutants from permitted equipment and activities at stationary sources are reduced or mitigated to below the SJVAPCD's thresholds of significance. SJVAPCD implementation of New Source Review (NSR) ensures that there is no net increase in emissions above specified thresholds from new and modified Stationary Sources subject to the rule for all nonattainment pollutants and their precursors. Permitted sources emitting more than the NSR Offset Thresholds for any criteria pollutant must, in general, offset all emission increases in excess of the thresholds.

Permitted sources will be required to comply with SJVAPCD BACT requirements. Compliance with regulations would ensure that the project's stationary sources would not exceed SJVAPCD

thresholds of significance; therefore, the project's estimated permitted emissions would be less than significant.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

MM AIR-2a through MM AIR-2g are required to reduce the project's potential impacts during operations to the extent feasible.

MM AIR-2a Prior to occupancy of the truck center, the applicant shall post signage on-site advising truck drivers of California Air Resources Board (CARB) diesel idling regulations (i.e., no more than 5 minutes).

MM AIR-2b In order to promote alternative fuels, and help support cleaner truck fleets, the project applicant/successor-in-interest shall provide building occupants and businesses with the following information:

- Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) implemented in the project area by the SJVAPCD or other state programs that restrict owner-controlled operations to "clean" trucks.
- Information including, but not limited to, the health effect of diesel particulates, benefits of reduced idling time, CARB regulations, and importance of not parking in residential areas.

If trucks older than 2018 model year will be used at the project site and part of the project's controlled/owned fleet, the project applicant/successor-in-interest shall require, within one year of signing a lease, future tenants to apply in good-faith for funding for diesel truck replacement/retrofit through grant programs such as the Carl Moyer, Trucks: Prop 1B, Truck Replacement Program funding programs, as identified on SJVAPCD's website (https://ww2.valleyair.org/grants/truck-replacement-program/#). Tenants will be required to use those funds, if awarded.

MM AIR-2c The project applicant, developer, or tenant shall include facilities on-site to encourage truck drivers to limit on-site idling and leave their trucks for periods of rest. These may include but not be limited to:

On-site driver lounge eating area: The project will provide an eating area with a sink and microwave that is accessible for truck drivers making deliveries to or from the project site.
On-site driver lounge rest area: The project will provide a driver lounge rest area that provides bathroom facilities and an indoor or temperature-controlled resting area with chairs or another form of a sitting area accessible to truck drivers visiting the project site.

During site review, the project applicant shall provide documentation to the City of Chowchilla demonstrating incorporation of on-site facilities to satisfy this requirement.

MM AIR-2d Prior to the issuance of building permit(s) for each building, the project applicant shall provide the City of Chowchilla with reasonable documentation demonstrating that the proposed parking areas for passenger automobiles and trucks for project operation of the subject individual development proposal are designed and will be built to include electric vehicle (EV) charging stations. At a minimum, the parking shall be designed to include a number of EV charging stations equal to the Tier 2 Nonresidential Voluntary Measures of the California Green Building Standards Code.

MM AIR-2e The project applicant or future tenants shall implement marketing strategies to encourage employees to rideshare. This may include but not be limited to the following measures:

- Alternate Transportation Bulletin Board: The fulfillment center will maintain a Rideshare Bulletin Board centrally accessible to employees with Rideshare Program information, transit information, bike route information, Rideshare newsletter, and other alternative commute information.
- Employer Rideshare Newsletter: An Employer Rideshare Newsletter will be made available to Associates on the Rideshare Bulletin Board on a quarterly basis.
- Rideshare New Hire Orientation: New Hires will receive information on the fulfillment center's Rideshare Program and commute mode alternatives. New Hires will be shown the Rideshare Board and on-site lockers or safe storage area as part of the standard orientation.
- On-site Rideshare Coordinator: A designated on-site Rideshare Coordinator will be responsible for promoting the Rideshare Program and maintaining the Rideshare Board.

Prior to the occupancy of each building, the project applicant or tenant shall provide documentation to the City of Chowchilla outlining the strategies that will be implemented on-site.

MM AIR-2f The project applicant, developer, or tenant shall include services and facilities on-site to reduce lunchtime errand trips for each proposed commercial building. These may include but not be limited to:

- On-site lockers or safe storage area: Lockers or a safe storage area will be provided on-site and maintained for employee use and shall be made available for use for employees during their shift.
- On-site employee lounge: The project will provide an eating area with a sink, microwave, and refrigerator.

During site review, the project applicant shall provide documentation to the City of Chowchilla demonstrating incorporation of on-site facilities to satisfy this requirement.

MM AIR-2g The following measure shall be applied to all development under the proposed project during construction to facilitate the use of electric landscaping equipment during project operations:

- Provide electrical outlets on the outside of buildings or in other accessible areas to facilitate the use of electrically powered landscape equipment.

Level of Significance After Mitigation

Significant and unavoidable impact.

Impact AIR-3 Expose sensitive receptors to substantial pollutant concentrations?

Impact Analysis

Emissions occurring at or near the project have the potential to create a localized impact that could expose sensitive receptors to substantial pollutant concentrations. Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution than others due to their exposure. Sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases. 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.

The closest existing sensitive receptors (to the site area) are single-family homes located east/northeast of the center of the project site, the closest of which is within 200 feet from the project boundary. Other residences include homes east of Fig Tree Road (the closest of which are approximately 1,003 feet east of the project site), followed by a large tract of homes surrounding a golf course.

The nearest school is Ronald Reagan Elementary School located 2,323 feet (0.44 miles) north of the project. Chowchilla High School is 0.95 mile southwest of the project site. All other schools in Chowchilla are over one mile away from the project site. The nearest daycare facility is Little Peeps Daycare 3,484 feet (0.66 miles) from the project site; all other daycares in Chowchilla are over one (1) mile away from the project site.

There are no hospitals in Chowchilla, however there are a few healthcare facilities. The closest healthcare facility to the project site is Chowchilla Healthcare 1,848 feet (0.35 miles) west of the Jobsite. The closest senior assisted living facility to the project site is Golden Years, 1.33 miles away. A description of the land uses surrounding the project site is provided below.

- North - Directly 0.5 miles north of the project is Fig Tree Plaza, which includes several businesses including: SaveMart grocery store, Mountain Mike's Pizza, Little Caesar's Pizza, and Orchard's Bar and Grill. There are several other businesses within ¼-mile North of the project site including: Best Western Hotel, Pedro's Place Mexican Grill,

Taco Bell, and Taco El Grullense. Ronald Reagan Elementary School is 0.45 mile north of the project site and Cornerstone Community Church is just over ¼-mile north of the project site.

- East - Bordering the project site to the east is developed farmland and a residential subdivision with three (3) east-west streets and two (2) north-south streets. Within ¼-mile east of the project site is a large residential subdivision surrounding Pleasant Run Golf Course. There are also a few businesses including: Lakes RV & Golf Center, Sand Trap Bar & Grill, Prime Skate Boutique, and H2O Solar Cleaning Company.
- South - Highway 99 runs diagonally along the border of the project site to the southwest, followed by developed farmland. Chowchilla High School is just under a mile further southwest of the project site, followed by residential neighborhoods and the most developed portions of the City of Chowchilla.
- West - Steve's Chevrolet of Chowchilla borders the northwest edge of the project site to the west. Highway 99 runs the length of the project site diagonally to the southwest, followed by developed farmland. Pacific Auto Center is 0.10 mile west, across Highway 99. There is a Holiday Inn 0.22 mile directly west, followed by a McDonalds restaurant (0.32 mile), and Arena RV Park (0.37 mile). The City of Chowchilla Corporation Yard is just over 1 mile west, and Days Inn is 0.67 mile west. The main City of Chowchilla and residences starts just over ½-mile west of the project site.

Localized Impacts

Emissions occurring at or near the project have the potential to create a localized impact also referred to as an air pollutant hotspot. Localized emissions are considered significant if when combined with background emissions, they would result in exceedance of any health-based air quality standard. In locations that already exceed standards for these pollutants, significance is based on a significant impact level (SIL) that represents the amount that is considered a cumulatively considerable contribution to an existing violation of an air quality standard. The pollutants of concern for localized impact in the SJVAB are NO_2, SO_X, and CO.

The SJVAPCD has provided guidance for screening localized impacts in the GAMAQI that establishes a screening threshold of 100 pounds per day of any criteria pollutant. If a project exceeds 100 pounds per day of any criteria pollutant, then ambient air quality modeling would be necessary. If the project does not exceed 100 pounds per day of any criteria pollutant, then it can be assumed that it would not cause a violation of an ambient air quality standard.

Construction: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, and NO_X

Local construction impacts would be short-term in nature lasting only during the duration of construction. As shown in Table 7 below, on-site construction emissions would be less than 100 pounds per day for each of the criteria pollutants. To present a conservative estimate, on-site emissions for on-road construction vehicles were included in the localized analysis. Based on the SJVAPCD's guidance, the construction emissions would not cause an ambient air quality standard violation.

Table 7: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, and NO_X for Construction

Daily Maximum	On-site Emissions (pounds per day)				
	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
Daily Maximum (2024)	3.74	36.10	33.23	9.46	5.43
Daily Maximum (2025)	1.50	10.97	14.55	0.66	0.43
Daily Maximum (2026)	36.21	10.37	14.39	0.61	0.38
Entire Project Construction Duration (2024-2026)					
Maximum Daily On-site Emissions	**36.21**	**36.10**	**33.23**	**9.46**	**5.43**
Significance Thresholds	**—**	**100**	**100**	**100**	**100**
Exceed Significance Thresholds?	**—**	**No**	**No**	**No**	**No**

Note: Overlap of construction activities is based on the construction schedule shown in Table 1 and Attachment A.

Source of Emissions: CalEEMod Output and Additional Supporting Information (Attachment A).

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed January 2024.

Operation: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, and NO_X

Localized impacts could occur in areas with a single large source of emissions—such as a power plant—or at locations with multiple sources concentrated in a small area, such as a distribution center. As a truck travel center project with gasoline and diesel fueling pumps, the proposed project would attract vehicle trips (both heavy-duty truck and passenger vehicles) and would emit air pollutants that have the potential to create a localized impact. The maximum daily operational emissions would occur at project buildout, which was assumed to occur in 2026 for the purposes of providing a conservative estimate of emissions. Operational emissions include those generated on-site by area sources such as consumer products, and landscape maintenance, energy use from natural gas combustion, and motor vehicles operation at the project site. To assess localized air impacts, motor vehicle emissions were estimated for on-site and localized operations using an adjusted trip length of 0.5 mile.

Table 8 below summarizes the results from the operational modeling of on-site emissions for the project.

Table 8: Localized Concentrations of PM_{10}, $PM_{2.5}$, CO, and NO_X for Operations

Source	On-site Emissions (pounds per day)				
	ROG	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**
Area	5.50	< 0.01	< 0.01	0.02	0.01
Energy Consumption	0.10	1.85	1.56	0.14	0.14
Mobile (On-road Vehicles)	51.45	58.65	174.19	6.41	1.78
Daily Total	**57.05**	**60.50**	**175.75**	**6.57**	**1.93**
Significance Thresholds	**—**	**100**	**100**	**100**	**100**
Exceed Significance Thresholds?	**—**	**No**	**Yes**	**No**	**No**

Source of Emissions: CalEEMod Output (Attachment A).

Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed January 2024.

As shown in Table 8 above, the proposed project would exceed the SJVAPCD 100-pound-per-day screening threshold for CO but would not exceed other operational screening thresholds for each of the criteria pollutants. Therefore, based on the SJVAPCD's guidance, the operational emissions would not cause an ambient air quality standard violation for NO_X, PM_{10}, or $PM_{2.5}$. Further analysis is needed to determine whether would be significant for CO, which is provided below.

As shown in Table 8, the majority of CO emissions would be from mobile sources, such as passenger vehicles driven by customer and employees to access the project site and visiting heavy-duty trucks. Localized high levels of CO are associated with traffic congestion and idling or slow-moving vehicles. A CO hotspot represents a condition wherein high concentrations of CO may be produced by motor vehicles accessing a congested traffic intersection under heavy traffic volume conditions. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when idling at intersections. Accordingly, vehicle emissions standards have become increasingly more stringent to help remedy this impact.

The analysis prepared for CO attainment in the South Coast Air Basin (SoCAB) by the South Coast Air Quality Management District (SCAQMD) has been used to assist in evaluating potential for CO exceedances in other air basins. Although the SoCAB and the SCAQMD would not be the applicable air basin or air district for the project, applying this guidance is appropriate in this analysis because CO exceedances are caused by idling vehicles and regardless of air district. For example, any project-generated vehicles trips would result in idling of passenger vehicles or trucks at the project site and on adjacent roadways that could lead to a CO exceedance. The CO hotspot analysis contained in the SCAQMD 1992 CO Plan is used to determine potential CO hotspot impacts from the proposed project, because by using the 1992 CO Plan as a worst-case scenario, the proposed project can measure CO impacts against intersections that experienced significantly more vehicle traffic than adjacent to the proposed project. The 1992 CO Plan is used a worst-case scenario because it included a CO hot spot

analysis for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. Subsequently the CO Plan determined that no CO hotspot would occur even with 100,000 vehicles per day at this one intersection.

The traffic volumes near the project site, with project trips, are provided in the project-specific traffic impact analysis. The project-specific traffic impact study reported the number of average daily trips for the travel center project: 14,214 average daily automobile trips and 2,704 heavy-duty truck trips.[8] The traffic volumes at intersections in the study area around the project are lower than what was analyzed in the 1992 CO Plan. Therefore, none of the intersections near the project site would have peak-hour traffic volumes exceeding those at the intersections modeled in the 1992 CO Plan, nor would there be any reason unique to the local meteorology to conclude that this intersection would yield higher CO concentrations if modeled in detail because the project site is not located in an area where air flow would be severely restricted, such as a tunnel or canyon. In conclusion, the addition of the proposed project's daily trips would not generate a CO hotspot at local intersections and operational CO impact would be less than significant.

Toxic Air Contaminants

Construction

Project construction would involve the use of diesel-fueled vehicles and equipment that emit DPM, which is considered a TAC. The SJVAPCD's current threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million).

A project-level assessment was conducted of the potential community health risk and health hazard impacts on surrounding sensitive receptors resulting from the emissions of TACs during construction. A summary of the assessment is provided below, while the detailed assessment is provided in Attachment B.

Construction activity using diesel-powered equipment emits DPM, a known carcinogen. Diesel particulate matter includes exhaust PM_{10} and exhaust $PM_{2.5}$. 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.[9] Health risks from TACs are a function of both concentration and duration of exposure. Construction diesel emissions are temporary, affecting an area for a period of weeks or months. Additionally, construction-related sources are mobile and transient in nature.

[8] VRPA Technologies, Inc. 2023. Chowchilla Travel Station – Transportation Analysis Scoping Document. October 13.
[9] California Air Resources Board (CARB). 2015. The Report on Diesel Exhaust. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/dieseltac/de-fnds.htm. Accessed October 11, 2023.

The health risk assessment evaluated DPM (represented as exhaust PM_{10}) emissions generated during construction of the proposed project and the related health risk impacts for sensitive receptors located within approximately 1,000 feet of the project boundary.

The project site is located within 1,000 feet of existing sensitive receptors that could be exposed to diesel emission exhaust during the construction period. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to concentrations at the receptor locations of interest (i.e., receptors at nearby residences). A maximally exposed receptor (MER) was determined for construction and through the use of the dispersion modeling. A graphical representation of the inputs used in the dispersion modeling, including the locations of modeled receptor locations, is included as part of Attachment B.

Table 9 presents a summary of the proposed project's construction cancer risk and chronic non-cancer hazard impacts at the MER from project construction prior to the application of any equipment mitigation.

Table 9: Health Risks from Unmitigated Project Construction

Scenario	Health Impact Metric	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index
Risks and Hazards from Project Construction to the Off-site MER[1]			
Unmitigated Project Construction	Risks and Hazards at the MER	10.54	0.006
	Applicable Threshold of Significance	**20**	**1**
	Exceeds Individual Source Threshold?	No	No

Notes:

MER = Maximally Exposed Receptor

[1] The MER was determined to be an existing residence located east of the project site at 37°07'22.6"N 120°14'38.7"W (Receptor # 251). It should be noted that this site appears to be vacant in Google Earth images (aerial views from 2021 and street views from 2015); however, this subdivision was mostly built out at the time the analysis was conducted in early 2024.

Source: Attachment B.

As shown in Table 9, estimated health risks from elevated DPM concentrations during construction of the proposed project would not exceed the applicable health risk significance thresholds in any scenario analyzed. Therefore, the proposed project would not result in a significant impact on nearby sensitive receptors from TACs during the construction period.

Operations

Gasoline Station (Benzene)

Out of the toxic compounds emitted from gasoline stations, benzene, ethylbenzene, and naphthalene have cancer toxicity values. However, benzene is the TAC which drives the risk, accounting for 85 percent of cancer risk from gasoline vapors. Furthermore, benzene constitutes more than three to four times the weight of gasoline than ethylbenzene and

naphthalene, respectively.[10] Therefore, ethylbenzene and naphthalene have not been modeled and are instead considered significant in the case that benzene emissions are significant. Additionally, there are substances emitted from gasoline stations, such as toluene and xylene which possess acute adverse health effects (though not cancer risk). However, it is not until the benzene concentrations are more than two orders of magnitude above 10 in one million that the emissions of toluene and xylene begin to cause adverse health effects.[11] Therefore, toluene and xylene emissions have not been modeled and are instead considered significant in the case that benzene concentrations are identified at two orders of magnitude above 10 in one million cancer risk.

Emissions sources in the model include proposed on-site fuel storage tanks and fuel dispensers. The proposed project contemplates aboveground fuel storage tanks and fourteen (14) gasoline fueling stations (28 gasoline vehicle fueling positions). In addition, the project includes 13 diesel fueling pumps (12 heavy-duty truck fueling positions). The specific processes associated with fuel storage tanks and gasoline fuel dispensers that emit air toxics include loading, breathing, refueling, and spillage, as described below:

- Loading – Emissions occur when a fuel tanker truck unloads gasoline into the storage tanks. The storage tank vapors, displaced during loading, are emitted through its vent pipe. (A required pressure/vacuum valve installed on the tank vent pipe significantly reduces these emissions.)
- Breathing – Emissions occur through the storage tank vent pipe as a result of temperature and pressure changes in the tank vapor space.
- Refueling – Emissions occur during motor vehicle refueling when gasoline vapors escape through the vehicle/nozzle interface.
- Spillage – Emissions occur from evaporating gasoline that spills during vehicle refueling.

Loading and breathing emissions exit the underground storage tank vent pipe and are thus treated as a point source. The height and diameter of the vent are assumed to be 3.66 meters and 0.05 meters, respectively. Refueling and spillage emissions are modeled as volume sources with a vertical dimension of 5 meters to correspond to the height of the canopy. For refueling, the release height is assumed to be 1 meter to approximate the height of a vehicle fuel tank inlet, whereas spillage emissions are assumed to be released at ground level since nearly all the gasoline from spillage reaches the ground.

The model was run to obtain the peak 24-hour and annual average concentration in micrograms per cubic meter [µg/m^3] at nearby sensitive receptors.

The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA Human Health Evaluation Manual[12] and the Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual.[13]

[10] South Coast Air Quality Management District (SCAQMD). 2015. Risk Assessment Procedures for Rules 1401, 1401.1, and 212. Website:http://www.aqmd.gov/docs/default-source/rule-book/Proposed-Rules/1401/appx_1401riskassessproc_071517nw.pdf. Accessed May 20, 2022.

[11] California Air Pollution Control Officers Association (CAPCOA). 1997. Gasoline Service Station Industrywide Risk Assessment Guidelines. Website: https://www.co.monterey.ca.us/home/showdocument?id=22409. Accessed May 20, 2022.

[12] United States Environmental Protection Agency (U.S. EPA). 1991. Human Health Evaluation Manual. Website: https://www.epa.gov/sites/default/files/2015-11/documents/defaultExposureParams.pdf. Accessed May 20, 2022.

[13] Office of Environmental Health Hazard Assessment (OEHHA). 2015. Risk Assessment Guidelines. Website: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed May 20, 2022.

Results of the health risk analysis from operations of the proposed gasoline station are summarized in Table 10.

Table 10: Summary of the Health Impacts Risk Impacts (Operational DPM Emissions)

Exposure Scenario	Maximum Cancer Risk (Risk per Million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard from Maximum Hourly Exposure
70-Year Exposure at the MER	1.22	0.005	0.009
Applicable Threshold of Significance	**20**	**1**	**1**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
MER = Maximally Exposed Receptor
Source: Attachment B.

As shown in Table 10, the project would not exceed the applicable cancer risk or chronic risk threshold levels. In addition, these health risk values from the generation of benzene were added to the project's health risk metrics from construction and operational DPM to determine total health risks during operations and a total combined value from project construction and operations (see below).

Operational DPM

The proposed project would primarily generate automobile trips associated with employees, customers, and visitors traveling to and from the project site. In addition, the diesel fueling pumps, truck parking, and other truck amenities would attract heavy-duty truck trips. As described in the traffic study prepared for the proposed project, the A-Z Truck Center project is expected to generate 14,214 average daily automobile trips and 2,704 heavy-duty truck trips.[14]

DPM emissions were estimated for the project-generated truck trips using EMFAC 2021 to assess the project's potential to generate elevated levels of TACs from project heavy-duty truck trips. Sources include the following from project-generated heavy-duty diesel-fueled trucks: on-site idling (including TRUs [Transport Refrigeration Units]), on-site heavy-duty truck travel (assessed at 5-15 mph), and localized off-site truck travel (assessed at 10-25 mph). Detailed assumptions are provided in Attachment B. AERMOD and HARP2 were then used to estimate health risks. The results of the operational HRA from project-generated sources of DPM during operations are summarized below, while the complete assessment is included as part of Attachment B.

Table 11: Summary of the Health Impacts Risk Impacts (Operational DPM Emissions)

Exposure Scenario	Maximum Cancer Risk (Risk per Million)	Chronic Non-Cancer Hazard Index
70-Year Exposure at the MER	40.74	0.008

[14] VRPA Technologies, Inc. 2023. Chowchilla Travel Station – Transportation Analysis Scoping Document. October 13.

Applicable Threshold of Significance	**20**	**1**
Exceeds Individual Source Threshold in Any Scenario?	**Yes**	**No**
Notes: MER = Maximally Exposed Receptor Operational DPM MER Location: 37°07'22.6"N 120°14'38.7"W (Receptor # 251) Source: Attachment B.		

As shown in Table 11, the project's generation of DPM during operations would exceed the applicable cancer risk threshold. In addition, these health risk values were added to the project's health risk metrics from the generation of benzene to determine total health risks during operations and a total combined value from project construction and operations (see below). Required mitigation to reduce health risk impacts from the project's generation of DPM is discussed below, under the combined health risk scenario discussion.

Combined Health Risk Metrics

Health risk metrics are shown for the MER for each TAC, which presents a conservative estimate of overall health risk metrics when combined. The complete emission estimate calculations, AERMOD data, and HARP2 calculations are included in Attachment B of this memorandum.

Table 12: Summary of the Health Impacts from Operations of the Proposed Gasoline Station (70-year Exposure Scenario)

Exposure Scenario	Maximum Cancer Risk (Risk per Million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard from Maximum Hourly Exposure
70-Year Exposure at the MER from Benzene	1.22	0.005	0.009
70-Year Exposure at the MER from DPM	40.74	0.008	0.000
Total Exposure from Project Operations (70-Year Exposure Scenario starting at the 3rd Trimester)	**41.96**	**0.013**	**0.009**
Total Exposure from Project Construction[1] and Operations[2]	**38.96**	**0.015**	**0.009**
Applicable Threshold of Significance	**20**	**1**	**1**
Exceeds Individual Source Threshold in Any Scenario?	**Yes**	**No**	**No**
Notes: MER = Maximally Exposed Receptor MER Location: 37°07'22.6"N 120°14'38.7"W (Receptor # 251) [1] See Table 9 for a summary of estimated health risk metrics from project construction. [2] Health risks from operational DPM for the combined total is calculated starting at age 2, after the completion of construction (cancer risk from operational DPM for 68 years under this scenario is 27.46 per million). Source: Attachment B.			

As shown above in Table 12, the project calculated health metrics from the proposed project's operational emissions would not exceed the non-cancer hazard index significance threshold or acute non-cancer hazard at the MER. However, the cancer risks from the project's operations would exceed the applicable threshold under both the 70-year scenario starting in the third trimester and in the combined construction plus operations scenario. Mitigation measures MM AIR-2a through MM AIR-2d identified under Impact AIR-2 are aimed to reduce emissions from heavy-duty trucks and would also reduce DPM; therefore, these mitigation measures are also required to reduce localized impacts from DPM. Furthermore, MM AIR-3a is recommended to reduce DPM construction emissions, as emissions from construction contribute to the overall cancer risk from TACs generated by the proposed project. MM AIR-3b is required to further reduce impacts from the exposure of DPM to the residences north and northeast of the project site during operations.

As most of the heavy-duty trucks visiting the project site would not be controllable by the applicant or future tenants, the project may continue to exceed the applicable threshold of significance for cancer risk. Therefore, the project's potential to expose sensitive receptors to elevated levels of DPM would be considered a significant and unavoidable impact.

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. The San Joaquin Valley is considered an endemic area for Valley fever. During 2000–2018, a total of 65,438 coccidioidomycosis cases were reported in California; median statewide annual incidence was 7.9 per 100,000 population and varied by region from 1.1 in Northern and Eastern California to 90.6 in the Southern San Joaquin Valley, with the largest increase (15-fold) occurring in the Northern San Joaquin Valley. Incidence has been consistently high in six counties in the Southern San Joaquin Valley (Fresno, Kern, Kings, Madera, Tulare, and Merced counties) and Central Coast (San Luis Obispo County) regions.[15] California experienced 7,393 new probable or confirmed cases of Valley fever onset in 2022. A total of 56 onset Valley fever cases were reported in Madera County in 2022 and 66 in 2023.[16]

The distribution of *C. immitis* within endemic areas is not uniform and 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 possible, of sites

[15] Centers for Disease Control and Prevention (CDC). 2020. Regional Analysis of Coccidioidomycosis Incidence—California, 2000–2018. Website: https://www.cdc.gov/mmwr/volumes/69/wr/mm6948a4.htm?s_cid=mm6948a4_e. Accessed October 11, 2023.

[16] California Department of Public Health (CDPH). 2023. Coccidioidomycosis in California Provisional Monthly Report: January – December 2023 (as of December 31, 2023). Website: https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciinCA ProvisionalMonthlyReport.pdf. Accessed January 2024.

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*:

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) Old (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.[17]

The project is situated on a site previously disturbed that does not provide a suitable habitat for spores. Specifically, the project site has been previously disturbed and is sparsely covered with shrubbery. Therefore, development of the proposed project would have a lower probability of the site having *C. immitis* growth sites than if the site had been previously undisturbed.

Although conditions are not favorable, construction activities could generate fugitive dust that contain *C. immitis* spores. The project will minimize the generation of fugitive dust during construction activities by complying with SJVAPCD's Regulation VIII. Therefore, this regulation, combined with the relatively low probability of the presence of *C. immitis* spores would reduce Valley fever impacts to less than significant.

During operations, dust emissions are anticipated to be relatively small because most of the project area where operational activities would occur would be occupied by the proposed buildings, landscaping, and pavement associated with the proposed A-Z Truck Center

[17] United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), 2000, Open-File Report 2000-348. Website: https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf. Accessed July 29, 2023.

development; it is anticipated that all internal travel areas would be paved. This condition would lessen the possibility of the project from providing habitat suitable for *C. immitis* spores and for generating fugitive dust that may contribute to Valley fever exposure. Impacts would be less than significant.

Naturally Occurring Asbestos

Review of the map of areas where naturally occurring asbestos in California are likely to occur found no such areas in the immediate project area. Therefore, development of the project is not anticipated to expose receptors to naturally occurring asbestos.[18] Impacts would be less than significant.

Impact Analysis Summary

In summary, the project would not result in a significant impact from localized criteria pollutants. The project is not a significant source of TAC emissions during construction when construction is considered without project operations. The project is not in an area with suitable habitat for Valley fever spores and is not in an area known to have naturally occurring asbestos. The project would be a significant source of TAC emissions from its generation of DPM emissions, primarily from heavy-duty trucks during operations. Mitigation measures MM AIR-2a through MM AIR-2d, MM AIR-3a, and MM AIR-3b are required to reduce the project's potential to expose sensitive receptors to elevated levels of TACs. The project may continue to exceed the applicable cancer risk threshold, even after incorporation of feasible and enforceable mitigation that would reduce the impact. Therefore, the project's potential to expose sensitive receptors to elevated levels of DPM would be considered a significant and unavoidable impact.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

Implement MM AIR-2a through MM AIR-2d (see Impact AIR-2) and the following measures:

MM AIR-3a Before a construction permit is issued for the proposed project, the project applicant, project sponsor, or construction contractor shall submit provide reasonably detailed compliance with one of the following requirements to the City of Chowchilla:

(1) **Option 1)** Where portable diesel engines are used during construction, all off-road equipment with engines greater than 75 horsepower shall have engines that meet either United States Environmental Protection Agency (EPA) or California Air Resources Board (CARB) Tier 4 off-road emission standards except as otherwise specified herein. If engines that comply with Tier 4 Interim or Tier 4 Final off-road emission standards are not commercially available, then the construction contractor shall use the next cleanest piece of off-road equipment (e.g., Tier 3) that is commercially available. For purposes of this

[18] U.S. Geological Survey. 2011. Van Gosen, B.S., and Clinkenbeard, J.P. California Geological Survey Map Sheet 59. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Open-File Report 2011-1188 Website: https://pubs.usgs.gov/of/2011/1188/. Accessed October 11, 2023.

project design feature, "commercially available" shall mean the equipment at issue is available taking into consideration factors such as (i) critical-path timing of construction; and (ii) geographic proximity to the project site of equipment. If the relevant equipment is determined by the project applicant to not be commercially available, the contractor can confirm this conclusion by providing letters from at least two rental companies for each piece of off-road equipment that is at issue.

(2) **Option 2)** Prior to the issuance of any demolition, grading, or building permits (whichever occurs earliest), the project applicant and/or construction contractor shall prepare a construction operations plan that, during construction activities, requires all off-road equipment with engines greater than 75 horsepower to meet either the particulate matter emissions standards for Tier 4 Interim engines or be equipped with Level 3 diesel particulate filters. Tier 4 Interim engines shall, at a minimum, meet EPA or CARB particulate matter emissions standards for Tier 4 Interim engines. Alternatively, use of CARB-certified Level 3 diesel particulate filters on off-road equipment with engines greater than 75 horsepower can be used in lieu of Tier 4 Interim engines or in combination with Tier 4 Interim engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Chowchilla.

MM AIR-3b Prior to the issuance of building permit(s) for the main travel center building (the market/restaurant building totaling 12,800 square feet), the applicant shall demonstrate to the City of Chowchilla the inclusion of a vegetative buffer along the project boundary bordering Montgomery Lake Way (Road 16 ½) to provide a buffer between the residences directly east and northeast of the project site and the project's truck fueling and parking areas. Portions of the vegetative buffer shall be included on the following APNs: 014-020-045, 014-020-46, and 014-020-047. Examples of vegetative buffers may include, but are not limited to, trees and/or bushes.

Level of Significance After Mitigation

Significant and unavoidable impact.

Impact AIR-4 Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Impact Analysis

Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor. According to the *CBIA v. BAAQMD* ruling, impacts of existing sources of odors on the project are not subject to CEQA review. Therefore, the analysis to determine if the project would locate new sensitive receptors near an existing source of odor is not used to determine significance for this impact.

Odor impacts on residential areas and other sensitive receptors, such as hospitals, day-care centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

Although the project site is within approximately 200 feet from the nearest sensitive receptor, the project is not expected to be a significant source of odors. The screening levels for these land use types are shown in Table 13.

Table 13: Screening Levels for Potential Odor Sources

Odor Generator	Screening Distance
Wastewater Treatment Facilities	2 miles
Sanitary Landfill	1 mile
Transfer Station	1 mile
Composting Facility	1 mile
Petroleum Refinery	2 miles
Asphalt Batch Plant	1 mile
Chemical Manufacturing	1 mile
Fiberglass Manufacturing	1 mile
Painting/Coating Operations (e.g., auto body shop)	1 mile
Food Processing Facility	1 mile
Feed Lot/Dairy	1 mile
Rendering Plant	1 mile
Wastewater Treatment Facilities	2 miles
Source of Thresholds: San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. February 19. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed October 11, 2023.	

Project Construction and Project Operation

The occurrence and severity of odor impacts depend on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the presence of sensitive receptors. Although offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress and often generating citizen complaints to local governments and regulatory agencies. Project operations would not be anticipated to produce odorous emissions, as the project would not be considered an odor generator based on the land uses shown in Table 13. Construction activities associated with the proposed project could result in short-term odorous emissions from diesel exhaust associated with construction equipment. However, these emissions would be intermittent and would dissipate rapidly from the source. In addition, this diesel-powered equipment would only be present onsite temporarily during construction activities. The temporary and intermittent nature of construction activities

would decrease the likelihood of the odors concentrating in a single area or lingering for any notable period of time. As such, these odors would likely not be noticeable for extended periods of time beyond the project's site boundaries. Therefore, construction would not create objectionable odors affecting a substantial number of people from use of diesel-powered equipment. As there would not be conditions under which the project would have the potential to expose a substantial number of people to odors emitted from construction or operations of the project, and the impact would be less than significant.

Level of Significance Before Mitigation

Less than significant.

Mitigation Measures

No mitigation measures are necessary.

GREENHOUSE GASES

Environmental Setting

Greenhouse Gases

Greenhouse gases and climate change are cumulative global issues. The CARB and EPA regulate GHG emissions within the State of California and the U.S., respectively. Meanwhile, the CARB has the primary regulatory responsibility within California for GHG emissions. Local agencies can also adopt policies for GHG emission reduction.

Many chemical compounds in the Earth's atmosphere act as GHGs as they absorb and emit radiation within the thermal infrared range. When radiation from the sun reaches the Earth's surface, some of it is reflected into the atmosphere as infrared radiation (heat). Greenhouse gases absorb this infrared radiation and trap the heat in the atmosphere. Over time, the amount of energy from the sun to the Earth's surface should be approximately equal to the amount of energy radiated back into space, leaving the temperature of the earth's surface roughly constant. Many gases exhibit these "greenhouse" properties. Some of them occur in nature (water vapor, carbon dioxide [CO_2], methane [CH_4], and nitrous oxide [N_2O]), while others are exclusively human made (like gases used for aerosols).

The principal climate change gases resulting from human activity that enter and accumulate in the atmosphere are listed below.

Carbon Dioxide

Carbon dioxide enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and chemical reactions (e.g., the manufacture of cement). Carbon dioxide is also removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.

Methane

Methane is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and agricultural practices and the decay of organic waste in municipal solid waste landfills.

Nitrous Oxide

Nitrous oxide is emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.

Fluorinated Gases

Hydrofluorocarbons, perfluorinated chemicals, and sulfur hexafluoride are synthetic, powerful climate-change gases that are emitted from a variety of industrial processes. Fluorinated gases are often used as substitutes for ozone-depleting substances (i.e., chlorofluorocarbons, hydrochlorofluorocarbons, and halons). These gases are typically emitted in smaller quantities, but because they are potent climate-change gases, they are sometimes referred to as high global warming potential gases.

Emissions Inventories and Trends

According to the CARB's recent GHG inventory for the State, released 2021, California produced 418.2 million metric tons of carbon dioxide equivalent ($MMTCO_2e$) in 2019. The major source of GHGs in California is transportation, contributing approximately 39.7 percent of the state's total GHG emissions in 2019.[19] This puts total emissions at 12.8 $MMTCO_2e$ below the 2020 target of 431 million metric tons. California statewide GHG emissions dropped below the 2020 GHG limit in 2016 and have remained below the 2020 GHG limit since then.

Potential Environmental Impacts

For California, climate change in the form of warming has the potential to incur and exacerbate environmental impacts, including but not limited to changes to precipitation and runoff patterns, increased agricultural demand for water, inundation of low-lying coastal areas by sea-level rise, and increased incidents and severity of wildfire events.[20] Cooling of the climate may have the opposite effects. Although certain environmental effects are widely accepted to be a potential hazard to certain locations, such as rising sea level for low-lying coastal areas, it is currently infeasible to predict all environmental effects of climate change on any one location.

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial and 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.

Regulatory Requirements

California has adopted statewide legislation addressing various aspects of climate change and GHG emissions mitigation. Much of this legislation establishes a broad framework for the state's long-term GHG reduction and climate change adaptation program. The governor has also issued several executive orders (EOs) related to the state's evolving climate change policy. Of particular importance are AB 32 and SB 32, which outline the state's GHG reduction goals of achieving 1990 emissions levels by 2020 and a 40 percent reduction below 1990 emissions levels by 2030.

In the absence of federal regulations, control of GHGs is generally regulated at the state level and is typically approached by setting emission reduction targets for existing sources of GHGs, setting policies to promote renewable energy and increase energy efficiency, and developing statewide action plans.

CEQA Guidelines

[19] California Air Resources Board (CARB). 2021. California Greenhouse Gas Emissions for 2000 to 2019. Website: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2019/ghg_inventory_trends_00-19.pdf. Accessed October 11, 2023.

[20] Moser et al. 2009. Moser, Susie, Guido Franco, Sarah Pittiglio, Wendy Chou, Dan Cayan. 2009. The Future Is Now: An Update on Climate Change Science Impacts and Response Options for California. Website: http://www.susannemoser.com/documents/CEC-500-2008-071_Moseretal_FutureisNow.pdf. Accessed October 11, 2023.

The CEQA Guidelines define a significant effect on the environment as "a substantial, or potentially substantial, adverse change in the environment." To determine if a project would have a significant impact on GHGs, the type, level, and impact of emissions generated by the project must be evaluated.

The following GHG significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

Thresholds of Significance

San Joaquin Valley Air Pollution Control District

The SJVAPCD's Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA presents a tiered approach to analyzing project significance with respect to GHG emissions. Project GHG emissions are considered less than significant if they can meet any of the following conditions, evaluated in the order presented:

- Project is exempt from CEQA requirements;
- Project complies with an approved GHG emission reduction plan or GHG mitigation program;
- Project implements Best Performance Standards (BPS); or
- Project demonstrates that specific GHG emissions would be reduced or mitigated by at least 29 percent compared to Business-as-Usual (BAU), including GHG emission reductions achieved since the 2002-2004 baseline period.

Project-level Thresholds

Section 15064.4(b) of the CEQA Guidelines' amendments for GHG emissions states that a lead agency may take into account the following three considerations in assessing the significance of impacts from GHG emissions.

- Consideration #1: The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- Consideration #2: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- Consideration #3: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project

are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an Environmental Impact Report (EIR) must be prepared for the project.

Newhall Ranch

In the California Supreme Court decision in the *Center for Biological Diversity et al. vs. California Department of Fish and Wildlife, the Newhall Land and Farming Company* (62 Cal.4th 204 [2015], and known as the Newhall Ranch decision), the Supreme Court was concerned that new development may need to reduce GHG emissions more than existing development to demonstrate it is meeting its fair share of reductions. New development does do more than its fair share through compliance with enhanced regulations, particularly with respect to motor vehicles, energy efficiency, and electricity generation. If no additional reductions are required from an individual project beyond that achieved by regulations, then the amount needed to reach the 2020 target is the amount of GHG emissions a project must reduce to comply with Statewide goals.

The State's regulatory program implementing the 2008 Scoping Plan is now fully mature. All regulations envisioned in the Scoping Plan have been adopted by the responsible agencies and the effectiveness of those regulations have been estimated by the agencies during the adoption process and then are tracked to verify their effectiveness after implementation. The Governor Brown, in the introduction to Executive Order B-30-15, states "California is on track to meet or exceed the current target of reducing greenhouse gas emissions to 1990 levels by 2020, as established in the California Global Warming Solutions Act of 2006 (AB 32)." The progress was evident in emission inventories prepared by CARB, which showed that the State inventory dropped below 1990 levels for the first time in 2016.[21] The State projects that it will meet the 2020 target and achieve continued progress towards meeting the 2017 Scoping Plan target for 2030.[22] CARB adopted the 2022 Scoping Plan on December 16, 2022 that addresses long-term GHG goals set forth by AB 1279.[23] The 2022 Scoping Plan outlines the State's pathway to achieve carbon neutrality and an 85 percent reduction in 1990 emissions goal by 2045. In the 2022 Scoping Plan, CARB advocates for compliance with a local GHG reduction strategy consistent with CEQA Guidelines section 15183.5.

GHG Threshold Applied in the Analysis

The City of Chowchilla has not adopted a GHG reduction plan. In addition, the City has not completed the GHG inventory, benchmarking, or goal-setting process required to identify a reduction target and take advantage of the streamlining provisions contained in the CEQA Guidelines amendments adopted for SB 97 and clarifications provided in the CEQA Guidelines amendments adopted on December 28, 2018. In the absence of an adopted numeric GHG emissions threshold consistent with the State's 2030 target, the project's GHG emissions impact determination is based on the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or

[21] California Air Resources Board (CARB). 2018. Climate Pollutants Fall Below 1990 Levels for the First Time. Website: https://ww2.arb.ca.gov/news/climate-pollutants-fall-below-1990-levelsfirst-time. Accessed October 11, 2023.
[22] California Air Resources Board (CARB). 2017. The 2017 Climate Change Scoping Plan Update, the Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. January 17, 2017. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed October 11, 2023.
[23] The Final 2022 Scoping Plan was released in November 2022 and adopted by CARB in December 2022.

mitigation of GHG emissions. The project's GHG emissions are provided for informational purposes only.

Environmental Impact Analysis

This section discusses potential impacts related to GHGs associated with the proposed project and provides mitigation measures where necessary.

Impact GHG-1 Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Impact Analysis

The proposed project may contribute to climate change impacts through its contribution of GHGs. The proposed project would generate a variety of GHGs during construction and operations, including several defined by AB 32, such as CO_2, CH_4, and N_2O from the exhaust of equipment during construction and on-road vehicle trips during construction and operations.

In the absence of an adopted numeric GHG emissions threshold consistent with the State's 2030 target, the project's GHG emissions impact determination is based on the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. The project's GHG emissions are provided for informational purposes only.

Quantification of Greenhouse Gas Emissions for Informational Purposes

Construction Emissions

Construction emissions would be generated from the exhaust of construction equipment, material delivery trips, haul truck trips, and worker commuter trips. Detailed construction assumptions are provided in Modeling Parameters and Assumptions section of this technical memorandum. Construction-generated GHGs were quantified and are disclosed in Attachment A. $MTCO_2e$ emissions during construction of the project are summarized below in Table 14.

Table 14: Construction Greenhouse Gas Emissions

Project Construction (2024-2026)	**$MTCO_2e$ per Year**
Site Preparation (2024)	37
Grading (2024)	136
Paving (2024)	25
Building Construction (2024-2026)	772
Architectural Coating (2026)	7
Total Construction $MTCO_2e$	**977**
Emissions Amortized Over 30 Years[1]	**32.6**

Notes:
$MTCO_2e$ = metric tons of carbon dioxide equivalent
[1] Construction GHG emissions are amortized over the 30-year lifetime of the project.
Source: CalEEMod Output (Attachment A).

During the construction of the proposed project, approximately 977 $MTCO_2e$ would be emitted. Neither the City of Chowchilla nor the SJVAPCD have an adopted threshold of significance for construction related GHG emissions. Because impacts from construction activities occur over a relatively short-term period, they contribute a relatively small portion of the overall lifetime project GHG emissions. In addition, GHG emission reduction measures for construction equipment are relatively limited. Therefore, a standard practice is to amortize construction emissions over the anticipated lifetime of a project so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies. However, emissions were quantified for informational purposes only. The total emissions generated during construction were amortized based on the life of the development (30 years) and added to the operational emissions to determine the total emissions from the project, as shown below.

Operational Emissions

Operational or long-term emissions occur over the life of the project. The operational emissions for the proposed project are shown in Table 15. Sources for operational emissions include the following:

- Motor Vehicles: These emissions refer to GHG emissions contained in the exhaust from the cars and trucks that would travel to and from the project site. As described in the traffic study prepared for the proposed project, the A-Z Truck Center project is expected to generate 14,214 average daily automobile trips and 2,704 heavy-duty truck trips.[24]
- Natural Gas: These emissions refer to the GHG emissions that occur when natural gas is burned on the project site. Natural gas uses could include heating water, space heating, dryers, stoves, or other uses.
- Indirect Electricity: These emissions refer to those generated by offsite power plants to supply electricity required for the project.
- Water Transport: These emissions refer to those generated by the electricity required to transport and treat the water to be used on the project site.
- Waste: These emissions refer to the GHG emissions produced by decomposing waste generated by the project.

Detailed modeling results and more information regarding assumptions used to estimate emissions are provided in Attachment A. Operational emissions are shown in Table 15.

Table 15: Operational Greenhouse Gas Emissions for Project Buildout

Source Category	Project Total Buildout Year ($MTCO_2e$/year)
Area	3
Energy Consumption	608
Mobile (On-road Vehicles)	16,716
Water Usage	12
Solid Waste Generation	73
Refrigerants	1,185

[24] VRPA Technologies, Inc. 2023. Chowchilla Travel Station – Transportation Analysis Scoping Document. October 13.

Source Category	Project Total Buildout Year ($MTCO_2e$/year)
Amortized Construction Emissions	**33**
Total	**18,630**
Notes: $MTCO_2e$ = metric tons of carbon dioxide equivalent Source: CalEEMod Output (Attachment A).	

As previously noted, the project's estimated emissions were estimated for disclosure purposes. However, significance for GHG emissions is analyzed by assessing the project's compliance with Consideration No. 3 regarding consistency with adopted plans to reduce GHG emissions. As discussed in detail below, the project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of GHGs. As such, the project's generation of GHG emissions would not result in a significant impact on the environment.

Impact Analysis (Project's Compliance with Consideration No. 3 Regarding Consistency with Adopted Plans to Reduce GHG Emissions)

The following analysis evaluates the project's compliance with Consideration No. 3 regarding consistency with adopted plans to reduce GHG emissions. As discussed above, the City of Chowchilla has not adopted a GHG reduction plan. In addition, the City has not completed the GHG inventory, benchmarking, or goal-setting process required to identify a reduction target and take advantage of the streamlining provisions contained in the CEQA Guidelines amendments adopted for SB 97 and clarifications provided in the CEQA Guidelines. The SJVAPCD has adopted a Climate Action Plan, but it does not contain measures that are applicable to the project. Therefore, the SJVAPCD Climate Action Plan cannot be applied to the project. Since no other local or regional Climate Action Plan is in place, the project is assessed for its consistency with CARB's adopted 2008, 2017, and 2022 Scoping Plans.

Greenhouse Gas Emissions Estimation Summary and Greenhouse Gas Impact Analysis

Greenhouse Gas Impact Analysis

The following analysis assesses the proposed project's compliance with Consideration No. 3 regarding consistency with adopted plans to reduce GHG emissions. The proposed project is assessed for its consistency with CARB's adopted Scoping Plans. This would be achieved with an assessment of the proposed project's compliance with Scoping Plan measures contained in the 2017 Scoping Plan Update and addressing the project's consistency with the 2022 Scoping Plan.

Consistency with SB 32

The 2017 Climate Change Scoping Plan Update (2017 Scoping Plan) includes the strategy that the State intends to pursue to achieve the 2030 targets of Executive Order S-3-05 and SB 32. The 2017 Scoping Plan includes the following summary of its overall strategy for reaching the 2030 target:

- SB 350

  - Achieve 50 percent Renewables Portfolio Standard (RPS) by 2030.
  - Doubling of energy efficiency savings by 2030.
- Low Carbon Fuel Standard (LCFS)
  - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
- Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
  - Maintaining existing GHG standards for light- and heavy-duty vehicles.
  - Put 4.2 million zero-emission vehicles (ZEVs) on the roads.
  - Increase ZEV buses, delivery and other trucks.
- Sustainable Freight Action Plan
  - Improve freight system efficiency.
  - Maximize use of near-zero emission vehicles and equipment powered by renewable energy.
  - Deploy over 100,000 zero-emission trucks and equipment by 2030.
- Short-Lived Climate Pollutant (SLCP) Reduction Strategy
  - Reduce emissions of methane and hydrofluorocarbons 40 percent below 2013 levels by 2030.
  - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
- SB 375 Sustainable Communities Strategies
  - Increased stringency of 2035 targets.
- Post-2020 Cap-and-Trade Program
  - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.
  - CARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In Fall 2016, CARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.
- By 2018, develop Integrated Natural and Working Lands Action Plan to secure California’s land base as a net carbon sink.

Table 16 provides an analysis of the project’s consistency with the 2017 Scoping Plan Update measures.

Table 16: Consistency with SB 32 2017 Scoping Plan Update

Scoping Plan Measure	Project Consistency
SB 350 50% Renewable Mandate. Utilities subject to the legislation will be required to increase their renewable energy mix from 33% in 2020 to 50% in 2030. This has been increased to 60%.	**Consistent**: The project will purchase electricity from a utility subject to the SB 350 Renewable Mandate SB 100 Renewable Mandate. SB 100 revised the Renewable Portfolio Standard goals to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. The specific provider for the City of Chowchilla and the proposed project is Pacific Gas and Electric (PG&E).
SB 350 Double Building Energy Efficiency by 2030. This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels.	**Not Applicable**. This measure applies to existing buildings. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time.
Low Carbon Fuel Standard. This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030.	**Consistent**. Vehicles accessing the project site will use fuel containing lower carbon content as the fuel standard is implemented.
Mobile Source Strategy (Cleaner Technology and Fuels Scenario). Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy-Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs on the road by 2030 and increasing numbers of ZEV trucks and buses.	**Consistent**. The project consists of a Truck Center development including: fuel, repairs, food and parking. The project would not engage in vehicle manufacturing; however, vehicles would access the project site during project operations. Future project customers and other visitors can be expected to purchase increasing numbers of more fuel efficient and zero emission cars and trucks each year. Visiting truck trips will be made by increasing numbers of ZEV trucks as fleets turnover across the state.
Sustainable Freight Action Plan. The plan's target is to improve freight system efficiency 25 percent by increasing the value of goods and services produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be achieved by deploying over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030.	**Not Applicable**. The measure applies to owners and operators of trucks and freight operations. Although the truck center project would attract heavy-duty truck trips, the vast majority of the trucks visiting the project site would not be owned or controlled by the project applicant or future project tenants. However, deliveries and truck customers that would travel to the future A-Z Truck Center development are expected to be made by increasing number of ZEV trucks.
Short-Lived Climate Pollutant (SLCP) Reduction Strategy. The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030.	**Consistent.** Sources of black carbon are already regulated by the CARB and air district criteria pollutant and toxic regulations that control fine particulate emissions from diesel engines and other combustion sources.
SB 375 Sustainable Communities Strategies. Requires Regional Transportation Plans to include a sustainable community's strategy for reduction of per capita vehicle miles traveled.	**Not Applicable**. The project does not consist of a proposed regional transportation plan; therefore, this measure is not applicable to the proposed project.
Post-2020 Cap-and-Trade Program. The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial	**Consistent.** The post-2020 Cap-and-Trade Program indirectly affects people who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. The Cap-and-Trade Program covers the GHG emissions

Scoping Plan Measure	Project Consistency
sources such as power plants, refineries, and cement manufacturers.	associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects' electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the program's first compliance period.
Natural and Working Lands Action Plan. The CARB is working in coordination with several other agencies at the federal, state, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the governor's Executive Order B-30-15 to reduce GHG emissions and to cultivate net carbon sequestration potential for California's natural and working land.	**Not Applicable**. The project consists of a Truck Center facility development with fuel, repairs, food and parking. The Truck Center will not be considered as natural or working lands.
Source: California Air Resources Board (CARB). 2017. The 2017 Climate Change Scoping Plan Update. January 20. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed October 2023.	

Consistency Regarding GHG Reduction Goals for 2050 under Executive Order S-3-05 and GHG Reduction Goals for 2045 under the 2022 Scoping Plan

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures with any level of certainty, as they have not yet been developed; nevertheless, it can be anticipated that operation of the project would comply with whatever measures are enacted that state lawmakers decide would lead to an 80 percent reduction below 1990 levels by 2050. In its 2008 Scoping Plan, CARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." In the First Scoping Plan Update; however, CARB generally described the type of activities required to achieve the 2050 target: "energy demand reduction through efficiency and activity changes; large scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately." The 2017 Scoping Plan provides an intermediate target that is intended to achieve reasonable progress toward the 2050 target. In addition, the 2022 Scoping Plan outlines objectives, regulations, planning efforts, and investments in clean technologies and infrastructure that outlines how the State can achieve carbon-neutrality by 2045.

Accordingly, taking into account the proposed project's emissions, project design features, and the progress being made by the State towards reducing emissions in key sectors such as transportation, industry, and electricity, the project would be consistent with State GHG Plans and would further the State's goals of reducing GHG emissions to 1990 levels by 2020, 40 percent below 1990 levels by 2030, carbon neutral by 2045, and 80 percent below 1990 levels by 2050, and does not obstruct their attainment. Impacts would be less than significant.

Conclusion

Taking into account the proposed project's design features and the progress being made by the State towards reducing emissions in key sectors such as transportation, industry, and electricity, the proposed project would be consistent with State and local GHG Plans would not obstruct their attainment. The proposed project's GHG impacts would be less than significant.

Level of Significance Before Mitigation

Less than significant.

Mitigation Measures

No mitigation measures are necessary.

Impact GHG-2 Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Impact Analysis

The analysis contained above under Impact GHG-1 evaluates whether the project would not conflict with any applicable plan, policy, or regulation of an agency adopted to reduce the emissions of GHGs. As discussed under Impact GHG-1 above, the project would not conflict with any applicable plan, policy, or regulation of agency to reduce. As such, project impacts in this regard would be less than significant.

Level of Significance Before Mitigation

Less than significant.

Mitigation Measures

No mitigation measures are necessary.

Energy

Environmental Setting

The proposed project would be served with electricity provided by Pacific Gas and Electric Company (PG&E). In 2020, approximately 85 percent of the electricity PG&E supplied was from GHG-free sources including nuclear, large hydroelectric, and eligible renewable sources of energy.[25]

Methodology

The energy requirements for the proposed project were determined using the construction and operational estimates generated from the Air Quality Analysis (refer to Attachment A for related CalEEMod output files). The calculation worksheets for diesel fuel consumption rates for off-road construction equipment, gasoline and diesel fuel consumption rates for on-road vehicles during construction and operations are provided in Attachment C. Short-term construction energy consumption and long-term operational consumption are discussed separately below.

Short-Term Construction

Off-Road Equipment

The proposed project is anticipated to begin construction in June of 2024 and last approximately 24 months. Table 17 provides estimates of the project's construction fuel consumption from off-road construction equipment for the entire project, categorized by construction activity.

[25] Pacific Gas & Electric (PG&E). 2021. Corporate Sustainability Report 2021. Website: https://www.pgecorp.com/corp_responsibility/reports/2021/pf04_renewable_energy.html. Accessed October 11, 2023.

Table 17: Construction Off-Road Fuel Consumption

Project Component	Construction Activity	Fuel Consumption (gallons)
A-Z Truck Center Project Construction	Site Preparation	1,277
	Grading	4,620
	Paving	710
	Building Construction	16,190
	Architectural Coating	82
Total from Project Construction		**22,879**
Source: Energy Consumption Calculations (Attachment C).		

As shown in Table 17, off-road construction equipment usage associated with the proposed project would be estimated to consume approximately 22,879 gallons of diesel fuel over the entire construction period. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in other parts of the state. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region.

On-Road Vehicles

On-road vehicles for construction workers, vendors, and haulers would require fuel for travel to and from the site during construction. Table 18 provides an estimate of the total on-road vehicle fuel usage during construction.

Table 18: Construction On-Road Fuel Consumption

Project Component	Construction Activity	Total Annual Fuel Consumption (gallons)
A-Z Truck Center Project Construction	Site Preparation	240
	Grading	1,143
	Paving	461
	Building Construction	28,959
	Architectural Coating	466
Total from Project Construction		**31,269**
Source: Energy Consumption Calculations (Attachment C).		

As shown in Table 18, construction trips are estimated to consume approximately 31,269 gallons of gasoline and diesel fuel combined. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in other parts of the City of Chowchilla or the larger Madera County area. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region.

Long-Term Operations

Transportation Energy Demand

Table 19 provides an estimate of the daily and annual fuel consumed by vehicles traveling to and from the proposed project. These estimates were derived using the same assumptions used in the operational air quality analysis for the proposed project.

Table 19: Long-Term Operational Vehicle Fuel Consumption

Vehicle Type	Percent of Vehicle Trips	Daily VMT	Annual VMT	Average Fuel Economy (miles/ gallon)[1]	Total Daily Fuel Consumption (gallons)	Total Annual Fuel Consumption (gallons)
Passenger Cars (LDA)	16.16	12,944	4,724,456	30.44	425.2	155,213
Light Trucks and Medium Duty Vehicles (LDT1, LDT2, MDV)	52.91	42,377	15,467,497	22.67	1869.3	682,288
Light-Heavy to Medium-Heavy Diesel Trucks (LHD1, LHD2, and MHDT)	7.31	5,854	2,136,688	11.62	503.9	183,936
Heavy-Heavy Diesel Trucks (HHDT)	22.59	18,090	6,602,860	6.26	2888.6	1,054,324
Motorcycles (MCY)	0.04	28	10,361	40.54	0.7	256
Other (OBUS, UBUS, SBUS, MH)	1.00	801	292,348	7.43	107.8	39,344
Total	**100.0**	**80,094**	**29,234,210**	**—**	**5,796**	**2,115,361**

Notes:
Percent of Vehicle Trips and VMT based on values in the project-specific CalEEMod output files.
"Other" consists of buses and motor homes.
VMT = vehicle miles traveled
Source: Energy Consumption Calculations (Attachment C).

As shown above, daily vehicular fuel consumption is estimated to be 5,796 gallons of gasoline and diesel fuel combined. Annual consumption is estimated at 2,115,361 gallons, with HHD trucks accounting for 1,054,324 gallons of the total (see Attachment C).

In terms of land use planning decisions, the proposed project would constitute development within an established community and would not be opening a new geographical area for development such that it would draw mostly new trips or substantially lengthen existing trips. In addition, the vehicle fleet mix would be typical of other Truck Center businesses in the region. For these reasons, it would be expected that vehicular fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than for any other similar land use activities in the region.

Building Energy Demand

As shown in Table 20 and Table 21, the proposed project is estimated to demand 2,580,433 kilowatt-hours (kWh) of electricity and 6,901,686 kilo-British Thermal Units (kBTU) of natural gas, respectively, on an annual basis. The proposed project would be built according to code and would be subject to the latest building standards in effect at the time that building permits are issued.

Table 20: Long-Term Electricity Usage

Land Use	Total Electricity Demand (kWh/year)
Hotel	878,400
Fast Food Restaurant w/o Drive Thru	250,225
Convenience Market (24 hour)	750,833
Automobile Care Center	244,876
Parking Lot	410,777
Unenclosed Parking Structure	45,322
Other Non-Asphalt Surfaces	0
Other Asphalt Surfaces	0
Total Project	**2,580,433**

Notes:
kWh = kilowatt hour
The estimates above represent total estimated electricity consumption on an annual basis from operations of the proposed project.
Source: Energy Consumption Calculations (Attachment C).

Table 21: Long-Term Natural Gas Usage

Land Use	Total Natural Gas Demand (kBTU/year)
Hotel	4,928,827
Fast Food Restaurant w/o Drive Thru	700,189
Convenience Market (24 hour)	427,001
Automobile Care Center	845,669
Parking Lot	0
Unenclosed Parking Structure	0
Other Non-Asphalt Surfaces	0
Other Asphalt Surfaces	0
Total Project	**6,901,686**

Notes:
DU = Dwelling Units
kBTU = 1,000 British Thermal Units
Source: Energy Consumption Calculations (Attachment C).

Environmental Impact Analysis

This section discusses potential energy impacts associated with the proposed project and provides mitigation measures where necessary.

Impact EN-1 Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Impact Analysis

This impact addresses the energy consumption from both the short-term construction and long-term operations are discussed separately below.

Construction Energy Demand

As summarized in Table 17 and Table 18, the proposed project would require 22,879 gallons of diesel fuel for construction off-road equipment and 31,269 gallons of gasoline and diesel for on-road vehicles during construction. There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in other parts of the state. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than at other construction sites in the region, and as such, impacts would be less than significant.

Long-Term Energy Demand

Building Energy Demand

Buildings and infrastructure constructed pursuant to the proposed project would comply with the versions of CCR Titles 20 and 24, including California Green Building Standards (CALGreen), that are applicable at the time that building permits are issued. The proposed project is estimated to demand 2,580,433 kWh of electricity per year and 6,901,686 kBTU of natural gas per year (see Table 20 and Table 21). This would represent an increase in demand for electricity and natural gas compared to existing conditions, as the project site is currently undeveloped.

It would be expected that building energy consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than for any other similar buildings in the region. Current state regulatory requirements for new building construction contained in the CALGreen and Title 24 standards would increase energy efficiency and reduce energy demand in comparison to existing commercial/non-residential structures, and therefore would reduce actual environmental effects associated with energy use from the proposed project. Additionally, the CALGreen and Title 24 standards have increased efficiency standards through each update. The proposed project would be built in accordance with regulations in effect at the time building permits are issues and would generate on-site renewable energy from inclusion of solar panels at a later date.

Therefore, while the proposed project would result in increased electricity demand, the electricity would be consumed more efficiently and would be typical of other truck center

projects. If buildout of the project is delayed, compliance with future building code standards would result in increased energy efficiency.

Based on the above information, the proposed project would not result in the inefficient or wasteful consumption of electricity or natural gas, and impacts would be less than significant.

Transportation Energy Demands

The daily vehicular fuel consumption is estimated to be 5,796 gallons of gasoline and diesel fuel combined. Annual consumption is estimated at 2,115,361 gallons (see Table 19 and Attachment C). The proposed project would constitute development within an established community and would not be opening a new geographical area for development such that it would draw mostly new trips or substantially lengthen existing trips. The proposed project would be well-positioned to accommodate an existing population and anticipated growth in the City of Chowchilla. The project is located adjacent to existing Highway 99, Montgomery Lake Way and Genoa Lake Way. In addition, vehicles accessing the project site would be typical of other business uses in the region. For these reasons, it would be expected that vehicular fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than for any other similar land use activities in the region, and impacts would be less than significant.

Level of Significance Before Mitigation

Less than significant.

Mitigation Measures

No mitigation measures are necessary.

Impact EN-2 Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Impact Analysis

The City's General Plan includes strategies to promote energy efficiency in development in the City of Chowchilla. These General Plan policies require City action and are not applicable at the individual project level. However, the proposed project would not impede or conflict with any of the energy strategies outlined in the General Plan due to compliance with all local rules and regulations. The proposed project would comply with the versions of CCR Titles 20 and 24, including CALGreen, that are applicable at the time that building permits are issued and with all applicable City measures Part 11, Chapter 4 and 5, of the State's Title 24 energy efficiency standards establishes mandatory measures for residential and nonresidential buildings. Examples of these mandatory measure include solar, electric vehicle (EV) charging infrastructure, bicycle parking, energy efficiency, water efficiency and conservation, and material conservation and resource efficiency. The proposed project would be required to comply with mandatory measures; specifically, the project would comply with mandatory measures for non-residential development. Where applicable, the project would comply with more stringent local regulations. In addition, the proposed project would constitute development within an established community and would not be opening a new geographical area for development such that it would draw mostly new trips, or substantially lengthen existing trips. The proposed project would be well positioned to accommodate existing population. The project is located at the southwestern edge of the City of Chowchilla. The area to the east, southeast and northeast of the project site are primarily residences, with most of the City of Chowchilla over one (1) mile to the northeast. The rest of the project is surrounded by farmland with a few scattered rural residences. The project would provide connectivity within the project site and to adjacent uses. Compliance with these aforementioned mandatory measures and project design features would ensure that the proposed project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, operational energy efficiency and renewable energy standards consistency impacts would be less than significant.

For the above reasons, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and impacts would be less than significant.

Level of Significance Before Mitigation

Less than significant.

Mitigation Measures

No mitigation measures are necessary.

Attachments:

Attachment A – CalEEMod Output and Additional Supporting Information

Attachment B – Health Risk Assessments

Attachment C – Energy Consumption Calculations

ATTACHMENT A
CalEEMod Output and Additional Supporting Information

CalEEMod Output and Additional Supporting Information

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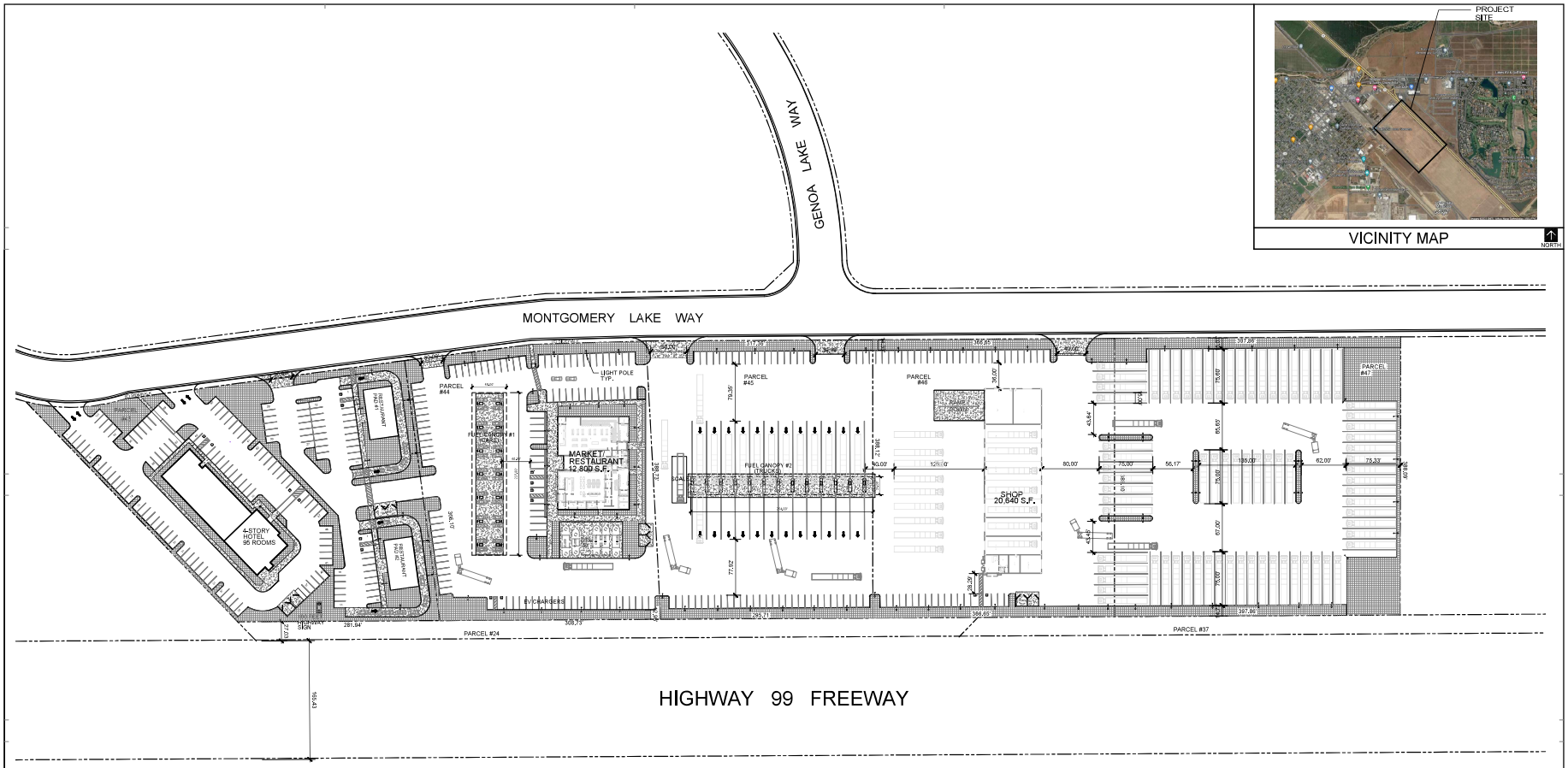
A-Z Truck Center Project—Chowchilla Construction Assumptions

Construction Phase			Num Days	
Phase Name	Start Date	End Date	Week	Num Days
Site Preparation	6/3/2024	6/20/2024	5	14
Grading	6/21/2024	8/16/2024	5	41
Paving	8/17/2024	9/25/2024	5	28
Building Construction	9/26/2024	4/22/2026	5	410
Architectural Coating	4/23/2026	6/1/2026	5	28

OffRoad Equipment					
Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37
Grading	Excavators	2	8	36	0.38
Grading	Graders	1	8	148	0.41
Grading	Rubber Tired Dozers	1	8	367	0.40
Grading	Scrapers	2	8	423	0.48
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37
Paving	Pavers	2	8	81	0.42
Paving	Paving Equipment	2	8	89	0.36
Paving	Rollers	2	8	36	0.38
Building Construction	Cranes	1	7	367	0.29
Building Construction	Forklifts	3	8	82	0.20
Building Construction	Generator Sets	1	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37
Building Construction	Welders	1	8	46	0.45
Architectural Coating	Air Compressors	1	6	37	0.48

Construction Trips	Worker Trip	Vendor Trip	Hauling Trip	Worker Trip	Vendor Trip	Hauling Trip
Phase Name	Number	Number	Number	Length	Length	Length
Site Preparation	17.50	8.00	0.00	7.1	12.8	20
Grading	20.00	8.00	3.05	7.1	12.8	20
Paving	15.00	8.00	0.00	7.1	12.8	20
Building Construction	78.23	31.83	0.00	7.1	12.8	20
Architectural Coating	15.65	8.00	0.00	7.1	12.8	20


Approximate Project Location
Days Inn by Wyndham Chowchilla Gateway to Y...
Taco El Grullense
SureStay By Best Western Chowchilla Yosemite
Joe's Premium Car Wash
Cornerstone Community Church
Avenue 26
Holiday Inn Express & Suites Chowchilla - Yos...
Save Mart
Steves Chevrolet of Chowchilla
Arena RV Park
PACIFIC AUTO CENTER
Conadria Ave
Bidan Ave
Cordelia Ave
Fig Tree Rd
Rd 16 1/2
Golden State Hwy
Forge Strength Systems
California Corn Growers
Chowchilla Blvd
Taylor Farms
FillMyStore
Central Valley Concrete
Chowchilla-Madera County Fair and Event
Siotos Construction, Inc
H2O Solar Cleaning Company
Bella Vista St
Brentwood St
Emerald St
Edgewater St
Lake Shore Dr
Pheasant Ru



VICINITY MAP

NORTH

SITE PLAN

SCALE: 1"=60'-0"

MAINTENANCE SHOP

A.P.N. : 014-020-046 AREA = 3.00 ACRES
A.P.N. : 014-020-047 AREA = 3.54 ACRES

BUILDING AREA:
MAINTENANCE SHOP 20,640 S.F.
(258' X 80')

PARKING-REQUIRED

MAINTENANCE SHOP 60 SPACES
1 SPACE / 350 S.F.
20,640 S.F. / 350 = 65

PARKING-PROVIDED

PROPOSED STANDARD OFF-STREET PARKING	44	SPACES
PROPOSED VAN ACCESSIBLE	1	SPACE
PROPOSED STANDARD ACCESSIBLE	1	SPACES
TRUCKS MAINTENANCE PARKING	17	SPACES
TRUCKS STOP PARKING (LONG TERM)	77	SPACES
TOTAL	140	SPACES

ASPHALT PAVEMENT AREA 225,382 S.F.
CONCRETE WALK AREA 4,616 S.F.
LANDSCAPE AREA 34,244 S.F. = 12 %

CONVENIENCE STORE / RESTAURANT

PARKING-PROVIDED

PROPOSED STANDARD OFF-STREET PARKING	106	SPACES
PROPOSED VAN ACCESSIBLE	2	SPACE
PROPOSED STANDARD ACCESSIBLE	2	SPACES
EV CHARGERS	26	SPACES
TOTAL	136	SPACES

A.P.N. : 014-020-044 AREA = 2.82 ACRES
A.P.N. : 014-020-045 AREA = 2.73 ACRES

BUILDING AREA:
CONVENIENCE STORE / RESTAURANT 12,800 S.F.
(130' X 100')
FUEL CANOPY #1 (CARS) 10,896 S.F.
(48' X 227')
FUEL CANOPY #2 (TRUCKS) 6,350 S.F.
(25' X 254')

PARKING-REQUIRED

MARKET/CONVENIENT STORE 23 SPACES
1 SPACE / 350 S.F.
8000 S.F. / 350 = 23

RESTAURANT 33 SPACES
1 SPACE / 150 S.F.
5000 OCCUPANTS/3 = 33

ASPHALT PAVEMENT AREA 171,950 S.F.
CONCRETE WALK AREA 29,288 S.F.
LANDSCAPE AREA 27,720 S.F. = 11.5%

FAST FOOD RESTAURANTS

A.P.N. 014-020-043 SITE AREA = 3.15 ACRES

BUILDING AREA:
RESTAURANT PAD #1
FAST FOOD RESTAURANT WITH DRIVE THROUGH 2,800 S.F.
(40' X 70')
1 STALL PER 150 S.F.
2800 SEATS / 150 = 19 PARKING
RESTAURANT PAD #2
FAST FOOD RESTAURANT WITH DRIVE THROUGH 2,800 S.F.
(40' X 70')
1 STALL PER 150 S.F.
2800 SEATS / 150 = 19 PARKING

PARKING-REQUIRED 38 SPACES

PARKING-PROVIDED

PROPOSED STANDARD OFF-STREET PARKING	45	SPACES
PROPOSED VAN ACCESSIBLE	2	SPACE
PROPOSED STANDARD ACCESSIBLE	2	SPACES
TOTAL	49	SPACES

ASPHALT PAVEMENT AREA 71,592 S.F.
CONCRETE WALK AREA 13,053 S.F.
LANDSCAPE AREA 35,832 S.F. = 30%

HOTEL

PROPOSED USE: HOTEL
OCCUPANCY: R-2

HOTEL - 4 STORY
95 ROOMS

PARKING-REQUIRED:

HOTEL 1 STALL PER UNIT + 1 STALL PER 2 EMPLOYEES

HOTEL
95 ROOMS = 95 PARKING SPACES 99 EA.
8 EMPLOYEE / 2 = 4 PARKING SPACES

PARKING-PROVIDED:

HOTEL

PROPOSED STANDARD OFF-STREET PARKING	97	EA.
PROPOSED VAN ACCESSIBLE	2	EA.
PROPOSED STANDARD ACCESSIBLE	2	EA.
TOTAL	101	EA.

PROJECT DATA

A.P.N. : 014-020-043 AREA = 3.15 ACRES
A.P.N. : 014-020-044 AREA = 2.82 ACRES
A.P.N. : 014-020-045 AREA = 2.73 ACRES
A.P.N. : 014-020-046 AREA = 3.00 ACRES
A.P.N. : 014-020-047 AREA = 3.54 ACRES

PROPOSED USE: CONVENIENCE STORE/ RESTAURANT
MAINTENANCE/REPAIR SHOP //TRUCK STOP

ZONING: HC - HIGHWAY COMMERCIAL

PERMITTED USE IN HIGHWAY COMMERCIAL ZONE

P = USE PERMITTED BY RIGHT
C = USE REQUIRES CONDITIONAL USE PERMIT

A5- DRIVE-THRU PICK UP WINDOW MEETING ALL STANDARD OF 18.60.070	P
B10- RESTAURANT, LIMITED SERVICE WITHOUT DRIVE-THRU PICK UP WINDOW	P
I 8- CONVENIENCE STORE, WITH OR WITHOUT FUEL SALES	P
J 8- MOTOR VEHICLE REPAIR OR SERVICE, MAJOR	P
K 8-TRUCK STOP OR TRAVEL CENTER	C

EDMOND JACOBS ARCHITECT
2301 Coffee Road #B ◆ Modesto, CA 95354
Phone: 209-408-0674 ◆ edmond@ejarchitect.com
ARCHITECT:

CONSULTANT:

PROJECT ADDRESS:

A-Z TRUCK CENTER

MARKET/GAS, MAINTENANCE CENTER & TRUCK STOP

APN: 014-020-043 014-020-046
014-020-044 014-020-047
014-020-045

MONTGOMERY LAKE WAY
SHOWCHILLA, CA

CLIENT:
JASBIR SINGH

108 MEDINAH PLACE
SAN RAMON, CA 94583

DATE:	AUGUST 3, 2023
DRAWN:	ETJ
FILE:	366-22
PROJECT NO:	366-22
PERMIT NO:	

REVISIONS	BY

DESCRIPTION:
SITE PLAN

SHEET
SP-1

Exhibit 2 A
Chowchilla Travel Station
Total Trip Generation
Autos

PROJECT NAME	LAND USE	ITE Code	Units	Size	Daily Auto Trip Rate	Daily Trips	% AM Peak	AM Inbound	AM Peak Hour trips In	AM Peak Hour trips Out	% PM Peak	PM Inbound	PM Peak Hour Trips In	PM Peak Hour Trips Out
Chowchilla Travel Station	Convenience Store/ Gas Station	945	Vehicle Fueling Position(VFP)	28	345.75	9,681	9%	50%	442	442	8%	50%	377	377
Chowchilla Travel Station	Truck Stop	950	Vehicle Fueling Position(VFP)	12	0	0	0	0	0	0	0	0	0	0
Chowchilla Travel Station	Hotel	310	Rooms	95	6.38	606	7%	56%	22	18	7%	51%	22	20
Chowchilla Travel Station	Fast-Food Restaurants with Drive-through windows	934	1000 sf GFA	8.4	467.48	3,927	9.5%	51%	191	184	7%	52%	144	133
TOTAL TRIP GENERATION						14,214		Sub Total	656	644		Sub Total	543	530
								Total Trips	1300			Total Trips	1073	

Trucks

PROJECT NAME	LAND USE	ITE Code	Units	Size	Daily Truck Trip Rate	Daily Trips	% AM Peak	AM Inbound	AM Peak Hour Trips In	AM Peak Hour Trips Out	% PM Peak	PM Inbound	PM Peak Hour Trips In	PM Peak Hour Trips Out
Chowchilla Travel Station	Convenience Store/ Gas Station	945	Vehicle Fueling Position(VFP)	28	0	0	0	0	0	0	0	0	0	0
Chowchilla Travel Station	Truck Stop	950	Vehicle Fueling Position(VFP)	12	224	2,688	9%	49%	122	127	7%	53%	98	87
Chowchilla Travel Station	Hotel	310	Rooms	95	0	0	0	0	0	0	0	0	0	0
Chowchilla Travel Station	Fast-Food Restaurants with Drive-through windows	934	1000 sf GFA	8.4	1.964	16	18.2%	55%	2	1	4%	50%	0	1
TOTAL TRIP GENERATION						2,704		Sub Total	124	128		Sub Total	98	88
								Total Trips	252			Total Trips	186	

Passenger Car Equivalent(PCE)*

PROJECT NAME	LAND USE	ITE Code	Units	Size	Daily Trip Rate	Daily Trips	% AM Peak	AM Inbound	AM Peak Hour Trips In	AM Peak Hour Trips Out	% PM Peak	PM Inbound	PM Peak Hour Trips In	PM Peak Hour Trips Out
Chowchilla Travel Station	Convenience Store/ Gas Station	945	Vehicle Fueling Position(VFP)	28	N/A	9,681	N/A	N/A	442	442	N/A	N/A	377	377
Chowchilla Travel Station	Truck Stop	950	Vehicle Fueling Position(VFP)	12	N/A	8,064	N/A	N/A	366	381	N/A	N/A	294	261
Chowchilla Travel Station		310	Rooms	95	N/A	606	N/A	N/A	22	18	N/A	N/A	22	20
Chowchilla Travel Station	Fast-Food Restaurants with Drive-through windows	934	1000 sf GFA	8.4	N/A	3,976	N/A	N/A	196	188	N/A	N/A	145	136
TOTAL TRIP GENERATION						22,327		Sub Total	1027	1029		Sub Total	838	794
								Total Trips	2056			Total Trips	1631	

Note: For Passenger Car Equivalent one truck is considered as 3 equivalent autos

A-Z Truck Center Project Fleet Mix Adjustments for Regional Emission Estimates (2026)

Madera County 2026														**Total**
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.44957229	0.04269896	0.20525041	0.18285583	0.04031691	0.01035843	0.01068609	0.0253774	0.00063754	0.00022462	0.02494272	0.00215019	0.0049286	1.00000
Trucks Only*														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0	0	0	0	0.0403169	0.0103584	0.0106861	0.0253774	0	0	0	0	0	0.0867388
	0	0	0	0	0.04031691	0.01035843	0.01068609	-	0	0	0	0	0	0.0613614
Difference to be allocated	0.13863856													
Revised Truck Fleet	0	0	0	0	0.1314080	0.0337620	0.0348300	0.8000000	0	0	0	0	0	1
Passenger Cars														
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Default Light Duty Fleet Mix	0.44957229	0.04269896	0.20525041	0.1829	0	0	0	0	0	0	0	0	0	0.8803775
Difference to be allocated	0.1196225													
Revised Passenger Cars Fleet Mix 2026	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
	0.51066	0.04850	0.23314	0.20770	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000

A-Z Truck Center – Unmitigated Construction and Operations Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	A-Z Truck Center – Unmitigated Construction and Operations
Construction Start Date	6/3/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	25.8
Location	37.122511, -120.245331
County	Madera
City	Chowchilla
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2543
EDFZ	5
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 ft)	Special Landscape Area (sq ft)	Population	Description

Hotel	95.0	Room	< 0.005	137,940	11,944	—	—	95-room hotel
Fast Food Restaurant w/o Drive Thru	5.60	1000sqft	0.13	5,600	23,888	—	—	2 restaurant pads, 2,800 S.F. each
Convenience Market (24 hour)	12.8	1000sqft	0.29	12,800	27,720	—	—	Convenience Store/Restaurant
Automobile Care Center	20.6	1000sqft	0.47	20,640	34,244	—	—	Maintenance Shop
Parking Lot	469	1000sqft	10.8	0.00	0.00	—	—	—
Unenclosed Parking Structure	17.2	1000sqft	0.40	17,246	0.00	—	—	Fuel Canopy
Other Non-Asphalt Surfaces	47.0	1000sqft	1.08	0.00	0.00	—	—	—
Other Asphalt Surfaces	2.10	Acre	2.10	0.00	0.00	—	—	—
Other Asphalt Surfaces	1.00	Acre	1.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.45	3.75	36.4	33.8	0.06	1.60	8.03	9.63	1.48	4.00	5.48	—	7,258	7,258	0.28	0.22	5.34	7,309
2025	1.80	1.54	12.1	16.4	0.03	0.45	0.92	1.37	0.42	0.20	0.62	—	4,114	4,114	0.14	0.22	5.16	4,190

2026	1.70	36.2	11.4	16.0	0.03	0.40	0.92	1.32	0.37	0.20	0.57	—	4,082	4,082	0.12	0.22	4.71	4,154
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.86	1.59	13.1	16.3	0.03	0.52	0.92	1.44	0.48	0.20	0.68	—	4,098	4,098	0.14	0.22	0.14	4,168
2025	1.76	1.49	12.3	16.0	0.03	0.45	0.92	1.37	0.42	0.20	0.62	—	4,068	4,068	0.13	0.22	0.13	4,138
2026	1.66	1.41	11.6	15.7	0.03	0.40	0.92	1.32	0.37	0.20	0.57	—	4,037	4,037	0.13	0.22	0.12	4,104
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.10	1.03	8.45	8.69	0.02	0.35	0.95	1.31	0.33	0.36	0.69	—	1,961	1,961	0.07	0.07	0.59	1,984
2025	1.26	1.07	8.71	11.4	0.02	0.32	0.64	0.96	0.30	0.14	0.44	—	2,914	2,914	0.09	0.16	1.59	2,966
2026	0.38	3.09	2.62	3.56	0.01	0.09	0.22	0.31	0.08	0.05	0.13	—	928	928	0.03	0.05	0.48	945
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.20	0.19	1.54	1.59	< 0.005	0.06	0.17	0.24	0.06	0.07	0.13	—	325	325	0.01	0.01	0.10	328
2025	0.23	0.20	1.59	2.08	< 0.005	0.06	0.12	0.18	0.05	0.03	0.08	—	482	482	0.02	0.03	0.26	491
2026	0.07	0.56	0.48	0.65	< 0.005	0.02	0.04	0.06	0.02	0.01	0.02	—	154	154	< 0.005	0.01	0.08	156

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	66.6	61.9	155	459	1.70	2.22	104	106	2.11	26.6	28.7	—	176,041	176,041	4.52	15.4	555	181,307
Area	1.50	5.50	0.07	8.45	< 0.005	0.02	—	0.02	0.01	—	0.01	—	34.7	34.7	< 0.005	< 0.005	—	34.9
Energy	0.20	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	3,654	3,654	0.43	0.03	—	3,674
Water	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157

Total	68.3	67.5	157	469	1.71	2.38	104	106	2.26	26.6	28.9	139	179,744	179,883	18.9	15.5	7,712	192,686
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	60.2	55.3	170	407	1.61	2.21	104	106	2.11	26.5	28.7	—	166,642	166,642	5.20	15.8	14.4	171,491
Area	—	4.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.20	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	3,654	3,654	0.43	0.03	—	3,674
Water	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Total	60.4	59.5	171	409	1.62	2.36	104	106	2.25	26.5	28.8	139	170,310	170,449	19.6	15.9	7,172	182,835
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	54.7	51.2	113	287	0.95	1.26	57.7	59.0	1.20	14.8	16.0	—	97,926	97,926	3.93	9.42	134	100,965
Area	0.74	4.80	0.04	4.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Energy	0.20	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	3,654	3,654	0.43	0.03	—	3,674
Water	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Total	55.6	56.1	114	293	0.96	1.41	57.7	59.1	1.34	14.8	16.1	139	101,611	101,750	18.3	9.48	7,291	112,327
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.98	9.35	20.5	52.3	0.17	0.23	10.5	10.8	0.22	2.70	2.91	—	16,213	16,213	0.65	1.56	22.2	16,716
Area	0.14	0.88	0.01	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.84	2.84	< 0.005	< 0.005	—	2.85
Energy	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	605	605	0.07	0.01	—	608
Water	—	—	—	—	—	—	—	—	—	—	—	2.22	2.31	4.53	0.23	0.01	—	11.9
Waste	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.09	0.00	—	73.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,185	1,185
Total	10.1	10.2	20.9	53.4	0.17	0.26	10.5	10.8	0.25	2.70	2.94	23.1	16,823	16,846	3.04	1.57	1,207	18,597

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.38	1.26	< 0.005	0.06	—	0.06	0.06	—	0.06	—	203	203	0.01	< 0.005	—	204
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.6	33.6	< 0.005	< 0.005	—	33.7

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.05	0.69	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	102	102	0.01	< 0.005	0.41	104
Vendor	0.02	0.01	0.38	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	323	323	< 0.005	0.05	0.88	338
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	0.01	3.66
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.01	13.0
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	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.61
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.05	2.05	< 0.005	< 0.005	< 0.005	2.15
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. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.40	3.85	3.39	0.01	0.16	—	0.16	0.15	—	0.15	—	741	741	0.03	0.01	—	744
Dust From Material Movement	—	—	—	—	—	—	0.40	0.40	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.70	0.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	123	123	< 0.005	< 0.005	—	123
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.05	0.78	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	116	116	0.01	< 0.005	0.47	118
Vendor	0.02	0.01	0.38	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	323	323	< 0.005	0.05	0.88	338
Hauling	0.01	< 0.005	0.26	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	215	215	< 0.005	0.03	0.52	226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	12.1	12.1	< 0.005	< 0.005	0.02	12.3
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.3	36.3	< 0.005	0.01	0.04	37.9
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.1	24.1	< 0.005	< 0.005	0.03	25.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.03
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.02	6.02	< 0.005	< 0.005	0.01	6.28
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	4.19

3.5. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.56	5.56	< 0.005	< 0.005	< 0.005	5.83
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	2.13	2.49	< 0.005	0.09	—	0.09	0.09	—	0.09	—	455	455	0.02	< 0.005	—	457
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.10
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.39	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.4	75.4	< 0.005	< 0.005	—	75.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.41	0.20	3.07	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	455	455	0.03	0.02	1.84	463
Vendor	0.06	0.05	1.51	0.53	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,287	1,287	0.01	0.19	3.49	1,346
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	0.37	0.35	0.27	2.64	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	407	407	0.03	0.02	0.05	413
Vendor	0.06	0.04	1.62	0.54	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,288	1,288	0.01	0.19	0.09	1,343
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	0.07	0.04	0.49	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	79.7	79.7	0.01	< 0.005	0.15	81.1
Vendor	0.01	0.01	0.30	0.10	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	244	244	< 0.005	0.04	0.29	255
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	0.01	0.01	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.5	40.5	< 0.005	0.01	0.05	42.2
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

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.35	5.35	< 0.005	< 0.005	< 0.005	5.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.45	5.45	< 0.005	< 0.005	< 0.005	5.72
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	7.46	9.31	0.02	0.31	—	0.31	0.28	—	0.28	—	1,713	1,713	0.07	0.01	—	1,719

Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	3.85	3.85	< 0.005	< 0.005	< 0.005	4.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.36	1.70	< 0.005	0.06	—	0.06	0.05	—	0.05	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.37	0.19	2.82	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	446	446	0.03	0.02	1.68	454
Vendor	0.06	0.04	1.45	0.48	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,266	1,266	0.01	0.19	3.47	1,325
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	0.35	0.33	0.24	2.42	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	398	398	0.02	0.02	0.04	404
Vendor	0.06	0.03	1.55	0.49	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,266	1,266	0.01	0.19	0.09	1,322
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	0.25	0.24	0.15	1.71	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	294	294	0.01	0.01	0.52	299
Vendor	0.04	0.02	1.08	0.34	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	904	904	0.01	0.13	1.07	945
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	0.05	0.04	0.03	0.31	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.6	48.6	< 0.005	< 0.005	0.09	49.4
Vendor	0.01	< 0.005	0.20	0.06	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	150	150	< 0.005	0.02	0.18	156
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

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.24	5.24	< 0.005	< 0.005	< 0.005	5.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.34	5.34	< 0.005	< 0.005	< 0.005	5.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	2.16	2.84	0.01	0.08	—	0.08	0.08	—	0.08	—	525	525	0.02	< 0.005	—	527
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.39	0.52	< 0.005	0.02	—	0.02	0.01	—	0.01	—	87.0	87.0	< 0.005	< 0.005	—	87.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.35	0.17	2.59	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	436	436	0.01	0.02	1.54	444
Vendor	0.05	0.04	1.38	0.44	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,243	1,243	0.01	0.18	3.17	1,299
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	0.33	0.31	0.21	2.23	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	390	390	0.02	0.02	0.04	396
Vendor	0.05	0.03	1.48	0.45	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,244	1,244	0.01	0.18	0.08	1,297
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	0.07	0.04	0.48	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	88.2	88.2	< 0.005	< 0.005	0.15	89.7
Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	273	273	< 0.005	0.04	0.30	284
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	—	14.6	14.6	< 0.005	< 0.005	0.02	14.9
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.1	45.1	< 0.005	0.01	0.05	47.1
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

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.60	0.77	< 0.005	0.03	—	0.03	0.03	—	0.03	—	116	116	< 0.005	< 0.005	—	116
Paving	—	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.3
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.04	0.59	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87.3	87.3	0.01	< 0.005	0.35	88.9
Vendor	0.02	0.01	0.38	0.13	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	323	323	< 0.005	0.05	0.88	338
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	0.01	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.17	6.17	< 0.005	< 0.005	0.01	6.28
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.8	24.8	< 0.005	< 0.005	0.03	25.9
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	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.04
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.11	4.11	< 0.005	< 0.005	< 0.005	4.29
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. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	36.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.24	5.24	< 0.005	< 0.005	< 0.005	5.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.2	10.2	< 0.005	< 0.005	—	10.3
Architectural Coatings	—	2.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.70	1.70	< 0.005	< 0.005	—	1.70
Architectural Coatings	—	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.03	0.52	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87.3	87.3	< 0.005	< 0.005	0.31	88.8
Vendor	0.01	0.01	0.35	0.11	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	312	312	< 0.005	0.04	0.80	326
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	0.01	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	0.01	6.28
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.0	24.0	< 0.005	< 0.005	0.03	25.0
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	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.04
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.97	3.97	< 0.005	< 0.005	< 0.005	4.14
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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	1.81	1.72	0.98	15.4	0.04	0.02	3.51	3.52	0.01	0.88	0.90	—	3,922	3,922	0.12	0.10	13.1	3,969
Fast Food Restaurant w/o Drive Thru	11.8	11.2	6.32	100	0.25	0.10	22.7	22.8	0.09	5.72	5.81	—	25,418	25,418	0.77	0.67	84.6	25,722
Convenience Market (24 hour)	48.0	45.1	42.8	304	0.73	0.69	57.3	58.0	0.65	14.5	15.2	—	74,620	74,620	2.87	3.79	262	76,084
Automobile Care Center	5.09	3.96	105	39.2	0.68	1.41	20.3	21.7	1.35	5.46	6.81	—	72,080	72,080	0.76	10.9	195	75,532
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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

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	66.6	61.9	155	459	1.70	2.22	104	106	2.11	26.6	28.7	—	176,041	176,041	4.52	15.4	555	181,307
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	1.68	1.58	1.22	12.9	0.03	0.02	3.51	3.52	0.01	0.88	0.90	—	3,520	3,520	0.15	0.12	0.34	3,559
Fast Food Restaurant w/o Drive Thru	10.9	10.2	7.92	83.4	0.23	0.10	22.7	22.8	0.09	5.72	5.81	—	22,808	22,808	0.96	0.78	2.19	23,066
Convenience Market (24 hour)	43.0	39.9	48.9	272	0.68	0.69	57.3	58.0	0.65	14.5	15.2	—	68,975	68,975	3.34	4.07	6.81	70,278
Automobile Care Center	4.65	3.59	112	39.0	0.67	1.41	20.1	21.5	1.34	5.41	6.76	—	71,339	71,339	0.74	10.8	5.04	74,588
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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
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	60.2	55.3	170	407	1.61	2.21	104	106	2.11	26.5	28.7	—	166,642	166,642	5.20	15.8	14.4	171,491
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.31	0.29	0.20	2.36	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	601	601	0.02	0.02	0.93	608

Fast Food Restaurant w/o Drive Thru	1.89	1.80	0.93	10.8	0.02	0.01	2.24	2.25	0.01	0.56	0.57	—	2,190	2,190	0.13	0.09	3.32	2,223
Convenience Market (24 hour)	7.07	6.71	5.52	33.0	0.07	0.07	5.65	5.72	0.07	1.43	1.50	—	6,565	6,565	0.41	0.41	10.3	6,709
Automobile Care Center	0.70	0.55	13.9	6.19	0.07	0.14	2.01	2.15	0.14	0.54	0.68	—	6,857	6,857	0.09	1.04	7.65	7,176
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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
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	9.98	9.35	20.5	52.3	0.17	0.23	10.5	10.8	0.22	2.70	2.91	—	16,213	16,213	0.65	1.56	22.2	16,716

4.2. Energy

4.2.1. Electricity Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	491	491	0.08	0.01	—	496
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.02	< 0.005	—	141
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	420	420	0.07	0.01	—	424
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	137	137	0.02	< 0.005	—	138
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	—	232
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	25.3	25.3	< 0.005	< 0.005	—	25.6
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,442	1,442	0.23	0.03	—	1,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	491	491	0.08	0.01	—	496

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.02	< 0.005	—	141
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	420	420	0.07	0.01	—	424
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	137	137	0.02	< 0.005	—	138
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	—	232
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	25.3	25.3	< 0.005	< 0.005	—	25.6
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,442	1,442	0.23	0.03	—	1,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	81.3	81.3	0.01	< 0.005	—	82.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	23.2	23.2	< 0.005	< 0.005	—	23.4
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	69.5	69.5	0.01	< 0.005	—	70.2

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	—	22.7	22.7	< 0.005	< 0.005	—	22.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	38.0	38.0	0.01	< 0.005	—	38.4
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	4.19	4.19	< 0.005	< 0.005	—	4.23
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	239	239	0.04	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.15	0.07	1.32	1.11	0.01	0.10	—	0.10	0.10	—	0.10	—	1,580	1,580	0.14	< 0.005	—	1,584
Fast Food Restaurant w/o Drive Thru	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	224	224	0.02	< 0.005	—	225
Convenience Market (24 hour)	0.01	0.01	0.11	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137

Automobile	0.02	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	271	271	0.02	< 0.005	—	272
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-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
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	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,212	2,212	0.20	< 0.005	—	2,218
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.15	0.07	1.32	1.11	0.01	0.10	—	0.10	0.10	—	0.10	—	1,580	1,580	0.14	< 0.005	—	1,584
Fast Food Restaurant w/o Drive Thru	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	224	224	0.02	< 0.005	—	225
Convenience Market (24 hour)	0.01	0.01	0.11	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137
Automobile Care Center	0.02	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	271	271	0.02	< 0.005	—	272
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-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
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	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,212	2,212	0.20	< 0.005	—	2,218
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	262	262	0.02	< 0.005	—	262
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.3
Convenience Market (24 hour)	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.7	22.7	< 0.005	< 0.005	—	22.7
Automobile Care Center	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.9	44.9	< 0.005	< 0.005	—	45.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-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

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	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	366	366	0.03	< 0.005	—	367

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.50	1.39	0.07	8.45	< 0.005	0.02	—	0.02	0.01	—	0.01	—	34.7	34.7	< 0.005	< 0.005	—	34.9
Total	1.50	5.50	0.07	8.45	< 0.005	0.02	—	0.02	0.01	—	0.01	—	34.7	34.7	< 0.005	< 0.005	—	34.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.14	0.12	0.01	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.84	2.84	< 0.005	< 0.005	—	2.85
Total	0.14	0.88	0.01	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.84	2.84	< 0.005	< 0.005	—	2.85

4.4. Water Emissions by Land Use

4.4.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.62	4.54	9.16	0.47	0.01	—	24.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.26	3.39	6.65	0.33	0.01	—	17.4
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	1.82	2.07	3.89	0.19	< 0.005	—	9.89

Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.72	3.96	7.68	0.38	0.01	—	20.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.62	4.54	9.16	0.47	0.01	—	24.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.26	3.39	6.65	0.33	0.01	—	17.4
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	1.82	2.07	3.89	0.19	< 0.005	—	9.89
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.72	3.96	7.68	0.38	0.01	—	20.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unenclos Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.76	0.75	1.52	0.08	< 0.005	—	4.04
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.54	0.56	1.10	0.06	< 0.005	—	2.88
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	0.30	0.34	0.64	0.03	< 0.005	—	1.64
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	0.62	0.66	1.27	0.06	< 0.005	—	3.31
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	2.22	2.31	4.53	0.23	0.01	—	11.9

4.5. Waste Emissions by Land Use

4.5.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	28.0	0.00	28.0	2.80	0.00	—	98.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	34.8	0.00	34.8	3.47	0.00	—	122
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.07	0.00	—	72.5
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	42.5	0.00	42.5	4.25	0.00	—	149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	28.0	0.00	28.0	2.80	0.00	—	98.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	34.8	0.00	34.8	3.47	0.00	—	122
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.07	0.00	—	72.5
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	42.5	0.00	42.5	4.25	0.00	—	149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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

Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.64	0.00	4.64	0.46	0.00	—	16.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.1
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	3.43	0.00	3.43	0.34	0.00	—	12.0
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	7.04	0.00	7.04	0.70	0.00	—	24.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.09	0.00	—	73.0

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	216	216
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.75	8.75
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,279	4,279
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	216	216
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.75	8.75
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,279	4,279

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45	1.45
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	439	439
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	708	708
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,185	1,185

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)

Equipment Type	TOG	ROG	NOx	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. 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	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	6/3/2024	6/20/2024	5.00	14.0	—
Grading	Grading	6/21/2024	8/16/2024	5.00	41.0	—
Building Construction	Building Construction	9/26/2024	4/22/2026	5.00	410	—
Paving	Paving	8/17/2024	9/25/2024	5.00	28.0	—
Architectural Coating	Architectural Coating	4/23/2026	6/1/2026	5.00	28.0	—

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	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

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	7.10	LDA,LDT1,LDT2

Site Preparation	Vendor	8.00	12.8	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	2.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	7.10	LDA,LDT1,LDT2
Grading	Vendor	8.00	12.8	HHDT,MHDT
Grading	Hauling	3.05	20.0	HHDT
Grading	Onsite truck	2.00	0.25	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	78.2	7.10	LDA,LDT1,LDT2
Building Construction	Vendor	31.8	12.8	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	2.00	0.25	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	7.10	LDA,LDT1,LDT2
Paving	Vendor	8.00	12.8	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	2.00	0.25	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	15.6	7.10	LDA,LDT1,LDT2
Architectural Coating	Vendor	8.00	12.8	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	2.00	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	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)
Architectural Coating	0.00	0.00	266,246	88,576	40,102

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	21.0	0.00	—
Grading	—	1,000	123	0.00	—
Paving	0.00	0.00	0.00	0.00	15.3

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Hotel	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Convenience Market (24 hour)	0.00	0%

Automobile Care Center	0.00	0%
Parking Lot	10.8	100%
Unenclosed Parking Structure	0.40	100%
Other Non-Asphalt Surfaces	1.08	0%
Other Asphalt Surfaces	2.10	100%
Other Asphalt Surfaces	1.00	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
Hotel	606	606	606	221,190	5,074	5,074	5,074	1,852,021
Fast Food Restaurant w/o Drive Thru	3,927	3,927	3,927	1,433,355	12,132	32,881	32,881	6,592,070
Convenience Market (24 hour)	9,681	9,681	9,681	3,533,565	29,909	81,059	81,059	16,251,040
Automobile Care Center	2,704	2,704	2,704	986,960	8,354	22,641	22,641	4,539,078
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	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
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

5.10.2. 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	266,246	88,576	40,102

5.10.3. Landscape Equipment

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)
Hotel	878,400	204	0.0330	0.0040	4,928,827

Fast Food Restaurant w/o Drive Thru	250,225	204	0.0330	0.0040	700,189
Convenience Market (24 hour)	750,833	204	0.0330	0.0040	427,001
Automobile Care Center	244,876	204	0.0330	0.0040	845,669
Parking Lot	410,777	204	0.0330	0.0040	0.00
Unenclosed Parking Structure	45,322	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
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)
Hotel	2,409,843	152,599
Fast Food Restaurant w/o Drive Thru	1,699,789	305,197
Convenience Market (24 hour)	948,128	354,156
Automobile Care Center	1,941,834	437,508
Parking Lot	0.00	0.00
Unenclosed Parking Structure	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	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)

Hotel	52.0	—
Fast Food Restaurant w/o Drive Thru	64.5	—
Convenience Market (24 hour)	38.5	—
Automobile Care Center	78.8	—
Parking Lot	0.00	—
Unenclosed Parking Structure	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Other Asphalt Surfaces	0.00	—
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
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

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

5.16. 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	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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

8. User Changes to Default Data

Screen	Justification
Land Use	Proposed land uses based on project description and site plan. Additional acre of "other asphalt surfaces" to account for off-site improvements (driveways and water/sewer connection from Montgomery; road, curb, gutter, and sidewalk)
Construction: Construction Phases	Earliest construction start date: June 2024 Approximately 2-year total construction duration based on applicant-provided information. No demolition
Construction: Trips and VMT	—
Operations: Vehicle Data	Project-specific trip rates, consistent with the Traffic Impact Study prepared VRPA Technologies, Inc. Chowchilla Travel Station - Transportation Analysis Scoping Document, dated October 13, 2023. 14,214 daily auto trips and 2,704 daily truck trips.
Operations: Fleet Mix	Trucks only for diesel fueling, passenger only fleet mix for drive-thru and hotel uses, default fleet mix retained for the main convenience store land use. Passenger only fleet mix based on default fleet mix for Madera County in the 2026 operational year. See supporting information for fleet mix calculations.

A-Z Truck Center – Localized Assessment Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	A-Z Truck Center – Localized Assessment
Construction Start Date	6/3/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	25.8
Location	37.122511, -120.245331
County	Madera
City	Chowchilla
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2543
EDFZ	5
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 ft)	Special Landscape Area (sq ft)	Population	Description

Hotel	95.0	Room	< 0.005	137,940	11,944	—	—	95-room hotel
Fast Food Restaurant w/o Drive Thru	5.60	1000sqft	0.13	5,600	23,888	—	—	2 restaurant pads, 2,800 S.F. each
Convenience Market (24 hour)	12.8	1000sqft	0.29	12,800	27,720	—	—	Convenience Store/Restaurant
Automobile Care Center	20.6	1000sqft	0.47	20,640	34,244	—	—	Maintenance Shop
Parking Lot	469	1000sqft	10.8	0.00	0.00	—	—	—
Unenclosed Parking Structure	17.2	1000sqft	0.40	17,246	0.00	—	—	Fuel Canopy
Other Non-Asphalt Surfaces	47.0	1000sqft	1.08	0.00	0.00	—	—	—
Other Asphalt Surfaces	2.10	Acre	2.10	0.00	0.00	—	—	—
Other Asphalt Surfaces	1.00	Acre	1.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.43	3.74	36.1	33.2	0.06	1.60	7.86	9.46	1.47	3.96	5.43	—	6,648	6,648	0.27	0.06	0.27	6,673
2025	1.73	1.50	10.9	14.2	0.02	0.43	0.23	0.66	0.40	0.03	0.43	—	2,532	2,532	0.12	0.04	0.26	2,547

2026	1.64	36.2	10.3	14.1	0.02	0.38	0.23	0.61	0.35	0.03	0.38	—	2,529	2,529	0.12	0.04	0.24	2,544
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.80	1.55	11.8	14.7	0.02	0.50	0.23	0.73	0.46	0.03	0.49	—	2,533	2,533	0.12	0.04	0.01	2,548
2025	1.69	1.45	11.0	14.6	0.02	0.43	0.23	0.66	0.40	0.03	0.43	—	2,530	2,530	0.12	0.04	0.01	2,545
2026	1.60	1.37	10.4	14.4	0.02	0.38	0.23	0.61	0.35	0.03	0.38	—	2,527	2,527	0.12	0.04	0.01	2,542
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.08	1.02	8.10	8.26	0.01	0.35	0.78	1.13	0.32	0.32	0.64	—	1,551	1,551	0.07	0.02	0.03	1,558
2025	1.21	1.04	7.82	10.2	0.02	0.31	0.15	0.46	0.28	0.02	0.30	—	1,807	1,807	0.09	0.03	0.08	1,818
2026	0.37	3.08	2.34	3.22	0.01	0.08	0.06	0.15	0.08	0.01	0.09	—	567	567	0.03	0.01	0.02	570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.20	0.19	1.48	1.51	< 0.005	0.06	0.14	0.21	0.06	0.06	0.12	—	257	257	0.01	< 0.005	< 0.005	258
2025	0.22	0.19	1.43	1.87	< 0.005	0.06	0.03	0.08	0.05	< 0.005	0.06	—	299	299	0.01	< 0.005	0.01	301
2026	0.07	0.56	0.43	0.59	< 0.005	0.02	0.01	0.03	0.01	< 0.005	0.02	—	93.8	93.8	< 0.005	< 0.005	< 0.005	94.4

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	53.1	51.4	53.9	137	0.16	0.20	6.20	6.41	0.19	1.59	1.78	—	16,859	16,859	2.55	2.54	33.1	17,713
Area	1.50	5.50	0.07	8.45	< 0.005	0.02	—	0.02	0.01	—	0.01	—	34.7	34.7	< 0.005	< 0.005	—	34.9
Energy	0.20	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	3,654	3,654	0.43	0.03	—	3,674
Water	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157

Total	54.9	57.1	55.8	147	0.17	0.36	6.20	6.56	0.34	1.59	1.93	139	20,562	20,701	16.9	2.61	7,190	29,092
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.8	44.8	58.7	174	0.16	0.21	6.19	6.40	0.19	1.59	1.78	—	16,478	16,478	3.29	2.69	0.86	17,364
Area	—	4.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.20	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	3,654	3,654	0.43	0.03	—	3,674
Water	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Total	47.1	49.0	60.5	176	0.17	0.35	6.19	6.54	0.34	1.59	1.92	139	20,146	20,286	17.7	2.76	7,158	28,708
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	47.6	45.8	56.0	151	0.16	0.20	6.10	6.31	0.19	1.56	1.76	—	16,566	16,566	2.92	2.60	14.3	17,429
Area	0.74	4.80	0.04	4.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Energy	0.20	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	3,654	3,654	0.43	0.03	—	3,674
Water	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Waste	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Total	48.6	50.7	57.9	157	0.17	0.35	6.10	6.46	0.34	1.56	1.90	139	20,251	20,391	17.3	2.67	7,171	28,790
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.70	8.35	10.2	27.6	0.03	0.04	1.11	1.15	0.04	0.29	0.32	—	2,743	2,743	0.48	0.43	2.37	2,886
Area	0.14	0.88	0.01	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.84	2.84	< 0.005	< 0.005	—	2.85
Energy	0.04	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	605	605	0.07	0.01	—	608
Water	—	—	—	—	—	—	—	—	—	—	—	2.22	2.31	4.53	0.23	0.01	—	11.9
Waste	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.09	0.00	—	73.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,185	1,185
Total	8.87	9.25	10.6	28.7	0.03	0.06	1.11	1.18	0.06	0.29	0.35	23.1	3,353	3,376	2.87	0.44	1,187	4,767

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.38	1.26	< 0.005	0.06	—	0.06	0.06	—	0.06	—	203	203	0.01	< 0.005	—	204
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.6	33.6	< 0.005	< 0.005	—	33.7

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.02	0.22	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.03	10.8
Vendor	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.6	21.6	< 0.005	< 0.005	0.03	22.6
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.40
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
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	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.14
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. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.40	3.85	3.39	0.01	0.16	—	0.16	0.15	—	0.15	—	741	741	0.03	0.01	—	744
Dust From Material Movement	—	—	—	—	—	—	0.40	0.40	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.70	0.62	< 0.005	0.03	—	0.03	0.03	—	0.03	—	123	123	< 0.005	< 0.005	—	123
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.02	0.25	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.03	12.4
Vendor	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.6	21.6	< 0.005	< 0.005	0.03	22.6
Hauling	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.25	1.25	< 0.005	< 0.005	< 0.005	1.33
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.43	2.43	< 0.005	< 0.005	< 0.005	2.54
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

3.5. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.56	5.56	< 0.005	< 0.005	< 0.005	5.83
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	2.13	2.49	< 0.005	0.09	—	0.09	0.09	—	0.09	—	455	455	0.02	< 0.005	—	457
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.10
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.39	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.4	75.4	< 0.005	< 0.005	—	75.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.38	0.08	0.96	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	45.6	45.6	0.02	0.01	0.13	48.5
Vendor	0.03	0.02	0.38	0.25	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	85.8	85.8	< 0.005	0.01	0.14	89.8
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.32	0.10	1.32	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	42.9	42.9	0.02	0.01	< 0.005	45.8
Vendor	0.02	0.02	0.41	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	86.6	86.6	< 0.005	0.01	< 0.005	90.5
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	0.06	0.06	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.24	8.24	< 0.005	< 0.005	0.01	8.79
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	17.1
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	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.37	1.37	< 0.005	< 0.005	< 0.005	1.46
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.83
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

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.35	5.35	< 0.005	< 0.005	< 0.005	5.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.45	5.45	< 0.005	< 0.005	< 0.005	5.72
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	7.46	9.31	0.02	0.31	—	0.31	0.28	—	0.28	—	1,713	1,713	0.07	0.01	—	1,719

Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.12	0.12	< 0.005	0.01	0.01	—	3.85	3.85	< 0.005	< 0.005	< 0.005	4.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.36	1.70	< 0.005	0.06	—	0.06	0.05	—	0.05	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.35	0.07	0.89	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	44.6	44.6	0.02	0.01	0.12	47.5
Vendor	0.02	0.02	0.38	0.25	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	84.3	84.3	< 0.005	0.01	0.14	88.3
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	0.32	0.31	0.09	1.23	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	42.0	42.0	0.02	0.01	< 0.005	44.8
Vendor	0.02	0.02	0.40	0.26	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	85.1	85.1	< 0.005	0.01	< 0.005	89.0
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	0.23	0.22	0.06	0.73	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	30.3	30.3	0.01	0.01	0.04	32.4
Vendor	0.02	0.01	0.28	0.18	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	60.5	60.5	< 0.005	0.01	0.04	63.2
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.02	5.02	< 0.005	< 0.005	0.01	5.36
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.5
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

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.24	5.24	< 0.005	< 0.005	< 0.005	5.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.34	5.34	< 0.005	< 0.005	< 0.005	5.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	2.16	2.84	0.01	0.08	—	0.08	0.08	—	0.08	—	525	525	0.02	< 0.005	—	527
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.39	0.52	< 0.005	0.02	—	0.02	0.01	—	0.01	—	87.0	87.0	< 0.005	< 0.005	—	87.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.33	0.07	0.83	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	43.7	43.7	0.01	0.01	0.11	46.4
Vendor	0.02	0.02	0.37	0.25	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	82.8	82.8	< 0.005	0.01	0.12	86.6
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.29	0.08	1.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	41.0	41.0	0.02	0.01	< 0.005	43.9
Vendor	0.02	0.02	0.40	0.26	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	83.6	83.6	< 0.005	0.01	< 0.005	87.4
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	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	0.01	9.72
Vendor	< 0.005	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.01	19.1
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	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.61
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.02	3.02	< 0.005	< 0.005	< 0.005	3.15
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

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.60	0.77	< 0.005	0.03	—	0.03	0.03	—	0.03	—	116	116	< 0.005	< 0.005	—	116
Paving	—	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.3
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.74	8.74	< 0.005	< 0.005	0.02	9.30
Vendor	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.6	21.6	< 0.005	< 0.005	0.03	22.6
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.68
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.66	1.66	< 0.005	< 0.005	< 0.005	1.74
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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
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. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	36.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	5.24	5.24	< 0.005	< 0.005	< 0.005	5.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.2	10.2	< 0.005	< 0.005	—	10.3
Architectural Coatings	—	2.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.70	1.70	< 0.005	< 0.005	—	1.70
Architectural Coatings	—	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.17	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.73	8.73	< 0.005	< 0.005	0.02	9.29
Vendor	0.01	< 0.005	0.09	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.8	20.8	< 0.005	< 0.005	0.03	21.8
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.68
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.60	1.60	< 0.005	< 0.005	< 0.005	1.68
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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	1.65	1.61	0.42	4.43	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	332	332	0.09	0.05	0.78	349
Fast Food Restaurant w/o Drive Thru	10.7	10.4	2.71	28.7	0.02	0.02	1.36	1.38	0.02	0.34	0.36	—	2,152	2,152	0.58	0.31	5.05	2,265
Convenience Market (24 hour)	38.0	37.1	12.3	76.2	0.06	0.08	3.42	3.51	0.08	0.87	0.95	—	6,356	6,356	1.50	0.92	15.7	6,685
Automobile Care Center	2.84	2.30	38.5	27.4	0.08	0.09	1.21	1.31	0.09	0.33	0.42	—	8,019	8,019	0.37	1.26	11.6	8,414
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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

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	53.1	51.4	53.9	137	0.16	0.20	6.20	6.41	0.19	1.59	1.78	—	16,859	16,859	2.55	2.54	33.1	17,713
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	1.53	1.47	0.50	6.04	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.06	—	311	311	0.12	0.05	0.02	331
Fast Food Restaurant w/o Drive Thru	9.93	9.55	3.26	39.1	0.02	0.02	1.36	1.38	0.02	0.34	0.36	—	2,018	2,018	0.80	0.35	0.13	2,143
Convenience Market (24 hour)	32.9	31.8	14.0	101	0.06	0.08	3.42	3.51	0.08	0.87	0.95	—	6,082	6,082	2.01	1.02	0.41	6,435
Automobile Care Center	2.48	1.97	40.9	28.2	0.08	0.10	1.20	1.30	0.09	0.32	0.42	—	8,067	8,067	0.36	1.27	0.30	8,455
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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
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	46.8	44.8	58.7	174	0.16	0.21	6.19	6.40	0.19	1.59	1.78	—	16,478	16,478	3.29	2.69	0.86	17,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.28	0.27	0.08	0.92	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	52.3	52.3	0.02	0.01	0.06	55.3

Fast Food Restaurant w/o Drive Thru	1.80	1.74	0.54	5.97	< 0.005	< 0.005	0.24	0.25	< 0.005	0.06	0.07	—	339	339	0.11	0.05	0.36	358
Convenience Market (24 hour)	6.13	5.95	2.37	15.6	0.01	0.02	0.61	0.63	0.01	0.16	0.17	—	1,016	1,016	0.29	0.16	1.12	1,072
Automobile Care Center	0.49	0.39	7.23	5.09	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	1,335	1,335	0.06	0.21	0.83	1,400
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-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
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	8.70	8.35	10.2	27.6	0.03	0.04	1.11	1.15	0.04	0.29	0.32	—	2,743	2,743	0.48	0.43	2.37	2,886

4.2. Energy

4.2.1. Electricity Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	491	491	0.08	0.01	—	496
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.02	< 0.005	—	141
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	420	420	0.07	0.01	—	424
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	137	137	0.02	< 0.005	—	138
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	—	232
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	25.3	25.3	< 0.005	< 0.005	—	25.6
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,442	1,442	0.23	0.03	—	1,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	491	491	0.08	0.01	—	496

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.02	< 0.005	—	141
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	420	420	0.07	0.01	—	424
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	137	137	0.02	< 0.005	—	138
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	—	232
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	25.3	25.3	< 0.005	< 0.005	—	25.6
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,442	1,442	0.23	0.03	—	1,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	81.3	81.3	0.01	< 0.005	—	82.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	23.2	23.2	< 0.005	< 0.005	—	23.4
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	69.5	69.5	0.01	< 0.005	—	70.2

Automob Care Center	—	—	—	—	—	—	—	—	—	—	—	—	22.7	22.7	< 0.005	< 0.005	—	22.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	38.0	38.0	0.01	< 0.005	—	38.4
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	4.19	4.19	< 0.005	< 0.005	—	4.23
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	239	239	0.04	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.15	0.07	1.32	1.11	0.01	0.10	—	0.10	0.10	—	0.10	—	1,580	1,580	0.14	< 0.005	—	1,584
Fast Food Restaurant w/o Drive Thru	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	224	224	0.02	< 0.005	—	225
Convenience Market (24 hour)	0.01	0.01	0.11	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137

Automobile	0.02	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	271	271	0.02	< 0.005	—	272
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-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
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	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,212	2,212	0.20	< 0.005	—	2,218
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.15	0.07	1.32	1.11	0.01	0.10	—	0.10	0.10	—	0.10	—	1,580	1,580	0.14	< 0.005	—	1,584
Fast Food Restaurant w/o Drive Thru	0.02	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	224	224	0.02	< 0.005	—	225
Convenience Market (24 hour)	0.01	0.01	0.11	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	137
Automobile Care Center	0.02	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	271	271	0.02	< 0.005	—	272
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-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
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	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,212	2,212	0.20	< 0.005	—	2,218
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	262	262	0.02	< 0.005	—	262
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.3
Convenience Market (24 hour)	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.7	22.7	< 0.005	< 0.005	—	22.7
Automobile Care Center	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.9	44.9	< 0.005	< 0.005	—	45.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-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

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	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	366	366	0.03	< 0.005	—	367

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.50	1.39	0.07	8.45	< 0.005	0.02	—	0.02	0.01	—	0.01	—	34.7	34.7	< 0.005	< 0.005	—	34.9
Total	1.50	5.50	0.07	8.45	< 0.005	0.02	—	0.02	0.01	—	0.01	—	34.7	34.7	< 0.005	< 0.005	—	34.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.14	0.12	0.01	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.84	2.84	< 0.005	< 0.005	—	2.85
Total	0.14	0.88	0.01	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.84	2.84	< 0.005	< 0.005	—	2.85

4.4. Water Emissions by Land Use

4.4.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.62	4.54	9.16	0.47	0.01	—	24.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.26	3.39	6.65	0.33	0.01	—	17.4
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	1.82	2.07	3.89	0.19	< 0.005	—	9.89

Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.72	3.96	7.68	0.38	0.01	—	20.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.62	4.54	9.16	0.47	0.01	—	24.4
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.26	3.39	6.65	0.33	0.01	—	17.4
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	1.82	2.07	3.89	0.19	< 0.005	—	9.89
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	3.72	3.96	7.68	0.38	0.01	—	20.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unenclos Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	13.4	14.0	27.4	1.38	0.03	—	71.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.76	0.75	1.52	0.08	< 0.005	—	4.04
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.54	0.56	1.10	0.06	< 0.005	—	2.88
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	0.30	0.34	0.64	0.03	< 0.005	—	1.64
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	0.62	0.66	1.27	0.06	< 0.005	—	3.31
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	2.22	2.31	4.53	0.23	0.01	—	11.9

4.5. Waste Emissions by Land Use

4.5.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	28.0	0.00	28.0	2.80	0.00	—	98.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	34.8	0.00	34.8	3.47	0.00	—	122
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.07	0.00	—	72.5
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	42.5	0.00	42.5	4.25	0.00	—	149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	28.0	0.00	28.0	2.80	0.00	—	98.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	34.8	0.00	34.8	3.47	0.00	—	122
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.07	0.00	—	72.5
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	42.5	0.00	42.5	4.25	0.00	—	149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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

Total	—	—	—	—	—	—	—	—	—	—	—	126	0.00	126	12.6	0.00	—	441
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.64	0.00	4.64	0.46	0.00	—	16.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.1
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	3.43	0.00	3.43	0.34	0.00	—	12.0
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	7.04	0.00	7.04	0.70	0.00	—	24.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	20.9	0.00	20.9	2.09	0.00	—	73.0

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	216	216
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.75	8.75
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,279	4,279
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	216	216
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.75	8.75
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,279	4,279

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,157	7,157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45	1.45
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	439	439
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	708	708
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,185	1,185

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)

Equipment Type	TOG	ROG	NOx	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. 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	CO	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

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	6/3/2024	6/20/2024	5.00	14.0	—
Grading	Grading	6/21/2024	8/16/2024	5.00	41.0	—
Building Construction	Building Construction	9/26/2024	4/22/2026	5.00	410	—
Paving	Paving	8/17/2024	9/25/2024	5.00	28.0	—
Architectural Coating	Architectural Coating	4/23/2026	6/1/2026	5.00	28.0	—

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	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

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	0.50	LDA,LDT1,LDT2

Site Preparation	Vendor	8.00	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	2.00	0.25	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	8.00	0.50	HHDT,MHDT
Grading	Hauling	3.05	0.50	HHDT
Grading	Onsite truck	2.00	0.25	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	78.2	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	31.8	0.50	HHDT,MHDT
Building Construction	Hauling	0.00	0.50	HHDT
Building Construction	Onsite truck	2.00	0.25	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	0.50	LDA,LDT1,LDT2
Paving	Vendor	8.00	0.50	HHDT,MHDT
Paving	Hauling	0.00	0.50	HHDT
Paving	Onsite truck	2.00	0.25	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	15.6	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	8.00	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	2.00	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	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)
Architectural Coating	0.00	0.00	266,246	88,576	40,102

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	21.0	0.00	—
Grading	—	1,000	123	0.00	—
Paving	0.00	0.00	0.00	0.00	15.3

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Hotel	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Convenience Market (24 hour)	0.00	0%

Automobile Care Center	0.00	0%
Parking Lot	10.8	100%
Unenclosed Parking Structure	0.40	100%
Other Non-Asphalt Surfaces	1.08	0%
Other Asphalt Surfaces	2.10	100%
Other Asphalt Surfaces	1.00	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
Hotel	606	606	606	221,190	303	303	303	110,595
Fast Food Restaurant w/o Drive Thru	3,927	3,927	3,927	1,433,355	1,964	1,964	1,964	716,678
Convenience Market (24 hour)	9,681	9,681	9,681	3,533,565	4,841	4,841	4,841	1,766,783
Automobile Care Center	2,704	2,704	2,704	986,960	1,352	1,352	1,352	493,480
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	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
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

5.10.2. 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	266,246	88,576	40,102

5.10.3. Landscape Equipment

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)
Hotel	878,400	204	0.0330	0.0040	4,928,827

Fast Food Restaurant w/o Drive Thru	250,225	204	0.0330	0.0040	700,189
Convenience Market (24 hour)	750,833	204	0.0330	0.0040	427,001
Automobile Care Center	244,876	204	0.0330	0.0040	845,669
Parking Lot	410,777	204	0.0330	0.0040	0.00
Unenclosed Parking Structure	45,322	204	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00
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)
Hotel	2,409,843	152,599
Fast Food Restaurant w/o Drive Thru	1,699,789	305,197
Convenience Market (24 hour)	948,128	354,156
Automobile Care Center	1,941,834	437,508
Parking Lot	0.00	0.00
Unenclosed Parking Structure	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	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)

Hotel	52.0	—
Fast Food Restaurant w/o Drive Thru	64.5	—
Convenience Market (24 hour)	38.5	—
Automobile Care Center	78.8	—
Parking Lot	0.00	—
Unenclosed Parking Structure	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Other Asphalt Surfaces	0.00	—
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
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

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

5.16. 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	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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

8. User Changes to Default Data

Screen	Justification
Land Use	Proposed land uses based on project description and site plan. Additional acre of "other asphalt surfaces" to account for off-site improvements (driveways and water/sewer connection from Montgomery; road, curb, gutter, and sidewalk)
Construction: Construction Phases	Earliest construction start date: June 2024 Approximately 2-year total construction duration based on applicant-provided information. No demolition
Construction: Trips and VMT	Construction trip lengths updated to 0.5 mile to account for on-site and localized emissions from worker, vendor, and haul vehicles.
Operations: Vehicle Data	Operational trip lengths updated to 0.5 mile to account for on-site and localized emissions from mobile sources. Project-specific trip rates, consistent with the Traffic Impact Study prepared VRPA Technologies, Inc. Chowchilla Travel Station - Transportation Analysis Scoping Document, dated October 13, 2023. 14,214 daily auto trips and 2,704 daily truck trips.
Operations: Fleet Mix	Trucks only for diesel fueling, passenger only fleet mix for drive-thru and hotel uses, default fleet mix retained for the main convenience store land use. Passenger only fleet mix based on default fleet mix for Madera County in the 2026 operational year. See supporting information for fleet mix calculations.

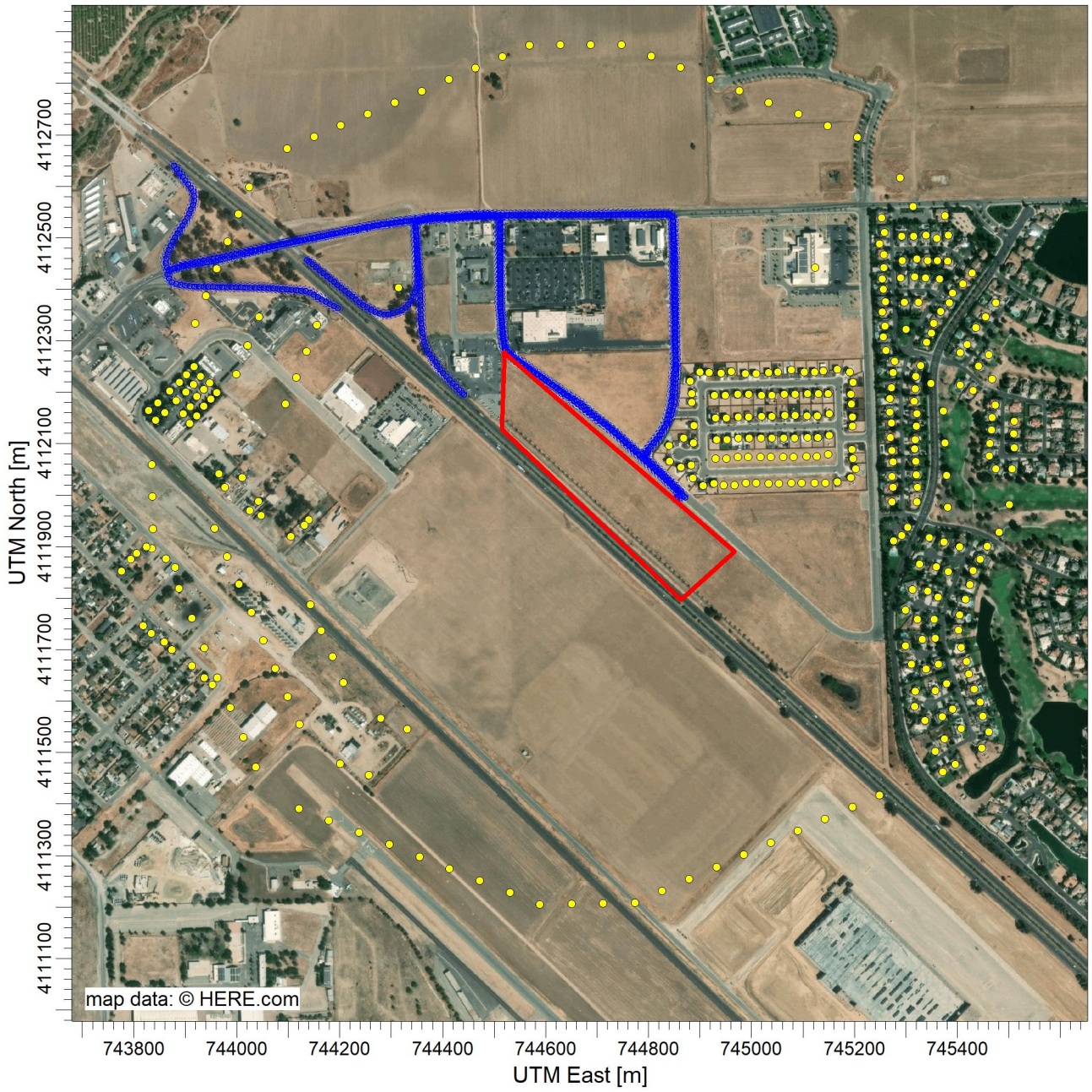
ATTACHMENT B
Health Risk Assessments

Health Risk Assessment

General Parameters

PROJECT TITLE:

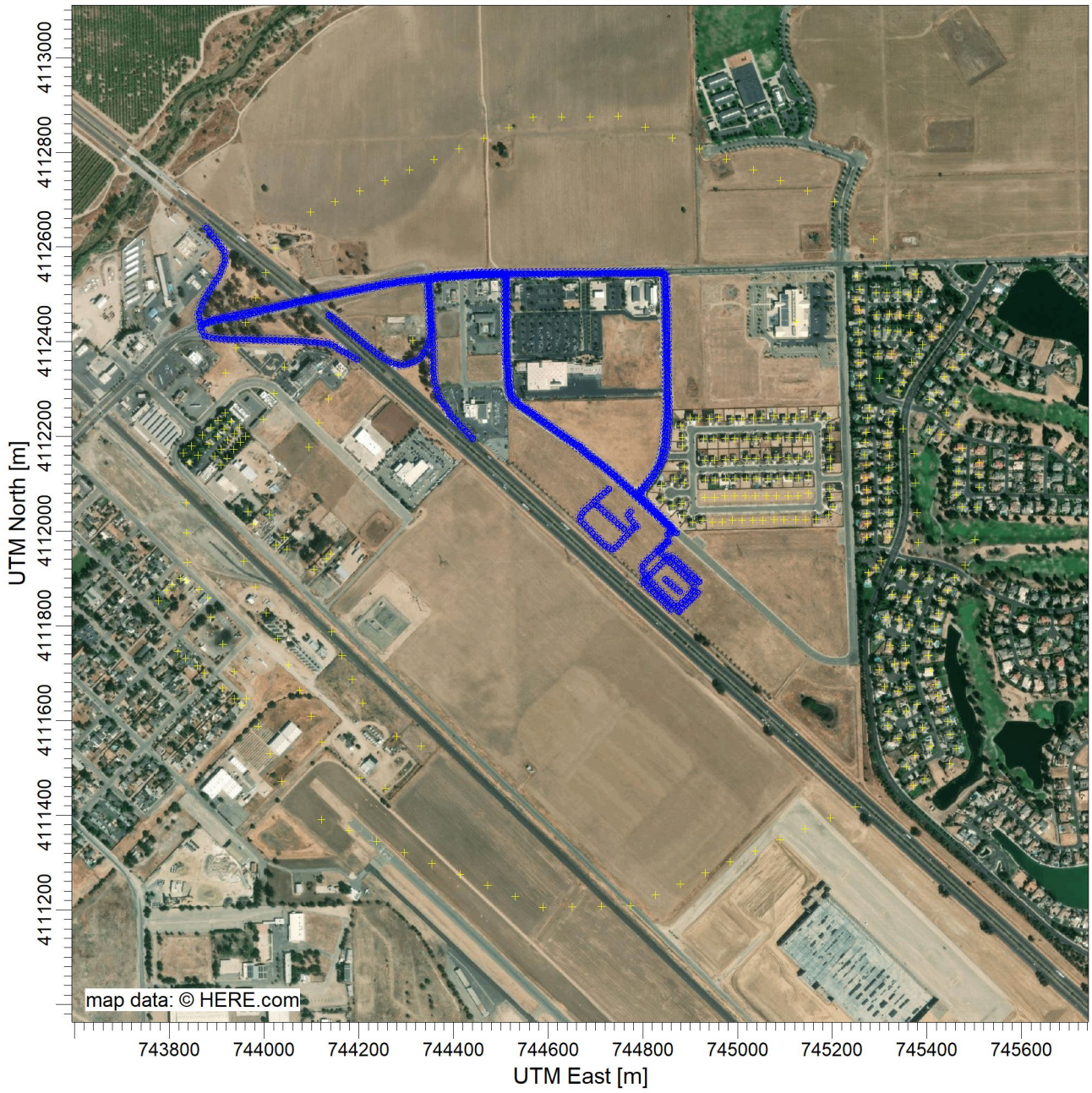
Graphical Representation of AERMOD Inputs (Construction)



COMMENTS:	SOURCES: **5**	COMPANY NAME:	
	RECEPTORS: **358**	MODELER:	
		SCALE: 1:12,413 0 0.4 km	
		DATE: **2/6/2024**	PROJECT NO.:

PROJECT TITLE:

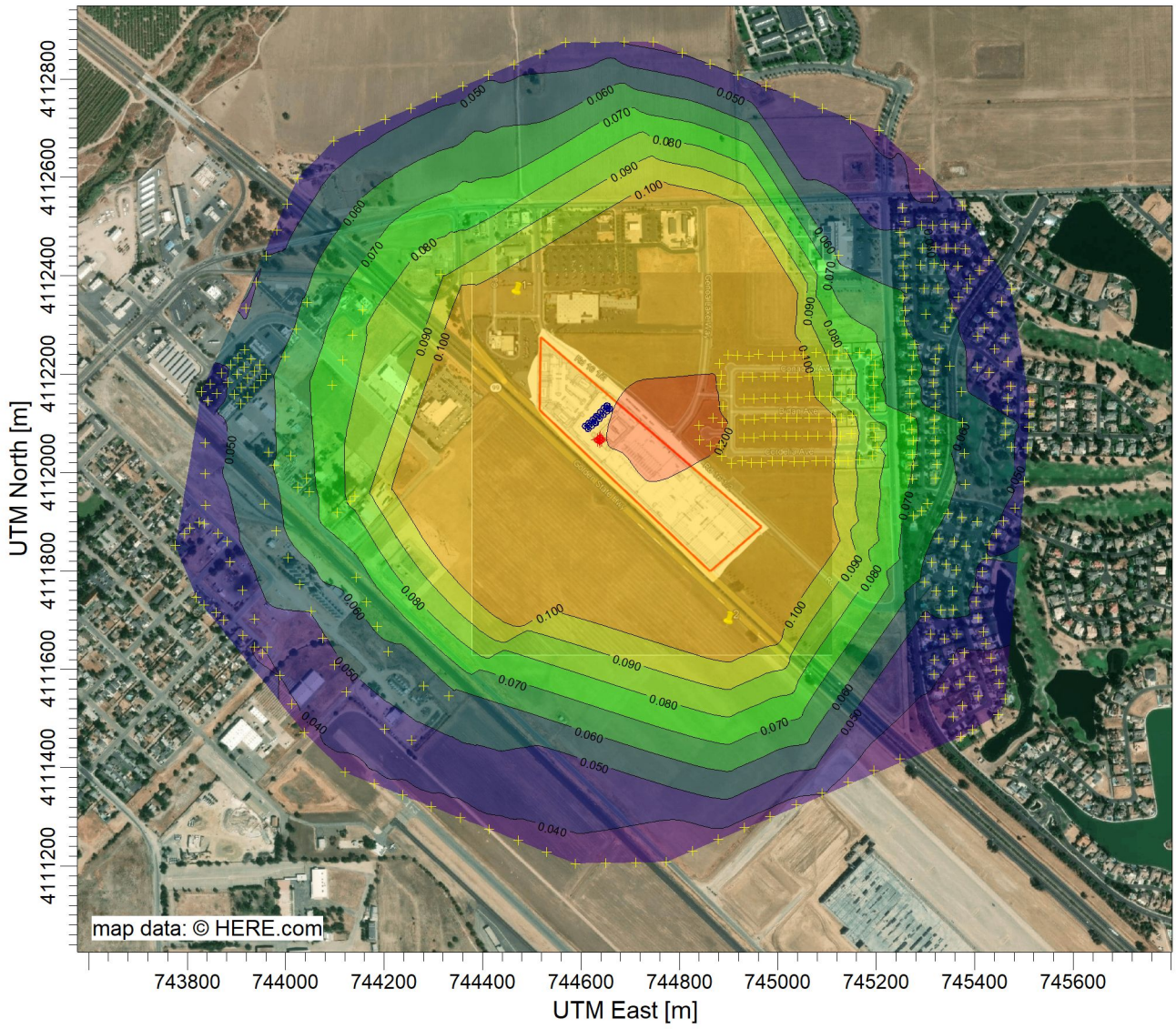
Graphical Representation of AERMOD Inputs (Operational DPM)



COMMENTS:	SOURCES: **10**	COMPANY NAME:	
	RECEPTORS: **358**	MODELER:	
		SCALE: 1:13,508 0 0.5 km	
		DATE: **2/6/2024**	PROJECT NO.:

PROJECT TITLE:

Air Dispersion Trend – Benzene from Gasoline Feuling Operations



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

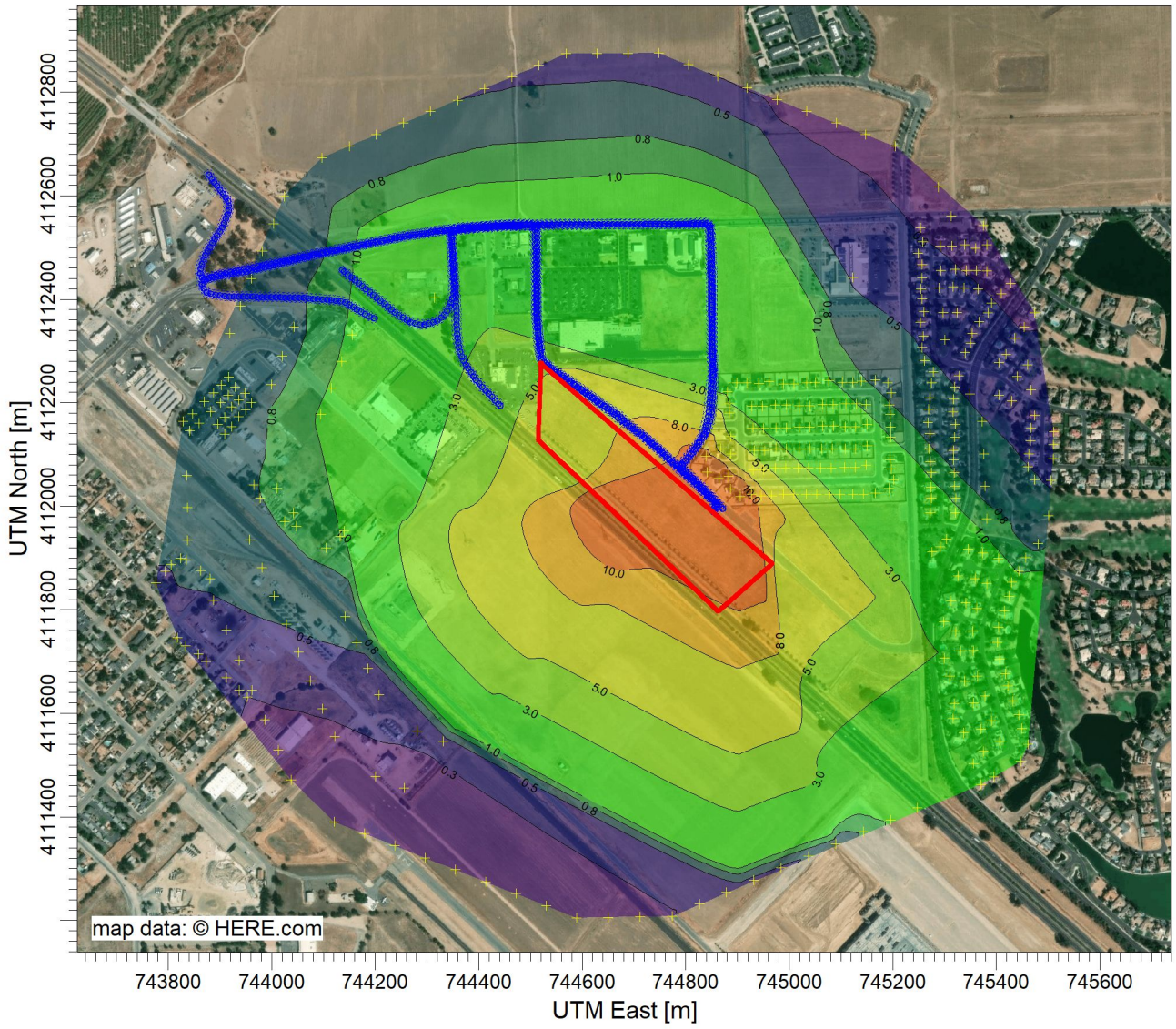
Max: 0.246 [ug/m^3] at (744839.55, 4112096.31)

0.033 0.040 0.050 0.060 0.070 0.080 0.090 0.100 0.200 0.246

COMMENTS:	SOURCES: **33**	COMPANY NAME:	
	RECEPTORS: **358**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:13,993 0 0.5 km	
	MAX: **0.246 ug/m^3**	DATE: **2/6/2024**	PROJECT NO.:

PROJECT TITLE:

Air Dispersion Trend (Construction)
Unit Emissions



PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 3 YEARS FOR SOURCE GROUP: AREA ug/m^3

Max: 15.7 [ug/m^3] at (744840.95, 4112066.10)

0.2 0.3 0.5 0.8 1.0 3.0 5.0 8.0 10.0 15.7

COMMENTS:	SOURCES: **5**	COMPANY NAME:	
	RECEPTORS: **358**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:13,299 — 0 — 0.5 km	
	MAX: **15.7 ug/m^3**	DATE: **2/6/2024**	PROJECT NO.:

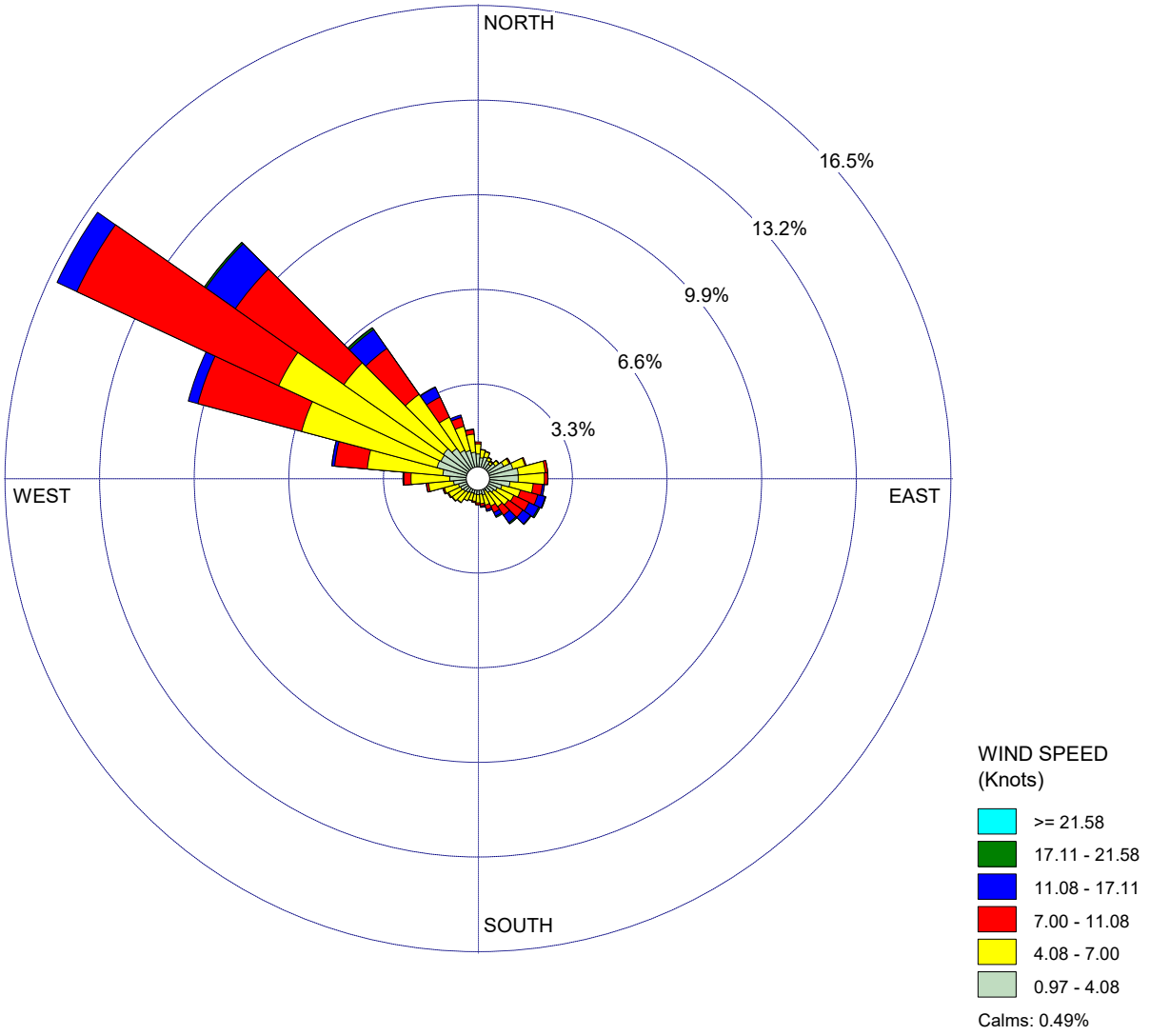

Maximally Exposed Sensitive Receptor
Legend
37°07'22.6"N 120°14'38.7"W
Genoa Lake Way
Rd 16 1/2
Conadria Ave
Bidan Ave
37°07'22.6"N 120°14'38.7"W
Cordelia Ave
Prosperity Blvd
99
Golden State Hwy
Fig Tree Rd
Golf Dr W
1000 ft
N
Google Earth

WIND ROSE PLOT:

Wind Rose – Station #93242 – Blowing From

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 1/1/2015 - 00:00 **End Date: 12/31/2017 - 23:59**	MODELER:	
	CALM WINDS: **0.49%**	TOTAL COUNT: **26038 hrs.**	
	AVG. WIND SPEED: **5.86 Knots**	DATE: **2/6/2024**	PROJECT NO.:

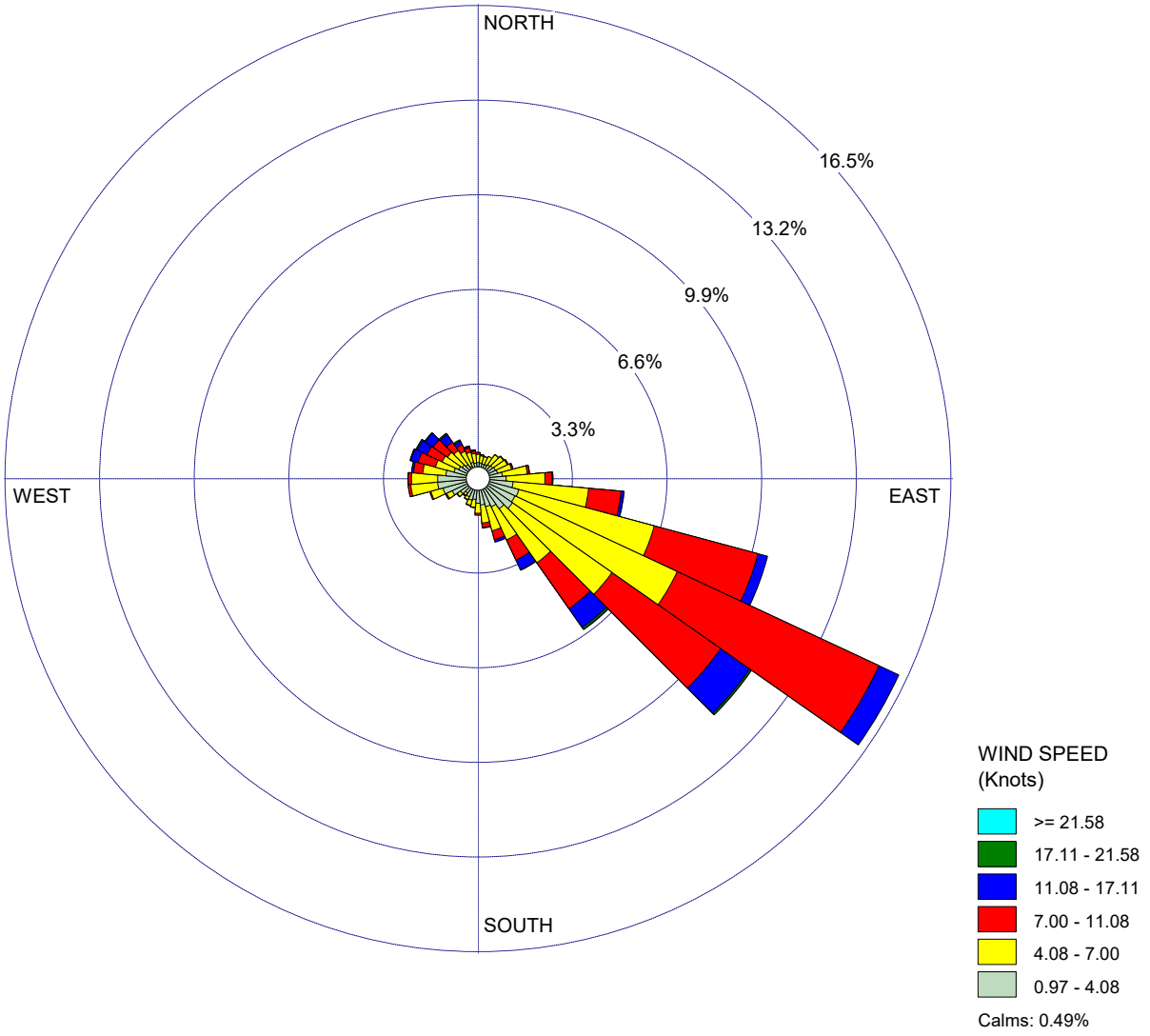
WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:

Wind Rose – Station #93242 – Blowing To

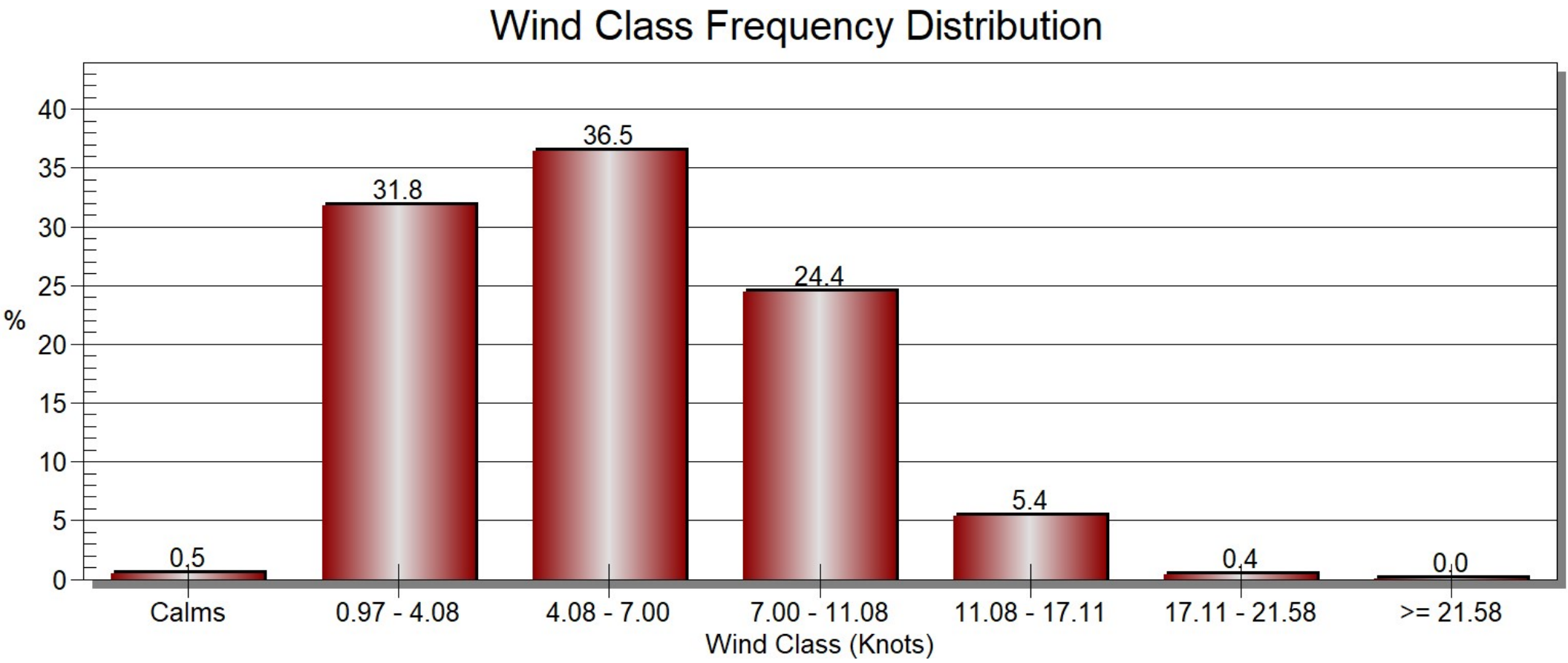
DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2015 - 00:00** **End Date: 12/31/2017 - 23:59**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **0.49%**	TOTAL COUNT: **26038 hrs.**	
	AVG. WIND SPEED: **5.86 Knots**	DATE: **2/6/2024**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software


Wind Class Frequency Distribution
40
35
30
25
20
15
10
5
0
%
36.5
31.8
24.4
5.4
0.5
0.4
0.0
Calms
0.97 - 4.08
4.08 - 7.00
7.00 - 11.08
11.08 - 17.11
17.11 - 21.58
>= 21.58
Wind Class (Knots)

Health Risk Assessment

Unmitigated Construction

A-Z Truck Center Project (Unmitigated Construction)

Estimation of Annual Onsite Construction Emissions

Start of Construction	6/3/2024	
End of Construction	6/1/2026	**Total**
Number of Days	728	728
Number of Hours	17,472	17,472

Size of the construction area source: **67,494.9** **sq-meters**

Run	Year	On-site Construction Activity	Unmitigated On-site DPM (pounds)
Project Construction	2024	Site Preparation	22.39527045
Project Construction	2024	Grading	59.37022506
Project Construction	2024	Paving	10.8978
Project Construction	2024	Building Construction	34.4878
Project Construction	2025	Building Construction	112.5870
Project Construction	2026	Building Construction	30.2923
Project Construction	2026	Architectural Coating	0.6483

Total Unmitigated DPM (On-site) 2.707E+02 pounds

Factor in AERMOD to Account for 5 days per week/8 hours per day: 4.2

Average Emission for Project Site (AREA)	1.229E+05	grams
	1.954E-03	grams/sec
	2.895E-08	grams/m2-sec

Pounds/Construction Period	2.707E+02
Pounds/Day	3.718E-01
Pounds/Hour	1.549E-02
Pounds/Year	1.357E+02
Years	1.99452

A-Z Truck Center Project (Unmitigated Construction)

Estimation of Annual Offsite Construction DPM Emissions (Unmitigated)

Start of Construction	6/3/2024		
End of Construction	6/1/2026		**Total**
Number of Days	728		728
Number of Hours	17,472		17,472

	2024 Project Construction	2024 Project Construction	2024 Project Construction	2024+2025+ 2026 Project Construction	2026 Project Construction	
Construction Trip Type	Site Preparation	Grading	Paving	Building Construction	Architectural Coating	**Total (pounds)**
Total (pounds)	0.06367	0.35182	0.12735	7.37977	0.12735	**8.04996**

	Haul Truck	**Vendor Truck**	**Worker**	**Total**
Site Preparation (2024)	0.00	112.00	245.00	357.00
Grading (2024)	125.00	328.00	820.00	1,273.00
Paving (2024)	0.00	224.00	420.00	644.00
Building Construction (2024+2025+2026)	0.00	13,051.79	32,074.68	45,126.47
Architectural Coating (2025)	0.00	224.00	438.09	662.09
Total	**125.00**	**13,939.79**	**33,997.77**	**48,062.56**

	Haul Truck (pounds)	**Vendor Truck (pounds)**	**Worker (pounds)**	**Total (pounds)**
Total DPM	2.094E-02	2.335E+00	5.694E+00	8.050E+00

Average Emissions				
Grams	9.505E+00	1.060E+03	2.585E+03	
Grams/sec	1.511E-07	1.685E-05	4.110E-05	
Default Distance	20	12.8	7.1	Default Vehicle Travel Distance in CalEEMod
Vehicle Travel Distances in the Construction HRA (miles)				
Route 1 - From North to Project Site	0.99	0.99	0.99	miles
Route 2 - From Project Site to North	0.80	0.80	0.80	miles
Route 3 - From South to Project Site	0.84	0.84	0.84	miles
Route 4 - From Project Site to South	1.21	1.21	1.21	miles
Trip Distribution (percent)				
Off-site Road Segment 1	25.0%	25.0%	25.0%	off-site
Off-site Road Segment 2	25.0%	25.0%	25.0%	off-site
Off-site Road Segment 3	25.0%	25.0%	25.0%	off-site
Off-site Road Segment 4	25.0%	25.0%	25.0%	on-site

Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total**
Off-site Road Segment 1	1.879E-09	3.274E-07	1.440E-06	1.769E-06
Off-site Road Segment 2	1.510E-09	2.632E-07	1.157E-06	1.422E-06
Off-site Road Segment 3	1.587E-09	3.995E-07	1.216E-06	1.617E-06
Off-site Road Segment 4	2.293E-09	3.995E-07	1.757E-06	2.159E-06

	Grams/sec	Pounds/Hour	Pounds/Day	Pounds/year	Tons/year
Off-site Road Segment 1	1.769E-06	1.404E-05	3.369E-04	1.230E-01	6.149E-05
Off-site Road Segment 2	1.422E-06	1.128E-05	2.708E-04	9.885E-02	4.943E-05
Off-site Road Segment 3	1.617E-06	1.284E-05	3.081E-04	2.243E-01	1.121E-04
Off-site Road Segment 4	2.159E-06	1.713E-05	4.112E-04	2.993E-01	1.497E-04

Health Risk Summary - Unmitigated Construction (Summary of HARP2 Results)

A-Z Truck Center Project (Unmitigated Construction)

	RISK SUM	Cancer Risk/million	MAXHI NonCancer Chronic	MAXHI Acute
Maximum Risk	1.0544E-05	10.54	6.1809E-03	0.00E+00

	X	Y
MER UTM	744840.95	4112066.10
Lat/Long	37°07'22.6"N 120°14'38.7"W	
	37.122941, -120.244085	
Receptor # 251		

*HARP - HRACalc v22118 2/2/2024 7:39:43 AM - Cancer Risk - Input File: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit ConHRAInput.hra
*HARP - HRACalc v22118 2/2/2024 7:39:43 AM - Chronic Risk - Input File: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit ConHRAInput.hra
*HARP - HRACalc v22118 2/2/2024 7:39:43 AM - Acute Risk - Input File: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit ConHRAInput.hra

REC	GRP	X	Y	RISK_SUM	SCENARIO	MAXHI NonCancerChronic	MAXHI Acute
1	ALL	744883.72	4112180.01	2.36660E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3872E-03	0.00E+00
2	ALL	744883.04	4112057.90	7.42220E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3507E-03	0.00E+00
3	ALL	744905.76	4112018.33	9.35570E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4841E-03	0.00E+00
4	ALL	745077.23	4112243.47	6.84500E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0124E-04	0.00E+00
5	ALL	745148.42	4112197.29	6.35820E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7270E-04	0.00E+00
6	ALL	745123.32	4112441.79	3.14680E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8446E-04	0.00E+00
7	ALL	745268.31	4112161.41	4.74770E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7830E-04	0.00E+00
8	ALL	745272.45	4112086.95	5.94730E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4862E-04	0.00E+00
9	ALL	745273.18	4112036.39	7.13970E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1851E-04	0.00E+00
10	ALL	745273.06	4111987.12	8.69020E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0940E-04	0.00E+00
11	ALL	745348.71	4112216.62	3.23910E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8987E-04	0.00E+00
12	ALL	745328.11	4112252.26	3.14890E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8458E-04	0.00E+00
13	ALL	745300.49	4112322.03	2.87620E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6860E-04	0.00E+00
14	ALL	745260.22	4112375.72	2.77400E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6261E-04	0.00E+00
15	ALL	745254.22	4112420.11	2.52880E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4823E-04	0.00E+00
16	ALL	745258.02	4112510.51	2.05480E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2045E-04	0.00E+00
17	ALL	745253.00	4112538.25	1.95760E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1475E-04	0.00E+00
18	ALL	745372.82	4112163.91	3.44410E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0189E-04	0.00E+00
19	ALL	745375.68	4112101.40	4.03250E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3638E-04	0.00E+00
20	ALL	745378.55	4112038.90	4.81330E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8215E-04	0.00E+00
21	ALL	745381.41	4111976.39	5.84890E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4285E-04	0.00E+00
22	ALL	745467.11	4112225.32	2.38190E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3962E-04	0.00E+00
23	ALL	745461.11	4112273.21	2.20380E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2918E-04	0.00E+00
24	ALL	745436.03	4112325.62	2.11590E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2403E-04	0.00E+00
25	ALL	745390.37	4112393.08	2.05670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2056E-04	0.00E+00
26	ALL	745361.28	4112455.52	1.92880E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1306E-04	0.00E+00
27	ALL	745339.21	4112504.92	1.82280E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0685E-04	0.00E+00
28	ALL	745313.63	4112560.84	1.70910E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0018E-04	0.00E+00
29	ALL	745288.05	4112616.76	1.60440E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.4047E-05	0.00E+00
30	ALL	745205.26	4112695.21	1.56500E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1735E-05	0.00E+00
31	ALL	745148.05	4112717.75	1.62620E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.5324E-05	0.00E+00
32	ALL	745090.83	4112740.29	1.69290E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.9236E-05	0.00E+00
33	ALL	745033.62	4112762.83	1.76630E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0353E-04	0.00E+00
34	ALL	744976.41	4112785.36	1.84560E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0819E-04	0.00E+00
35	ALL	744919.20	4112807.90	1.92840E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1304E-04	0.00E+00
36	ALL	744861.98	4112830.44	2.01010E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1783E-04	0.00E+00
37	ALL	744804.77	4112852.98	2.08340E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2213E-04	0.00E+00
38	ALL	745473.92	4112175.38	2.59460E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5209E-04	0.00E+00
39	ALL	745510.07	4112092.39	2.85520E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6736E-04	0.00E+00
40	ALL	745506.10	4112050.79	3.18140E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8648E-04	0.00E+00
41	ALL	745501.28	4111981.88	3.86000E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2627E-04	0.00E+00
42	ALL	745322.14	4111759.09	1.58580E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2958E-04	0.00E+00
43	ALL	745298.62	4111776.61	1.70800E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0012E-03	0.00E+00
44	ALL	745312.71	4111816.98	1.41790E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.3115E-04	0.00E+00
45	ALL	745326.42	4111866.01	1.11290E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.5238E-04	0.00E+00
46	ALL	745345.57	4111917.21	8.37340E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9083E-04	0.00E+00
47	ALL	744826.28	4111231.40	2.14300E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2562E-04	0.00E+00
48	ALL	744879.04	4111254.69	2.34220E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3730E-04	0.00E+00
49	ALL	744931.79	4111277.99	2.57010E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5065E-04	0.00E+00
50	ALL	744984.55	4111301.28	2.89360E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6962E-04	0.00E+00
51	ALL	745037.31	4111324.57	3.43070E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0110E-04	0.00E+00
52	ALL	745090.07	4111347.86	4.27390E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5053E-04	0.00E+00
53	ALL	745142.83	4111371.16	5.47000E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2064E-04	0.00E+00
54	ALL	745195.58	4111394.45	6.90320E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0465E-04	0.00E+00
55	ALL	745248.34	4111417.74	8.33680E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.8869E-04	0.00E+00
56	ALL	745356.35	4111502.86	1.15320E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.7599E-04	0.00E+00
57	ALL	745337.26	4111562.37	1.39820E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1959E-04	0.00E+00
58	ALL	745378.97	4111634.26	1.39010E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1485E-04	0.00E+00
59	ALL	745363.36	4111672.09	1.47170E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.6269E-04	0.00E+00
60	ALL	745407.00	4111704.49	1.21370E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1146E-04	0.00E+00
61	ALL	745404.60	4111767.15	1.08040E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.3333E-04	0.00E+00
62	ALL	745424.18	4111825.79	8.38640E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.9159E-04	0.00E+00
63	ALL	745443.84	4111875.16	6.58000E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8571E-04	0.00E+00
64	ALL	745481.27	4111927.80	4.83170E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8322E-04	0.00E+00
65	ALL	744773.52	4111208.11	1.94850E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1422E-04	0.00E+00
66	ALL	744711.97	4111207.16	1.81640E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0647E-04	0.00E+00
67	ALL	744650.41	4111206.20	1.66640E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.7683E-05	0.00E+00
68	ALL	744588.86	4111205.25	1.51280E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.8677E-05	0.00E+00
69	ALL	744142.53	4111787.01	4.16220E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4398E-04	0.00E+00
70	ALL	744164.23	4111736.82	3.55010E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0810E-04	0.00E+00
71	ALL	744185.92	4111686.62	3.00850E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7635E-04	0.00E+00
72	ALL	744207.61	4111636.43	2.56550E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5038E-04	0.00E+00
73	ALL	744280.14	4111566.09	2.20300E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2914E-04	0.00E+00
74	ALL	744330.97	4111545.95	2.19840E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2886E-04	0.00E+00
75	ALL	743981.01	4111881.32	4.31810E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5312E-04	0.00E+00

76	ALL	744004.54	4111826.86	3.88200E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2756E-04	0.00E+00
77	ALL	744028.08	4111772.40	3.38820E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9861E-04	0.00E+00
78	ALL	744051.61	4111717.93	2.89860E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6991E-04	0.00E+00
79	ALL	744075.15	4111663.47	2.46230E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4433E-04	0.00E+00
80	ALL	744098.69	4111609.01	2.10400E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2333E-04	0.00E+00
81	ALL	744122.22	4111554.55	1.82360E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0689E-04	0.00E+00
82	ALL	744200.91	4111478.24	1.59000E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.3202E-05	0.00E+00
83	ALL	744256.07	4111456.38	1.58470E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.2891E-05	0.00E+00
84	ALL	743957.47	4111935.78	4.63670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7179E-04	0.00E+00
85	ALL	743862.45	4111876.18	3.59610E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1079E-04	0.00E+00
86	ALL	743887.42	4111818.40	3.25060E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9054E-04	0.00E+00
87	ALL	743912.39	4111760.62	2.85480E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6735E-04	0.00E+00
88	ALL	743937.36	4111702.85	2.45960E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4418E-04	0.00E+00
89	ALL	743962.33	4111645.07	2.10310E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2328E-04	0.00E+00
90	ALL	743987.30	4111587.29	1.80460E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0578E-04	0.00E+00
91	ALL	744012.27	4111529.51	1.56730E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1869E-05	0.00E+00
92	ALL	744037.24	4111471.73	1.37920E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.0845E-05	0.00E+00
93	ALL	744120.73	4111390.76	1.21720E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1351E-05	0.00E+00
94	ALL	744179.25	4111367.57	1.21200E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1043E-05	0.00E+00
95	ALL	744237.76	4111344.38	1.21460E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1197E-05	0.00E+00
96	ALL	744296.28	4111321.19	1.22790E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1976E-05	0.00E+00
97	ALL	744354.79	4111298.01	1.25500E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.3568E-05	0.00E+00
98	ALL	744413.31	4111274.82	1.29940E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.6166E-05	0.00E+00
99	ALL	744471.83	4111251.63	1.36100E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.9778E-05	0.00E+00
100	ALL	744530.34	4111228.44	1.43510E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.4123E-05	0.00E+00
101	ALL	743837.48	4111933.96	3.83970E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2508E-04	0.00E+00
102	ALL	743836.53	4111996.94	4.10530E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4065E-04	0.00E+00
103	ALL	743835.58	4112059.93	4.18330E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4522E-04	0.00E+00
104	ALL	744155.93	4112330.55	7.20880E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2257E-04	0.00E+00
105	ALL	744135.59	4112279.55	6.95850E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0789E-04	0.00E+00
106	ALL	744115.26	4112228.55	6.87960E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0327E-04	0.00E+00
107	ALL	744094.93	4112177.54	6.86170E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.0222E-04	0.00E+00
108	ALL	744042.85	4112346.07	5.14020E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0131E-04	0.00E+00
109	ALL	744020.79	4112290.74	4.92790E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8886E-04	0.00E+00
110	ALL	743998.73	4112235.40	4.94630E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8994E-04	0.00E+00
111	ALL	744516.29	4112851.81	2.74230E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6075E-04	0.00E+00
112	ALL	744463.95	4112829.53	2.97220E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7423E-04	0.00E+00
113	ALL	744411.62	4112807.25	3.19600E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8734E-04	0.00E+00
114	ALL	744359.28	4112784.97	3.38760E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9858E-04	0.00E+00
115	ALL	744306.95	4112762.68	3.54050E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0754E-04	0.00E+00
116	ALL	744254.61	4112740.40	3.65080E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1400E-04	0.00E+00
117	ALL	744202.27	4112718.12	3.71740E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1791E-04	0.00E+00
118	ALL	744149.94	4112695.84	3.73610E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1900E-04	0.00E+00
119	ALL	744097.60	4112673.56	3.69930E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1685E-04	0.00E+00
120	ALL	744024.20	4112598.45	3.82050E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2395E-04	0.00E+00
121	ALL	744003.14	4112545.61	4.02150E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3573E-04	0.00E+00
122	ALL	743982.07	4112492.77	4.28630E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5125E-04	0.00E+00
123	ALL	743961.01	4112439.93	4.62680E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7121E-04	0.00E+00
124	ALL	743939.95	4112387.10	4.28240E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5103E-04	0.00E+00
125	ALL	743918.88	4112334.26	3.75600E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2017E-04	0.00E+00
126	ALL	744568.63	4112874.09	2.52400E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4795E-04	0.00E+00
127	ALL	744628.27	4112874.56	2.41470E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4154E-04	0.00E+00
128	ALL	744687.91	4112875.04	2.28600E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3400E-04	0.00E+00
129	ALL	744747.56	4112875.52	2.14100E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2550E-04	0.00E+00
130	ALL	745248.53	4112488.04	2.19010E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2838E-04	0.00E+00
131	ALL	745256.85	4112466.99	2.26060E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3251E-04	0.00E+00
132	ALL	745257.34	4112441.53	2.39360E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4031E-04	0.00E+00
133	ALL	745256.36	4112400.41	2.63630E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5454E-04	0.00E+00
134	ALL	745253.91	4112355.37	2.95750E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7336E-04	0.00E+00
135	ALL	745291.64	4112502.70	1.97540E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1579E-04	0.00E+00
136	ALL	745314.73	4112502.70	1.90300E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1155E-04	0.00E+00
137	ALL	745360.41	4112498.69	1.78340E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0454E-04	0.00E+00
138	ALL	745375.47	4112542.86	1.61280E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.4542E-05	0.00E+00
139	ALL	745293.15	4112456.02	2.17060E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2723E-04	0.00E+00
140	ALL	745320.76	4112458.53	2.05590E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2051E-04	0.00E+00
141	ALL	745341.84	4112456.02	1.99230E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1678E-04	0.00E+00
142	ALL	745289.30	4112422.06	2.35310E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3793E-04	0.00E+00
143	ALL	745316.91	4112424.57	2.22100E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3019E-04	0.00E+00
144	ALL	745337.99	4112422.06	2.14520E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2575E-04	0.00E+00
145	ALL	745259.57	4112328.70	3.11560E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8263E-04	0.00E+00
146	ALL	745256.46	4112307.27	3.30940E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9399E-04	0.00E+00
147	ALL	745474.41	4112373.37	1.81250E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0624E-04	0.00E+00
148	ALL	745454.23	4112346.42	1.96940E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1544E-04	0.00E+00
149	ALL	745384.07	4112374.07	2.15710E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2645E-04	0.00E+00
150	ALL	745367.38	4112356.77	2.30670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3521E-04	0.00E+00
151	ALL	745428.24	4112431.29	1.79340E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0512E-04	0.00E+00
152	ALL	745410.04	4112410.48	1.92010E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1255E-04	0.00E+00
153	ALL	745381.66	4112505.09	1.70580E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.9988E-05	0.00E+00
154	ALL	745381.49	4112454.59	1.86670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0942E-04	0.00E+00
155	ALL	745365.43	4112419.45	2.04940E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2013E-04	0.00E+00
156	ALL	745297.16	4112374.27	2.57510E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5095E-04	0.00E+00
157	ALL	745324.77	4112374.27	2.43230E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4257E-04	0.00E+00
158	ALL	745353.38	4112334.11	2.48800E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4584E-04	0.00E+00
159	ALL	745349.87	4112314.53	2.60930E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5295E-04	0.00E+00
160	ALL	745339.83	4112296.46	2.77850E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6287E-04	0.00E+00
161	ALL	745275.15	4112015.28	7.68900E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.5071E-04	0.00E+00
162	ALL	745275.15	4112064.78	6.37110E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7346E-04	0.00E+00
163	ALL	745271.87	4112139.99	5.00610E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9345E-04	0.00E+00
164	ALL	745269.90	4112111.61	5.51970E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2355E-04	0.00E+00
165	ALL	745322.64	4112015.82	6.34670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7203E-04	0.00E+00
166	ALL	745320.68	4111987.43	7.09980E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1617E-04	0.00E+00
167	ALL	745319.23	4112065.32	5.41080E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1717E-04	0.00E+00
168	ALL	745319.82	4112039.07	5.90630E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4622E-04	0.00E+00
169	ALL	745317.95	4112107.99	4.73890E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7778E-04	0.00E+00
170	ALL	745317.26	4112089.42	5.03470E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9512E-04	0.00E+00
171	ALL	745317.52	4112206.56	3.61710E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1203E-04	0.00E+00

172	ALL	745316.41	4112182.02	3.86220E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2639E-04	0.00E+00
173	ALL	745320.94	4112158.56	4.05570E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3773E-04	0.00E+00
174	ALL	745319.82	4112134.01	4.35940E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5554E-04	0.00E+00
175	ALL	745467.73	4112151.30	2.77350E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6258E-04	0.00E+00
176	ALL	745466.61	4112126.76	2.94020E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7235E-04	0.00E+00
177	ALL	745510.82	4112144.05	2.54410E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4913E-04	0.00E+00
178	ALL	745509.71	4112119.50	2.68840E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5759E-04	0.00E+00
179	ALL	745462.61	4112100.95	3.15850E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.8514E-04	0.00E+00
180	ALL	745461.49	4112076.40	3.36720E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9738E-04	0.00E+00
181	ALL	745474.42	4112051.55	3.46090E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0287E-04	0.00E+00
182	ALL	745278.38	4112259.94	3.52580E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0667E-04	0.00E+00
183	ALL	745275.26	4112238.52	3.75270E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1997E-04	0.00E+00
184	ALL	745271.98	4112208.73	4.10560E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4066E-04	0.00E+00
185	ALL	745268.86	4112187.31	4.39790E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5780E-04	0.00E+00
186	ALL	745319.49	4112230.45	3.38900E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9866E-04	0.00E+00
187	ALL	745261.03	4112281.24	3.50010E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0517E-04	0.00E+00
188	ALL	745440.69	4112250.51	2.40440E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4094E-04	0.00E+00
189	ALL	745405.69	4112277.39	2.47340E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4499E-04	0.00E+00
190	ALL	745418.92	4112293.18	2.32910E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3653E-04	0.00E+00
191	ALL	745405.27	4112214.24	2.81750E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6516E-04	0.00E+00
192	ALL	745430.02	4112203.14	2.71870E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5937E-04	0.00E+00
193	ALL	745303.73	4111937.03	9.30000E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.4514E-04	0.00E+00
194	ALL	745291.76	4111922.16	1.04490E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.1247E-04	0.00E+00
195	ALL	745276.16	4111911.64	1.17860E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.9090E-04	0.00E+00
196	ALL	745373.37	4111909.10	7.68750E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.5062E-04	0.00E+00
197	ALL	745404.21	4111900.03	7.02310E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1168E-04	0.00E+00
198	ALL	745358.86	4111860.49	9.80300E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7463E-04	0.00E+00
199	ALL	745382.08	4111851.06	9.16820E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.3742E-04	0.00E+00
200	ALL	745457.53	4111901.12	5.73230E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3602E-04	0.00E+00
201	ALL	745362.13	4111802.45	1.17670E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.8974E-04	0.00E+00
202	ALL	745341.81	4111813.70	1.24670E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.3079E-04	0.00E+00
203	ALL	745429.96	4111853.24	7.47910E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.3841E-04	0.00E+00
204	ALL	743880.64	4111859.77	3.55840E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0859E-04	0.00E+00
205	ALL	743834.97	4111896.04	3.59900E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1097E-04	0.00E+00
206	ALL	743858.78	4111715.17	2.37080E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3897E-04	0.00E+00
207	ALL	743873.49	4111700.08	2.29950E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3479E-04	0.00E+00
208	ALL	743912.57	4111668.73	2.16810E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2709E-04	0.00E+00
209	ALL	743937.34	4111645.13	2.06120E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2083E-04	0.00E+00
210	ALL	743952.82	4111631.97	2.00590E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1758E-04	0.00E+00
211	ALL	743834.02	4111731.03	2.42250E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4200E-04	0.00E+00
212	ALL	743817.76	4111746.51	2.48820E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4585E-04	0.00E+00
213	ALL	743776.23	4111852.09	3.06780E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7983E-04	0.00E+00
214	ALL	743794.40	4111875.02	3.28160E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9236E-04	0.00E+00
215	ALL	743805.59	4111886.76	3.40280E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9946E-04	0.00E+00
216	ALL	743824.04	4111899.62	3.56870E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.0919E-04	0.00E+00
217	ALL	744140.05	4111952.04	6.76770E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9671E-04	0.00E+00
218	ALL	744131.50	4111942.17	6.50330E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.8121E-04	0.00E+00
219	ALL	744047.61	4111960.92	5.68460E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3322E-04	0.00E+00
220	ALL	744024.91	4111970.46	5.52320E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2376E-04	0.00E+00
221	ALL	744042.01	4111987.57	5.85160E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4301E-04	0.00E+00
222	ALL	744010.76	4112034.61	5.75120E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3712E-04	0.00E+00
223	ALL	743965.69	4112041.52	5.27130E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.0900E-04	0.00E+00
224	ALL	743977.29	4112014.98	5.30440E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.1094E-04	0.00E+00
225	ALL	743842.02	4112145.60	4.02020E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3566E-04	0.00E+00
226	ALL	743829.16	4112164.34	3.84670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2549E-04	0.00E+00
227	ALL	743859.92	4112160.57	4.08150E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3925E-04	0.00E+00
228	ALL	743847.06	4112179.30	3.89440E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.2828E-04	0.00E+00
229	ALL	743882.57	4112183.78	4.13380E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4232E-04	0.00E+00
230	ALL	743869.71	4112202.52	3.93110E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3044E-04	0.00E+00
231	ALL	743901.03	4112200.28	4.18880E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4554E-04	0.00E+00
232	ALL	743888.17	4112219.02	3.97690E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3312E-04	0.00E+00
233	ALL	743929.84	4112230.48	4.25750E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4956E-04	0.00E+00
234	ALL	743916.97	4112249.22	4.03920E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3677E-04	0.00E+00
235	ALL	743915.58	4112214.82	4.22550E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4769E-04	0.00E+00
236	ALL	743902.71	4112233.56	4.00870E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3498E-04	0.00E+00
237	ALL	743908.58	4112139.59	4.57660E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6827E-04	0.00E+00
238	ALL	743895.72	4112158.33	4.37640E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5654E-04	0.00E+00
239	ALL	743922.29	4112153.57	4.63660E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7179E-04	0.00E+00
240	ALL	743909.42	4112172.31	4.42080E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5914E-04	0.00E+00
241	ALL	743935.57	4112173.15	4.65790E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7304E-04	0.00E+00
242	ALL	743922.71	4112191.89	4.42670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.5949E-04	0.00E+00
243	ALL	743949.27	4112187.13	4.71050E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7612E-04	0.00E+00
244	ALL	743936.41	4112205.87	4.46830E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6193E-04	0.00E+00
245	ALL	743960.88	4112199.72	4.75120E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.7850E-04	0.00E+00
246	ALL	743948.02	4112218.46	4.50180E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6389E-04	0.00E+00
247	ALL	744314.29	4112403.08	1.10230E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4614E-04	0.00E+00
248	ALL	744927.37	4112023.03	6.99900E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.1027E-03	0.00E+00
249	ALL	744886.26	4112033.38	9.66940E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.6680E-03	0.00E+00
250	ALL	744863.32	4112053.80	9.62990E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.6448E-03	0.00E+00
251	ALL	744840.95	4112066.10	1.05440E-05	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.1809E-03	0.00E+00
252	ALL	744839.55	4112096.31	7.28880E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2726E-03	0.00E+00
253	ALL	744867.80	4112111.13	4.81620E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8232E-03	0.00E+00
254	ALL	744887.10	4112101.35	4.52450E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.6522E-03	0.00E+00
255	ALL	744887.73	4112135.02	3.30540E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9376E-03	0.00E+00
256	ALL	744884.11	4112197.54	2.08260E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2208E-03	0.00E+00
257	ALL	744880.82	4112221.56	1.80700E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0592E-03	0.00E+00
258	ALL	744899.25	4112238.68	1.47620E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.6531E-04	0.00E+00
259	ALL	744918.00	4112238.02	1.35110E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.9198E-04	0.00E+00
260	ALL	744941.04	4112237.03	1.22010E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1517E-04	0.00E+00
261	ALL	744960.45	4112240.32	1.09980E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4470E-04	0.00E+00
262	ALL	744988.42	4112236.37	9.94750E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.8310E-04	0.00E+00
263	ALL	745008.82	4112236.37	9.14440E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.3602E-04	0.00E+00
264	ALL	745033.50	4112238.02	8.23140E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.8251E-04	0.00E+00
265	ALL	745051.27	4112239.00	7.66030E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.4903E-04	0.00E+00
266	ALL	744928.20	4112193.92	1.66820E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.7787E-04	0.00E+00
267	ALL	744948.61	4112193.92	1.50020E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7941E-04	0.00E+00

268	ALL	744930.51	4112150.16	2.20960E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2952E-03	0.00E+00
269	ALL	744950.91	4112150.16	1.95670E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1470E-03	0.00E+00
270	ALL	744932.15	4112107.71	3.02780E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7748E-03	0.00E+00
271	ALL	744952.55	4112107.71	2.63100E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5423E-03	0.00E+00
272	ALL	744974.60	4112111.00	2.22320E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.3032E-03	0.00E+00
273	ALL	744995.00	4112111.00	1.96130E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1497E-03	0.00E+00
274	ALL	745018.69	4112110.67	1.71240E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0038E-03	0.00E+00
275	ALL	745039.10	4112110.67	1.52960E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.9663E-04	0.00E+00
276	ALL	745063.12	4112111.33	1.34300E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.8725E-04	0.00E+00
277	ALL	745083.52	4112111.33	1.21220E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1057E-04	0.00E+00
278	ALL	745108.53	4112111.66	1.07290E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.2891E-04	0.00E+00
279	ALL	745128.93	4112111.66	9.76230E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7224E-04	0.00E+00
280	ALL	744973.61	4112195.57	1.31280E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.6951E-04	0.00E+00
281	ALL	744994.02	4112195.57	1.19190E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.9866E-04	0.00E+00
282	ALL	744973.94	4112151.48	1.70240E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.9794E-04	0.00E+00
283	ALL	744994.34	4112151.48	1.52500E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.9392E-04	0.00E+00
284	ALL	745019.35	4112152.79	1.33140E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.8046E-04	0.00E+00
285	ALL	745039.75	4112152.79	1.20550E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0664E-04	0.00E+00
286	ALL	745019.35	4112194.25	1.06980E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.2711E-04	0.00E+00
287	ALL	745039.75	4112194.25	9.79140E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.7395E-04	0.00E+00
288	ALL	745064.10	4112196.56	8.75770E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1336E-04	0.00E+00
289	ALL	745084.51	4112196.56	8.07700E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.7346E-04	0.00E+00
290	ALL	745064.76	4112155.10	1.06100E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.2196E-04	0.00E+00
291	ALL	745085.16	4112155.10	9.69560E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.6833E-04	0.00E+00
292	ALL	745107.87	4112154.44	8.82810E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.1749E-04	0.00E+00
293	ALL	745128.27	4112154.44	8.11670E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.7578E-04	0.00E+00
294	ALL	745109.18	4112197.54	7.32300E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2926E-04	0.00E+00
295	ALL	745129.59	4112197.54	6.79420E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9826E-04	0.00E+00
296	ALL	745102.27	4112239.33	6.37950E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.7395E-04	0.00E+00
297	ALL	745122.68	4112239.33	5.95730E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4920E-04	0.00E+00
298	ALL	745139.49	4112241.44	5.59710E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2809E-04	0.00E+00
299	ALL	745166.98	4112244.15	5.08550E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9810E-04	0.00E+00
300	ALL	745190.60	4112238.73	4.81530E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8226E-04	0.00E+00
301	ALL	745197.18	4112218.98	5.01890E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.9420E-04	0.00E+00
302	ALL	745193.31	4112195.75	5.47730E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.2107E-04	0.00E+00
303	ALL	745194.47	4112177.55	5.79750E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.3984E-04	0.00E+00
304	ALL	745196.02	4112152.39	6.29060E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.6874E-04	0.00E+00
305	ALL	745196.02	4112134.19	6.71770E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.9378E-04	0.00E+00
306	ALL	745151.11	4112158.20	7.30070E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.2795E-04	0.00E+00
307	ALL	745150.72	4112116.38	8.67850E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0872E-04	0.00E+00
308	ALL	745195.24	4112089.28	8.01410E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	4.6977E-04	0.00E+00
309	ALL	745197.18	4112071.47	8.55120E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.0125E-04	0.00E+00
310	ALL	745202.21	4112051.34	9.10640E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.3380E-04	0.00E+00
311	ALL	745192.92	4112034.30	1.02540E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0105E-04	0.00E+00
312	ALL	745166.59	4112025.39	1.21910E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.1460E-04	0.00E+00
313	ALL	744946.39	4112019.92	5.97670E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.5034E-03	0.00E+00
314	ALL	744966.79	4112019.92	4.93460E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.8926E-03	0.00E+00
315	ALL	744988.84	4112023.21	3.96170E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.3223E-03	0.00E+00
316	ALL	745009.24	4112023.21	3.36410E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.9720E-03	0.00E+00
317	ALL	745032.93	4112022.88	2.82310E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.6548E-03	0.00E+00
318	ALL	745053.34	4112022.88	2.44410E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.4327E-03	0.00E+00
319	ALL	745077.36	4112023.54	2.07310E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2152E-03	0.00E+00
320	ALL	745097.76	4112023.54	1.81740E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0653E-03	0.00E+00
321	ALL	745122.77	4112023.87	1.56150E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1535E-04	0.00E+00
322	ALL	745143.17	4112023.87	1.39210E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.1600E-04	0.00E+00
323	ALL	744930.35	4112070.88	4.23210E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.4808E-03	0.00E+00
324	ALL	744950.75	4112070.88	3.59830E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	2.1093E-03	0.00E+00
325	ALL	744972.80	4112074.17	2.96620E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.7387E-03	0.00E+00
326	ALL	744993.20	4112074.17	2.56740E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.5050E-03	0.00E+00
327	ALL	745016.89	4112073.84	2.19910E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.2891E-03	0.00E+00
328	ALL	745037.29	4112073.84	1.93660E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.1352E-03	0.00E+00
329	ALL	745061.31	4112074.50	1.67360E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.8102E-04	0.00E+00
330	ALL	745081.72	4112074.50	1.49200E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.7460E-04	0.00E+00
331	ALL	745106.72	4112074.83	1.30220E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.6333E-04	0.00E+00
332	ALL	745127.13	4112074.83	1.17260E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.8734E-04	0.00E+00
333	ALL	745148.92	4112079.55	1.03030E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0395E-04	0.00E+00
334	ALL	745415.63	4111798.24	9.46600E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.5488E-04	0.00E+00
335	ALL	745354.45	4111758.74	1.36950E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.0279E-04	0.00E+00
336	ALL	745331.61	4111720.02	1.61650E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.4757E-04	0.00E+00
337	ALL	745356.39	4111721.57	1.45330E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.5188E-04	0.00E+00
338	ALL	745299.08	4111706.86	1.87360E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0982E-03	0.00E+00
339	ALL	745310.31	4111671.62	1.78760E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	1.0478E-03	0.00E+00
340	ALL	745338.58	4111661.94	1.60850E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.4286E-04	0.00E+00
341	ALL	745402.47	4111737.45	1.16680E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.8393E-04	0.00E+00
342	ALL	745417.95	4111676.66	1.20250E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0490E-04	0.00E+00
343	ALL	745422.21	4111652.65	1.20420E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0585E-04	0.00E+00
344	ALL	745432.67	4111623.22	1.17150E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.8672E-04	0.00E+00
345	ALL	745443.90	4111597.67	1.12690E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.6056E-04	0.00E+00
346	ALL	745449.32	4111570.95	1.09290E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.4063E-04	0.00E+00
347	ALL	745461.32	4111539.98	1.03010E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.0383E-04	0.00E+00
348	ALL	745447.38	4111508.23	1.01190E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.9318E-04	0.00E+00
349	ALL	745356.39	4111620.51	1.47560E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	8.6499E-04	0.00E+00
350	ALL	745318.44	4111619.35	1.64490E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.6420E-04	0.00E+00
351	ALL	745316.89	4111589.54	1.55720E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	9.1280E-04	0.00E+00
352	ALL	745370.71	4111570.18	1.32260E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.7528E-04	0.00E+00
353	ALL	745390.46	4111584.89	1.28910E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.5565E-04	0.00E+00
354	ALL	745407.11	4111546.17	1.17030E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	6.8598E-04	0.00E+00
355	ALL	745374.59	4111526.42	1.19620E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	7.0117E-04	0.00E+00
356	ALL	745371.10	4111462.92	1.00460E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.8885E-04	0.00E+00
357	ALL	745395.50	4111477.25	1.02220E-06	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	5.9917E-04	0.00E+00
358	ALL	744105.32	4111919.34	5.85390E-07	1.994521YrCancerHighEnd_InhSoilDermMMilkCropsChickenEgg	3.4314E-04	0.00E+00

HARP2 - HRACalc (dated 22118) 2/2/2024 7:39:43 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.994521

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.994521
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: True
Beef: False
Dairy: False
Pig: False
Chicken: True
Egg: True

****
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): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

```
**********
PIG, CHICKEN, & EGG PATHWAY SETTINGS

Surface area (m^2): 0
Volume (kg): 0
Volume changes per year: 0

Pig
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

Chicken
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

Egg
Fraction consumed from contaminated water source: 0
Fraction consumed of contaminated leafy crop: 0.25
Fraction consumed of contaminated exposed crop: 0.25
Fraction consumed of contaminated protected crop: 0.25
Fraction consumed of contaminated root crop: 0.25

**********
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: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit
```

```
ConCancerRisk.csv
Cancer risk total by receptor saved to: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit ConCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit
ConNCChronicRisk.csv
Chronic risk total by receptor saved to: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit
ConNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit
ConNCAcuteRisk.csv
Acute risk total by receptor saved to: F:\Move\0004-0016\04- HARP - UNMIT CON\hra\Unmit ConNCAcuteRiskSumByRec.csv
HRA ran successfully
```

Health Risk Assessment

Operational

Diesel Particulate Matter (DPM)

Health Risk Assessment

Benzene from

Gasoline Feuling Operations

A-Z Truck Center Project—Benzene Emissions Calculations

Project: A-Z Truck Center Project—Chowchilla, CA

Total Capacity (gallons)	60,000	(4) 10,000 gallon and (1) 20,000 gallon above ground storage tanks
Total Annual Throughput (gallons)	6,137,000	Maximum annual throughput of gasoline in gallons, approximately 6,137,000 gallons of gasoline per year based on applicant-provided information

Benzene Emissions Calculations (Based on 24-hr, 7-day per week Operations)

Storage Tank (1 of 5)	Total Capacity (gallons)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Fuel Movement (gallons)	lbs/day	g/day	g/sec
Loading			0.001260	3,363	0.004	1.9219E+00	2.2244E-05
Breathing	12,000	1,227,400	0.000075	12,000	0.001	4.0823E-01	4.7249E-06

Storage Tank (2 of 5)	Total Capacity (gallons)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Fuel Movement (gallons)	lbs/day	g/day	g/sec
Loading			0.001260	3,363	0.004	1.9219E+00	2.2244E-05
Breathing	12,000	1,227,400	0.000075	12,000	0.001	4.0823E-01	4.7249E-06

Storage Tank (3 of 5)	Total Capacity (gallons)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Fuel Movement (gallons)	lbs/day	g/day	g/sec
Loading			0.001260	3,363	0.004	1.9219E+00	2.2244E-05
Breathing	12,000	1,227,400	0.000075	12,000	0.001	4.0823E-01	4.7249E-06

Storage Tank (4 of 5)	Total Capacity (gallons)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Fuel Movement (gallons)	lbs/day	g/day	g/sec
Loading			0.001260	3,363	0.004	1.9219E+00	2.2244E-05
Breathing	12,000	1,227,400	0.000075	12,000	0.001	4.0823E-01	4.7249E-06

Storage Tanks (5 of 5)	Total Capacity (gallons)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Fuel Movement (gallons)	lbs/day	g/day	g/sec
Loading			0.001260	3,363	0.004	1.9219E+00	2.2244E-05
Breathing	12,000	1,227,400	0.000075	12,000	0.001	4.0823E-01	4.7249E-06

Fuel Dispensers (Total)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	6,137,000	0.000960	16,814	0.016	7.3215E+00	8.4740E-05
Spillage		0.002400	16,814	0.040	1.8304E+01	2.1185E-04

Sources:
BAAQMD Air Toxics NSR Program Health Risk Assessment Guidelines (2016); SCAQMD Emission Inventory and Risk Assessment Guidelines for Gasoline Dispensing Stations (2007); and CAPCOA Gasoline Service Station Industrywide Risk Assessment Guidelines (1997).
Note: Newer technologies may result in an increase in vapor capture that may not be reflected in the health risk assessment. However, the assessment represents a conservative estimate of health risk exposure.

Fuel Dispensers (Pump Station 1 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 2 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 3 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 4 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 5 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 6 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 7 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 8 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 9 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 10 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 11 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 12 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 13 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Fuel Dispensers (Pump Station 14 of 14)	Annual Throughput (gallons)	Emission Factor (lbs/1,000 gallons)	Daily Throughput (gallons)	lbs/day	g/day	g/sec
Refueling	438,357	0.000960	1,201	0.001	5.2296E-01	6.0528E-06
Spillage		0.002400	1,201	0.003	1.3074E+00	1.5132E-05

Benzene Input Summary

Parameter	Location	Source	Height (m)	Diameter (m)	Vertical dimension (m)	Release height (m)
Loading	Storage tanks	Point	3.66	0.05	-	-
Breathing	Storage tanks	Point	3.66	0.05	-	-
Refueling	Canopy	Volume	-	-	5	1
Spillage	Canopy	Volume	-	-	5	0

Assumed Hours per Day	Hours of Operation	Hours Per Day	Hours Per Year of Operations	Hours Per Year (24/day)	Factor
Sunday	24 hours	24	1,248	1,248	1.0000
Monday	24 hours	24	1,248	1,248	1.0000
Tuesday	24 hours	24	1,248	1,248	1.0000
Wednesday	24 hours	24	1,248	1,248	1.0000
Thursday	24 hours	24	1,248	1,248	1.0000
Friday	24 hours	24	1,248	1,248	1.0000
Saturday	24 hours	24	1,248	1,248	1.0000

A-Z Truck Center Project—Benzene Health Risk Calculations for Off-site Receptors

Risk Calculations

1-Hour Average Concentration:	0.24630	1-Hour concentration (µg/m3) from air dispersion model
24-Hour Average Concentration:	0.05942	24-Hour average concentration (µg/m3) from air dispersion model
Annual Average Concentration:	0.01501	annual average concentration (µg/m3) from air dispersion model

Cancer Risk

	3rd trimester	0<2 years	2<9 years	9<16 years	2<16 years	16<30 years	30<70 years	16<70 years
DOSEair = (Cair*(BR/BW)*A*EF*10^{-6})	5.20187E-06	1.57065E-05	9.09246E-06	8.24229E-06	8.24229E-06	3.76091E-06	3.35744E-06	3.35744E-06
Risk = DOSEair * CPF * ASF * ED/AT * FAH	1.85781E-08	4.48756E-07	2.72774E-07	2.47269E-07	4.94537E-07	7.52181E-08	1.91854E-07	2.59002E-07
Exposure Duration (years)	0.25	2	7	7	14	14	40	54

Cancer Risk:

	Risk	in one million	Exposure (years)
70-year exposure	1.221E-06	1.22	70
30-year exposure	1.037E-06	1.04	30
9-year exposure	7.401E-07	0.74	9

	DOSEair		mg/kg-d	Dose through inhalation
	CPF	0.1	$(mg/kg/day)^{-1}$	Cancer Potency Factor for Benzene
BR/BW	BR/BW (3rd trimester)	361	L/kg	Daily Breathing rate normalized to body weight
	BR/BW (0 < 2 years)	1,090	bodyweight-	95th percentile used for 3rd trimester and 0<2
	BR/BW (2 < 9 years)	631	day	80th percentile used for all other age bins
	BR/BW (2 < 16 years)	572		
	BR/BW (9 < 16 years)	572		
	BR/BW (16 < 30 years)	261		
	BR/BW (16 < 70 years)	233		
	10^{-6}	1.00E-06		Micrograms to milligrams conversions, liters to cubic meters conversion
	Cair	0.1	ug/m3	Concentration in air (ug/m3), modeled annual average concentration
	A	1		Inhalation absorption factor
	EF	0.96	days/year	Exposure frequency (days/year)
ED	ED (3rd trimester)	0.25	years	Exposure duration (years)
	ED (0 < 2 years)	2		
	ED (2 < 9 years)	7		
	ED (9 < 16 years)	7		
	ED (2 < 16, 16 < 30 years)	14		
	ED (16<70 years)	40		
	ED (16 - 70 years)	54		
	AT	70	years	Averaging time period over which exposure is averaged
ASF	ASF (3rd trimester - 2 years)	10		Age Sensitivity Factor
	ASF (2 - 16 years)	3		
	ASF (16 - 70 years)	1		
FAH	FAH (3rd trimester - 2 years)	1		Fraction of time spent at home (unitless)
	FAH (2 - 16 years)	1		
	FAH (16 - 70 years)	1		

Chronic Noncancer Hazard

Threshold:	1	
Hazard Quotient = Ci/RELi		
HQ =	0.005	Hazard Quotient
C_i	0.015	Concentration in the air of substance i (annual average concentration in µg/m^3)
REL_i	3	Chronic noncancer Reference Exposure Level for substance i (µg/m^3)
Chronic RELi (Benzene):	3	
Chronic RELi (Diesel Exhaust):	5	Shown for informational purposes only (not used in benzene calculations)

Acute NonCancer Hazard

Threshold:	1	
Acute HQ = Maximum Hourly Concentration/Acute REL		
Acute HQ =	0.009	Acute HQ = Maximum Hourly Air Concentration (µg/m^3) / Acute REL (µg/m^3)
Maximum Hourly	0.246	Maximum Hourly Air Concentration (µg/m^3)
Acute (Benzene):	27	Acute REL (µg/m^3)
8-hour (Benzene):	3	
Chronic (Benzene):	3	

A-Z Truck Center Project—Benzene Concentrations

AERMOD Output Files (results from actual emissions) 1-Hour and 24-Hour Results

1ST
Maximum 0.2463

ALL
Maximum 0.05942

* AERMOD (23132): F:\Move\0004-0016\03 - A-Z Benzene Ops\03- A-Z - Benzene Ops.isc 2/1/2024
* AERMET (18081): 12:59:11 PM
* MODELING OPTIONS USED: Reg DFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* PLOT FOR A FORMA X	FILE OF TOTAL OF 358 T: (3(1X,F13.5) Y	HIGH 1ST HIGH 1-HR RECEPTORS. ,3(1X,F8.2),3X, AVERAGE CONC	VALUES F A5,2X,A8, ZELEV	OR SOURCE 2X,A5,5X, ZHILL	GROUP: ALL A8,2X,I8 ZFLAG	) AVE	GRP	RANK	DATE(CONC)
744883.72	4112180.01	0.19092	74.98	74.98	1.2	1-HR	ALL	1ST	15122821
744883.04	4112057.90	0.19786	74.68	74.68	1.2	1-HR	ALL	1ST	17021322
744905.76	4112018.33	0.17272	74.68	74.68	1.2	1-HR	ALL	1ST	16120419
745077.23	4112243.47	0.09497	75.07	75.07	1.2	1-HR	ALL	1ST	16012602
745148.42	4112197.29	0.08232	74.98	74.98	1.2	1-HR	ALL	1ST	15121018
745123.32	4112441.79	0.05834	75.9	75.9	1.2	1-HR	ALL	1ST	16122407
745268.31	4112161.41	0.063	74.98	74.98	1.2	1-HR	ALL	1ST	17122618
745272.45	4112086.95	0.07155	74.98	74.98	1.2	1-HR	ALL	1ST	15121317
745273.18	4112036.39	0.07153	74.98	74.98	1.2	1-HR	ALL	1ST	16021519
745273.06	4111987.12	0.06946	74.98	74.98	1.2	1-HR	ALL	1ST	17122717
745348.71	4112216.62	0.05388	75.1	75.1	1.2	1-HR	ALL	1ST	16021118
745328.11	4112252.26	0.05443	75.29	75.29	1.2	1-HR	ALL	1ST	17122718
745300.49	4112322.03	0.05478	75.59	75.59	1.2	1-HR	ALL	1ST	16012602
745260.22	4112375.72	0.05737	75.8	75.8	1.2	1-HR	ALL	1ST	16121224
745254.22	4112420.11	0.0563	75.9	75.9	1.2	1-HR	ALL	1ST	16122320
745258.02	4112510.51	0.04328	76.2	76.2	1.2	1-HR	ALL	1ST	16010218
745253.00	4112538.25	0.04214	76.2	76.2	1.2	1-HR	ALL	1ST	16010801
745372.82	4112163.91	0.05108	74.98	74.98	1.2	1-HR	ALL	1ST	17122618
745375.68	4112101.40	0.0601	74.98	74.98	1.2	1-HR	ALL	1ST	15010417
745378.55	4112038.90	0.05699	74.98	74.98	1.2	1-HR	ALL	1ST	17021419
745381.41	4111976.39	0.05808	74.98	74.98	1.2	1-HR	ALL	1ST	17122717
745467.11	4112225.32	0.043	75.29	75.29	1.2	1-HR	ALL	1ST	15122820
745461.11	4112273.21	0.04361	75.59	75.59	1.2	1-HR	ALL	1ST	17122718
745436.03	4112325.62	0.04362	75.9	75.9	1.2	1-HR	ALL	1ST	16121805
745390.37	4112393.08	0.04733	75.98	75.98	1.2	1-HR	ALL	1ST	17021418
745361.28	4112455.52	0.04694	76.2	76.2	1.2	1-HR	ALL	1ST	16012524
745339.21	4112504.92	0.04673	76.2	76.2	1.2	1-HR	ALL	1ST	16010218
745313.63	4112560.84	0.03768	76.2	76.2	1.2	1-HR	ALL	1ST	16122407
745288.05	4112616.76	0.03699	76.23	76.23	1.2	1-HR	ALL	1ST	16120521
745205.26	4112695.21	0.03827	76.24	76.24	1.2	1-HR	ALL	1ST	16012918
745148.05	4112717.75	0.03981	76.2	76.2	1.2	1-HR	ALL	1ST	16022320
745090.83	4112740.29	0.04065	76.2	76.2	1.2	1-HR	ALL	1ST	15021408
745033.62	4112762.83	0.04079	76.2	76.2	1.2	1-HR	ALL	1ST	17020104
744976.41	4112785.36	0.03969	76.2	76.2	1.2	1-HR	ALL	1ST	15011820
744919.20	4112807.90	0.03978	76.2	76.2	1.2	1-HR	ALL	1ST	17020502
744861.98	4112830.44	0.03985	76.2	76.2	1.2	1-HR	ALL	1ST	15122917
744804.77	4112852.98	0.03938	76.2	76.2	1.2	1-HR	ALL	1ST	16021601
745473.92	4112175.38	0.04348	75.29	75.29	1.2	1-HR	ALL	1ST	17122618
745510.07	4112092.39	0.04863	75.33	75.33	1.2	1-HR	ALL	1ST	15010417
745506.10	4112050.79	0.048	75.29	75.29	1.2	1-HR	ALL	1ST	16011001
745501.28	4111981.88	0.04725	75.29	75.29	1.2	1-HR	ALL	1ST	17121817
745322.14	4111759.09	0.05557	74.69	74.69	1.2	1-HR	ALL	1ST	16022901
745298.62	4111776.61	0.05798	74.68	74.68	1.2	1-HR	ALL	1ST	16022901
745312.71	4111816.98	0.05793	74.96	74.96	1.2	1-HR	ALL	1ST	16022423
745326.42	4111866.01	0.05877	74.98	74.98	1.2	1-HR	ALL	1ST	15022204
745345.57	4111917.21	0.05975	74.98	74.98	1.2	1-HR	ALL	1ST	16011618
744826.28	4111231.40	0.03631	73.76	73.76	1.2	1-HR	ALL	1ST	15021624
744879.04	4111254.69	0.03726	73.76	73.76	1.2	1-HR	ALL	1ST	17022418
744931.79	4111277.99	0.03678	73.77	73.77	1.2	1-HR	ALL	1ST	17011721
744984.55	4111301.28	0.03699	74.07	74.07	1.2	1-HR	ALL	1ST	16121221
745037.31	4111324.57	0.03676	74.07	74.07	1.2	1-HR	ALL	1ST	17120118
745090.07	4111347.86	0.04026	74.37	74.37	1.2	1-HR	ALL	1ST	15021318
745142.83	4111371.16	0.03884	74.37	74.37	1.2	1-HR	ALL	1ST	15011320
745195.58	4111394.45	0.0371	74.38	74.38	1.2	1-HR	ALL	1ST	17122222
745248.34	4111417.74	0.03722	74.63	74.63	1.2	1-HR	ALL	1ST	15011917
745356.35	4111502.86	0.03564	74.68	74.68	1.2	1-HR	ALL	1ST	16121722
745337.26	4111562.37	0.03874	74.65	74.65	1.2	1-HR	ALL	1ST	17022704
745378.97	4111634.26	0.03886	74.68	74.68	1.2	1-HR	ALL	1ST	16121302
745363.36	4111672.09	0.0439	74.68	74.68	1.2	1-HR	ALL	1ST	16010404
745407.00	4111704.49	0.04884	74.79	74.79	1.2	1-HR	ALL	1ST	15011117
745404.60	4111767.15	0.04972	74.98	74.98	1.2	1-HR	ALL	1ST	16022423
745424.18	4111825.79	0.05001	74.98	74.98	1.2	1-HR	ALL	1ST	15022204
745443.84	4111875.16	0.04929	74.98	74.98	1.2	1-HR	ALL	1ST	16022103

* AERMOD (23132): F:\Move\0004-0016\03 - A-Z Benzene Ops\03- A-Z - Benzene Ops.isc 2/1/2024
* AERMET (18081): 12:59:11 PM
* MODELING OPTIONS USED: Reg DFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* PLOT FOR A FORMA X	FILE OF TOTAL OF 358 T: (3(1X,F13.5) Y	HIGH 1ST HIGH 24-HR RECEPTORS. ,3(1X,F8.2),3X, AVERAGE CONC	VALUES F A5,2X,A8, ZELEV	OR SOURCE 2X,A5,5X, ZHILL	GROUP: ALL A8,2X,I8 ZFLAG	) AVE	GRP	RANK	DATE(CONC)
744883.72	4112180.01	0.02148	74.98	74.98	1.2	24-HR	ALL	1ST	16012624
744883.04	4112057.90	0.04407	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
744905.76	4112018.33	0.04766	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
745077.23	4112243.47	0.01023	75.07	75.07	1.2	24-HR	ALL	1ST	16012624
745148.42	4112197.29	0.01106	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745123.32	4112441.79	0.00603	75.9	75.9	1.2	24-HR	ALL	1ST	15011624
745268.31	4112161.41	0.00868	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745272.45	4112086.95	0.00877	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745273.18	4112036.39	0.00876	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745273.06	4111987.12	0.00883	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745348.71	4112216.62	0.00713	75.1	75.1	1.2	24-HR	ALL	1ST	15120124
745328.11	4112252.26	0.00604	75.29	75.29	1.2	24-HR	ALL	1ST	15120124
745300.49	4112322.03	0.00597	75.59	75.59	1.2	24-HR	ALL	1ST	16012624
745260.22	4112375.72	0.00581	75.8	75.8	1.2	24-HR	ALL	1ST	16012624
745254.22	4112420.11	0.00502	75.9	75.9	1.2	24-HR	ALL	1ST	15011724
745258.02	4112510.51	0.00395	76.2	76.2	1.2	24-HR	ALL	1ST	15011624
745253.00	4112538.25	0.0043	76.2	76.2	1.2	24-HR	ALL	1ST	15011624
745372.82	4112163.91	0.00679	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745375.68	4112101.40	0.00698	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745378.55	4112038.90	0.00684	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745381.41	4111976.39	0.00681	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745467.11	4112225.32	0.00576	75.29	75.29	1.2	24-HR	ALL	1ST	15120124
745461.11	4112273.21	0.00481	75.59	75.59	1.2	24-HR	ALL	1ST	15120124
745436.03	4112325.62	0.00356	75.9	75.9	1.2	24-HR	ALL	1ST	15122824
745390.37	4112393.08	0.00528	75.98	75.98	1.2	24-HR	ALL	1ST	16012624
745361.28	4112455.52	0.0039	76.2	76.2	1.2	24-HR	ALL	1ST	15011724
745339.21	4112504.92	0.00432	76.2	76.2	1.2	24-HR	ALL	1ST	16010224
745313.63	4112560.84	0.00362	76.2	76.2	1.2	24-HR	ALL	1ST	15011624
745288.05	4112616.76	0.00427	76.23	76.23	1.2	24-HR	ALL	1ST	17120224
745205.26	4112695.21	0.00285	76.24	76.24	1.2	24-HR	ALL	1ST	17012624
745148.05	4112717.75	0.00322	76.2	76.2	1.2	24-HR	ALL	1ST	15120624
745090.83	4112740.29	0.00336	76.2	76.2	1.2	24-HR	ALL	1ST	15120224
745033.62	4112762.83	0.00323	76.2	76.2	1.2	24-HR	ALL	1ST	15051524
744976.41	4112785.36	0.00374	76.2	76.2	1.2	24-HR	ALL	1ST	15011824
744919.20	4112807.90	0.00321	76.2	76.2	1.2	24-HR	ALL	1ST	15011824
744861.98	4112830.44	0.00354	76.2	76.2	1.2	24-HR	ALL	1ST	15122924
744804.77	4112852.98	0.0038	76.2	76.2	1.2	24-HR	ALL	1ST	15022124
745473.92	4112175.38	0.00565	75.29	75.29	1.2	24-HR	ALL	1ST	15120124
745510.07	4112092.39	0.00544	75.33	75.33	1.2	24-HR	ALL	1ST	15121924
745506.10	4112050.79	0.00516	75.29	75.29	1.2	24-HR	ALL	1ST	16011024
745501.28	4111981.88	0.00555	75.29	75.29	1.2	24-HR	ALL	1ST	17022324
745322.14	4111759.09	0.01019	74.69	74.69	1.2	24-HR	ALL	1ST	17120424
745298.62	4111776.61	0.01081	74.68	74.68	1.2	24-HR	ALL	1ST	17120424
745312.71	4111816.98	0.01097	74.96	74.96	1.2	24-HR	ALL	1ST	16121824
745326.42	4111866.01	0.01112	74.98	74.98	1.2	24-HR	ALL	1ST	16121824
745345.57	4111917.21	0.00928	74.98	74.98	1.2	24-HR	ALL	1ST	16121824
744826.28	4111231.40	0.00522	73.76	73.76	1.2	24-HR	ALL	1ST	17020424
744879.04	4111254.69	0.00491	73.76	73.76	1.2	24-HR	ALL	1ST	15020224
744931.79	4111277.99	0.00523	73.77	73.77	1.2	24-HR	ALL	1ST	15020224
744984.55	4111301.28	0.00618	74.07	74.07	1.2	24-HR	ALL	1ST	16120624
745037.31	4111324.57	0.00745	74.07	74.07	1.2	24-HR	ALL	1ST	16120624
745090.07	4111347.86	0.00638	74.37	74.37	1.2	24-HR	ALL	1ST	16120624
745142.83	4111371.16	0.00534	74.37	74.37	1.2	24-HR	ALL	1ST	15040324
745195.58	4111394.45	0.00618	74.38	74.38	1.2	24-HR	ALL	1ST	16121724
745248.34	4111417.74	0.00634	74.63	74.63	1.2	24-HR	ALL	1ST	16121724
745356.35	4111502.86	0.00847	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745337.26	4111562.37	0.009	74.65	74.65	1.2	24-HR	ALL	1ST	16121724
745378.97	4111634.26	0.00721	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745363.36	4111672.09	0.00845	74.68	74.68	1.2	24-HR	ALL	1ST	16022724
745407.00	4111704.49	0.0084	74.79	74.79	1.2	24-HR	ALL	1ST	16012424
745404.60	4111767.15	0.00866	74.98	74.98	1.2	24-HR	ALL	1ST	16121824
745424.18	4111825.79	0.00902	74.98	74.98	1.2	24-HR	ALL	1ST	16121824
745443.84	4111875.16	0.00777	74.98	74.98	1.2	24-HR	ALL	1ST	16121824

745481.27	4111927.80	0.04834	75.25	75.25	1.2	1-HR	ALL	1ST	17021322	745481.27	4111927.80	0.00598	75.25	75.25	1.2	24-HR	ALL	1ST	16121824
744773.52	4111208.11	0.03484	73.46	73.46	1.2	1-HR	ALL	1ST	17020419	744773.52	4111208.11	0.00474	73.46	73.46	1.2	24-HR	ALL	1ST	17020424
744711.97	4111207.16	0.03631	73.43	73.43	1.2	1-HR	ALL	1ST	16020923	744711.97	4111207.16	0.0052	73.43	73.43	1.2	24-HR	ALL	1ST	15121524
744650.41	4111206.20	0.03655	73.15	73.15	1.2	1-HR	ALL	1ST	16020319	744650.41	4111206.20	0.00397	73.15	73.15	1.2	24-HR	ALL	1ST	15030624
744588.86	4111205.25	0.03417	73.15	73.15	1.2	1-HR	ALL	1ST	17122620	744588.86	4111205.25	0.00351	73.15	73.15	1.2	24-HR	ALL	1ST	17021424
744142.53	4111787.01	0.06473	73.15	73.15	1.2	1-HR	ALL	1ST	16021503	744142.53	4111787.01	0.00883	73.15	73.15	1.2	24-HR	ALL	1ST	16021824
744164.23	4111736.82	0.06271	73.15	73.15	1.2	1-HR	ALL	1ST	16022524	744164.23	4111736.82	0.00924	73.15	73.15	1.2	24-HR	ALL	1ST	16021824
744185.92	4111686.62	0.06109	73.15	73.15	1.2	1-HR	ALL	1ST	15012019	744185.92	4111686.62	0.00716	73.15	73.15	1.2	24-HR	ALL	1ST	17122124
744207.61	4111636.43	0.05891	72.87	72.87	1.2	1-HR	ALL	1ST	16021123	744207.61	4111636.43	0.00649	72.87	72.87	1.2	24-HR	ALL	1ST	16121024
744280.14	4111566.09	0.05664	73.11	73.11	1.2	1-HR	ALL	1ST	15120520	744280.14	4111566.09	0.00621	73.11	73.11	1.2	24-HR	ALL	1ST	16122724
744330.97	4111545.95	0.05666	73.15	73.15	1.2	1-HR	ALL	1ST	15021706	744330.97	4111545.95	0.00739	73.15	73.15	1.2	24-HR	ALL	1ST	15021524
743981.01	4111881.32	0.05788	73.15	73.15	1.2	1-HR	ALL	1ST	16021521	743981.01	4111881.32	0.01264	73.15	73.15	1.2	24-HR	ALL	1ST	15121724
744004.54	4111826.86	0.05698	72.97	72.97	1.2	1-HR	ALL	1ST	15010720	744004.54	4111826.86	0.01093	72.97	72.97	1.2	24-HR	ALL	1ST	16021324
744028.08	4111772.40	0.05708	72.85	72.85	1.2	1-HR	ALL	1ST	15020201	744028.08	4111772.40	0.0088	72.85	72.85	1.2	24-HR	ALL	1ST	16021324
744051.61	4111717.93	0.05023	72.84	72.84	1.2	1-HR	ALL	1ST	16021503	744051.61	4111717.93	0.00672	72.84	72.84	1.2	24-HR	ALL	1ST	16021824
744075.15	4111663.47	0.04916	72.74	72.74	1.2	1-HR	ALL	1ST	16022524	744075.15	4111663.47	0.00703	72.74	72.74	1.2	24-HR	ALL	1ST	16021824
744098.69	4111609.01	0.04824	72.56	72.56	1.2	1-HR	ALL	1ST	15012019	744098.69	4111609.01	0.00561	72.56	72.56	1.2	24-HR	ALL	1ST	17122124
744122.22	4111554.55	0.04606	72.54	72.54	1.2	1-HR	ALL	1ST	16021123	744122.22	4111554.55	0.0051	72.54	72.54	1.2	24-HR	ALL	1ST	16121024
744200.91	4111478.24	0.04498	72.53	72.53	1.2	1-HR	ALL	1ST	16012702	744200.91	4111478.24	0.00503	72.53	72.53	1.2	24-HR	ALL	1ST	16122724
744256.07	4111456.38	0.04644	72.85	72.85	1.2	1-HR	ALL	1ST	17021308	744256.07	4111456.38	0.00535	72.85	72.85	1.2	24-HR	ALL	1ST	15021524
743957.47	4111935.78	0.05538	73.15	73.15	1.2	1-HR	ALL	1ST	17013103	743957.47	4111935.78	0.01406	73.15	73.15	1.2	24-HR	ALL	1ST	15121724
743862.45	4111876.18	0.04663	72.85	72.85	1.2	1-HR	ALL	1ST	16021323	743862.45	4111876.18	0.01166	72.85	72.85	1.2	24-HR	ALL	1ST	15121724
743887.42	4111818.40	0.04634	72.69	72.69	1.2	1-HR	ALL	1ST	15011001	743887.42	4111818.40	0.00814	72.69	72.69	1.2	24-HR	ALL	1ST	16021324
743912.39	4111760.62	0.04661	72.56	72.56	1.2	1-HR	ALL	1ST	16022523	743912.39	4111760.62	0.00864	72.56	72.56	1.2	24-HR	ALL	1ST	16021324
743937.36	4111702.85	0.04683	72.54	72.54	1.2	1-HR	ALL	1ST	16022401	743937.36	4111702.85	0.00647	72.54	72.54	1.2	24-HR	ALL	1ST	17121024
743962.33	4111645.07	0.04046	72.53	72.53	1.2	1-HR	ALL	1ST	15121122	743962.33	4111645.07	0.00536	72.53	72.53	1.2	24-HR	ALL	1ST	16021824
743987.30	4111587.29	0.03998	72.24	72.24	1.2	1-HR	ALL	1ST	16020422	743987.30	4111587.29	0.00553	72.24	72.24	1.2	24-HR	ALL	1ST	16021824
744012.27	4111529.51	0.03934	72.24	72.24	1.2	1-HR	ALL	1ST	15012019	744012.27	4111529.51	0.00453	72.24	72.24	1.2	24-HR	ALL	1ST	17122124
744037.24	4111471.73	0.03762	71.93	71.93	1.2	1-HR	ALL	1ST	15010721	744037.24	4111471.73	0.00411	71.93	71.93	1.2	24-HR	ALL	1ST	16121024
744120.73	4111390.76	0.03664	71.93	71.93	1.2	1-HR	ALL	1ST	15010421	744120.73	4111390.76	0.00408	71.93	71.93	1.2	24-HR	ALL	1ST	16122724
744179.25	4111367.57	0.03843	72.24	72.24	1.2	1-HR	ALL	1ST	16121421	744179.25	4111367.57	0.00388	72.24	72.24	1.2	24-HR	ALL	1ST	15021524
744237.76	4111344.38	0.03741	72.54	72.54	1.2	1-HR	ALL	1ST	15021706	744237.76	4111344.38	0.00472	72.54	72.54	1.2	24-HR	ALL	1ST	15021524
744296.28	4111321.19	0.03809	72.85	72.85	1.2	1-HR	ALL	1ST	16021122	744296.28	4111321.19	0.00445	72.85	72.85	1.2	24-HR	ALL	1ST	17011224
744354.79	4111298.01	0.03677	72.85	72.85	1.2	1-HR	ALL	1ST	17012721	744354.79	4111298.01	0.00373	72.85	72.85	1.2	24-HR	ALL	1ST	17012724
744413.31	4111274.82	0.03768	72.85	72.85	1.2	1-HR	ALL	1ST	15021322	744413.31	4111274.82	0.00379	72.85	72.85	1.2	24-HR	ALL	1ST	16012724
744471.83	4111251.63	0.03685	72.85	72.85	1.2	1-HR	ALL	1ST	16020220	744471.83	4111251.63	0.00405	72.85	72.85	1.2	24-HR	ALL	1ST	16020324
744530.34	4111228.44	0.03565	73.13	73.13	1.2	1-HR	ALL	1ST	16011002	744530.34	4111228.44	0.0042	73.13	73.13	1.2	24-HR	ALL	1ST	16022524
743837.48	4111933.96	0.04546	72.85	72.85	1.2	1-HR	ALL	1ST	16021021	743837.48	4111933.96	0.0098	72.85	72.85	1.2	24-HR	ALL	1ST	15121724
743836.53	4111996.94	0.04679	73.15	73.15	1.2	1-HR	ALL	1ST	15021708	743836.53	4111996.94	0.00898	73.15	73.15	1.2	24-HR	ALL	1ST	15111824
743835.58	4112059.93	0.04547	73.15	73.15	1.2	1-HR	ALL	1ST	17120108	743835.58	4112059.93	0.00974	73.15	73.15	1.2	24-HR	ALL	1ST	15020424
744155.93	4112330.55	0.0774	73.61	73.61	1.2	1-HR	ALL	1ST	15013119	744155.93	4112330.55	0.01319	73.61	73.61	1.2	24-HR	ALL	1ST	17011924
744135.59	4112279.55	0.07846	73.37	73.37	1.2	1-HR	ALL	1ST	16012920	744135.59	4112279.55	0.01447	73.37	73.37	1.2	24-HR	ALL	1ST	15121024
744115.26	4112228.55	0.07715	73.15	73.15	1.2	1-HR	ALL	1ST	16120906	744115.26	4112228.55	0.01546	73.15	73.15	1.2	24-HR	ALL	1ST	15121024
744094.93	4112177.54	0.07632	73.15	73.15	1.2	1-HR	ALL	1ST	15013118	744094.93	4112177.54	0.01566	73.15	73.15	1.2	24-HR	ALL	1ST	15012324
744042.85	4112346.07	0.06102	73.67	73.67	1.2	1-HR	ALL	1ST	15012021	744042.85	4112346.07	0.01122	73.67	73.67	1.2	24-HR	ALL	1ST	16020224
744020.79	4112290.74	0.0605	73.16	73.16	1.2	1-HR	ALL	1ST	17120123	744020.79	4112290.74	0.01195	73.16	73.16	1.2	24-HR	ALL	1ST	15121024
743998.73	4112235.40	0.06085	73.41	73.41	1.2	1-HR	ALL	1ST	16021319	743998.73	4112235.40	0.01058	73.41	73.41	1.2	24-HR	ALL	1ST	15121024
744516.29	4112851.81	0.04688	76.71	76.71	1.2	1-HR	ALL	1ST	17012424	744516.29	4112851.81	0.00604	76.71	76.71	1.2	24-HR	ALL	1ST	15013124
744463.95	4112829.53	0.04656	75.91	75.91	1.2	1-HR	ALL	1ST	15010908	744463.95	4112829.53	0.00432	75.91	75.91	1.2	24-HR	ALL	1ST	17120524
744411.62	4112807.25	0.04902	74.93	74.93	1.2	1-HR	ALL	1ST	15120517	744411.62	4112807.25	0.00432	74.93	74.93	1.2	24-HR	ALL	1ST	15011224
744359.28	4112784.97	0.04668	74.68	74.68	1.2	1-HR	ALL	1ST	16123006	744359.28	4112784.97	0.00459	74.68	74.68	1.2	24-HR	ALL	1ST	16123024
744306.95	4112762.68	0.04746	74.68	74.68	1.2	1-HR	ALL	1ST	15121707	744306.95	4112762.68	0.00461	74.68	74.68	1.2	24-HR	ALL	1ST	16123024
744254.61	4112740.40	0.04739	74.68	74.68	1.2	1-HR	ALL	1ST	15121106	744254.61	4112740.40	0.00447	74.68	74.68	1.2	24-HR	ALL	1ST	17012524
744202.27	4112718.12	0.04678	74.68	74.68	1.2	1-HR	ALL	1ST	17021520	744202.27	4112718.12	0.00468	74.68	74.68	1.2	24-HR	ALL	1ST	17010924
744149.94	4112695.84	0.04547	74.68	74.68	1.2	1-HR	ALL	1ST	16022922	744149.94	4112695.84	0.00465	74.68	74.68	1.2	24-HR	ALL	1ST	17010424
744097.60	4112673.56	0.04357	74.68	74.68	1.2	1-HR	ALL	1ST	16011619	744097.60	4112673.56	0.00587	74.68	74.68	1.2	24-HR	ALL	1ST	15011824
744024.20	4112598.45	0.04295	74.68	74.68	1.2	1-HR	ALL	1ST	15121223	744024.20	4112598.45	0.006	74.68	74.68	1.2	24-HR	ALL	1ST	15011824
744003.14	4112545.61	0.0447	74.68	74.68	1.2	1-HR	ALL	1ST	16011818	744003.14	4112545.61	0.00642	74.68	74.68	1.2	24-HR	ALL	1ST	17012124
743982.07	4112492.77	0.04574	74.68	74.68	1.2	1-HR	ALL	1ST	15012822	743982.07	4112492.77	0.00675	74.68	74.68	1.2	24-HR	ALL	1ST	17011924
743961.01	4112439.93	0.05014	74.62	74.62	1.2	1-HR	ALL	1ST	15120108	743961.01	4112439.93	0.00731	74.62	74.62	1.2	24-HR	ALL	1ST	17011924
743939.95	4112387.10	0.04981	73.33	73.33	1.2	1-HR	ALL	1ST	15012021	743939.95	4112387.10	0.00904	73.33	73.33	1.2	24-HR	ALL	1ST	16020224
743918.88	4112334.26	0.04919	73.15	73.15	1.2	1-HR	ALL	1ST	17021424	743918.88	4112334.26	0.00914	73.15	73.15	1.2	24-HR	ALL	1ST	15121024
744568.63	4112874.09	0.04637	76.62	76.62	1.2	1-HR	ALL	1ST	15013108	744568.63	4112874.09	0.00765	76.62	76.62	1.2	24-HR	ALL	1ST	15013124
744628.27	4112874.56	0.04633	76.38	76.38	1.2	1-HR	ALL	1ST	17022522	744628.27	4112874.56	0.00447	76.38	76.38	1.2	24-HR	ALL	1ST	15013124
744687.91	4112875.04	0.03919	76.2	76.2	1.2	1-HR	ALL	1ST	16021224	744687.91	4112875.04	0.00319	76.2	76.2	1.2	24-HR	ALL	1ST	17011624
744747.56	4112875.52	0.03809	76.09	76.09	1.2	1-HR	ALL	1ST	15011521	744747.56	4112875.52	0.0034	76.09	76.09	1.2	24-HR	ALL	1ST	15022124
745248.53	4112488.04	0.05127	76.2	76.2	1.2	1-HR	ALL	1ST	16010218	745248.53	4112488.04	0.00432	76.2	76.2	1.2	24-HR	ALL	1ST	16010224
745256.85	4112466.99	0.05551	76.12	76.12	1.2	1-HR	ALL	1ST	16010218	745256.85	4112466.99	0.00502	76.12	76.12	1.2	24-HR	ALL	1ST	16010224
745257.34	4112441.53	0.05628	75.9	75.9	1.2	1-HR	ALL	1ST	15011706	745257.34	4112441.53	0.00516	75.9	75.9	1.2	24-HR	ALL	1ST	16010224
745256.36	4112400.41	0.05839	75.9	75.9	1.2	1-HR	ALL	1ST	17011618	745256.36	4112400.41	0.00493	75.9	75.9	1.2	24-HR	ALL	1ST	15011724
745253.91	4112355.37	0.06073	75.6	75.6	1.2	1-HR	ALL	1ST	17021418	745253.91	4112355.37	0.00668	75.6	75.6	1.2	24-HR	ALL	1ST	16012624
745291.64	4112502.70	0.04979	76.2	76.2	1.2	1-HR	ALL	1ST	16010218	745291.64	4112502.70	0.00428	76.2	76.2	1.2	24-HR	ALL	1ST	16010224
745314.73	4112502.70	0.04919	76.2	76.2	1.2	1-HR	ALL	1ST	16010218	745314.73	4112502.70	0.00439	76.2	76.2	1.2	24-HR	ALL	1ST	16010224
745360.41	4112498.69	0.04571	76.2	76.2	1.2	1-HR	ALL	1ST	15011706	745360.41	4112498.69	0.00417	76.2	76.2	1.2	24-HR	ALL	1ST	16010224
745375.47	4112542.86	0.04353	76.2	76.2	1.2	1-HR	ALL	1ST	16010218	745375.47	4112542.86	0.0038	76.2	76.2	1.2	24-HR	ALL	1ST	16010224
745293.15	4112456.02	0.05235	76.06	76.06	1.2	1-HR	ALL	1ST	15011706	745293.15	4112456.02	0.00473	76.06	76.06	1.2	24-HR	ALL	1ST	16010224
745320.76	4112458.53	0.04908	76.2	76.2	1.2	1-HR	ALL	1ST	16012424	745320.76	4112458.53	0.00429	76.2	76.2	1.2	24-HR	ALL	1ST	16010224

745341.84	4112456.02	0.04792	76.2	76.2	1.2 1-HR	ALL	1ST	16122320	745341.84	4112456.02	0.00409	76.2	76.2	1.2 24-HR	ALL	1ST	15011724
745289.30	4112422.06	0.05388	75.91	75.91	1.2 1-HR	ALL	1ST	16012524	745289.30	4112422.06	0.00459	75.91	75.91	1.2 24-HR	ALL	1ST	15011724
745316.91	4112424.57	0.0517	76.01	76.01	1.2 1-HR	ALL	1ST	16012524	745316.91	4112424.57	0.00423	76.01	76.01	1.2 24-HR	ALL	1ST	15011724
745337.99	4112422.06	0.04971	76.15	76.15	1.2 1-HR	ALL	1ST	16121224	745337.99	4112422.06	0.0043	76.15	76.15	1.2 24-HR	ALL	1ST	16012624
745259.57	4112328.70	0.05802	75.59	75.59	1.2 1-HR	ALL	1ST	15021906	745259.57	4112328.70	0.00698	75.59	75.59	1.2 24-HR	ALL	1ST	16012624
745256.46	4112307.27	0.06015	75.59	75.59	1.2 1-HR	ALL	1ST	16012602	745256.46	4112307.27	0.00658	75.59	75.59	1.2 24-HR	ALL	1ST	16012624
745474.41	4112373.37	0.04051	76.08	76.08	1.2 1-HR	ALL	1ST	16012602	745474.41	4112373.37	0.00415	76.08	76.08	1.2 24-HR	ALL	1ST	16012624
745454.23	4112346.42	0.04274	75.9	75.9	1.2 1-HR	ALL	1ST	15122821	745454.23	4112346.42	0.00378	75.9	75.9	1.2 24-HR	ALL	1ST	16012624
745384.07	4112374.07	0.04562	75.9	75.9	1.2 1-HR	ALL	1ST	15021906	745384.07	4112374.07	0.00538	75.9	75.9	1.2 24-HR	ALL	1ST	16012624
745367.38	4112356.77	0.04627	75.83	75.83	1.2 1-HR	ALL	1ST	15010418	745367.38	4112356.77	0.00545	75.83	75.83	1.2 24-HR	ALL	1ST	16012624
745428.24	4112431.29	0.04249	76.2	76.2	1.2 1-HR	ALL	1ST	17021418	745428.24	4112431.29	0.00452	76.2	76.2	1.2 24-HR	ALL	1ST	16012624
745410.04	4112410.48	0.04563	76.16	76.16	1.2 1-HR	ALL	1ST	17021418	745410.04	4112410.48	0.00496	76.16	76.16	1.2 24-HR	ALL	1ST	16012624
745381.66	4112505.09	0.04418	76.2	76.2	1.2 1-HR	ALL	1ST	15011706	745381.66	4112505.09	0.00397	76.2	76.2	1.2 24-HR	ALL	1ST	16010224
745381.49	4112454.59	0.04581	76.2	76.2	1.2 1-HR	ALL	1ST	16012524	745381.49	4112454.59	0.00368	76.2	76.2	1.2 24-HR	ALL	1ST	15011724
745365.43	4112419.45	0.04638	76.2	76.2	1.2 1-HR	ALL	1ST	16121224	745365.43	4112419.45	0.00464	76.2	76.2	1.2 24-HR	ALL	1ST	16012624
745297.16	4112374.27	0.05517	75.79	75.79	1.2 1-HR	ALL	1ST	17021418	745297.16	4112374.27	0.00601	75.79	75.79	1.2 24-HR	ALL	1ST	16012624
745324.77	4112374.27	0.05348	75.79	75.79	1.2 1-HR	ALL	1ST	17021418	745324.77	4112374.27	0.00592	75.79	75.79	1.2 24-HR	ALL	1ST	16012624
745353.38	4112334.11	0.05006	75.62	75.62	1.2 1-HR	ALL	1ST	16012602	745353.38	4112334.11	0.0052	75.62	75.62	1.2 24-HR	ALL	1ST	16012624
745349.87	4112314.53	0.05128	75.59	75.59	1.2 1-HR	ALL	1ST	15122821	745349.87	4112314.53	0.00461	75.59	75.59	1.2 24-HR	ALL	1ST	16012624
745339.83	4112296.46	0.05176	75.29	75.29	1.2 1-HR	ALL	1ST	16121805	745339.83	4112296.46	0.00444	75.29	75.29	1.2 24-HR	ALL	1ST	15122824
745275.15	4112015.28	0.06959	74.98	74.98	1.2 1-HR	ALL	1ST	17121817	745275.15	4112015.28	0.00883	74.98	74.98	1.2 24-HR	ALL	1ST	17022324
745275.15	4112064.78	0.07125	74.98	74.98	1.2 1-HR	ALL	1ST	16011001	745275.15	4112064.78	0.00845	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745271.87	4112139.99	0.06249	74.98	74.98	1.2 1-HR	ALL	1ST	15022820	745271.87	4112139.99	0.00782	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745269.90	4112111.61	0.07143	74.98	74.98	1.2 1-HR	ALL	1ST	17121318	745269.90	4112111.61	0.00861	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745322.64	4112015.82	0.06448	74.98	74.98	1.2 1-HR	ALL	1ST	16021519	745322.64	4112015.82	0.00792	74.98	74.98	1.2 24-HR	ALL	1ST	17022324
745320.68	4111987.43	0.06467	74.98	74.98	1.2 1-HR	ALL	1ST	17122717	745320.68	4111987.43	0.00784	74.98	74.98	1.2 24-HR	ALL	1ST	16011024
745319.23	4112065.32	0.06534	74.98	74.98	1.2 1-HR	ALL	1ST	16011001	745319.23	4112065.32	0.00764	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745319.82	4112039.07	0.06359	74.98	74.98	1.2 1-HR	ALL	1ST	16021519	745319.82	4112039.07	0.00781	74.98	74.98	1.2 24-HR	ALL	1ST	16011024
745317.95	4112107.99	0.06551	74.98	74.98	1.2 1-HR	ALL	1ST	15010417	745317.95	4112107.99	0.0078	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745317.26	4112089.42	0.06624	74.98	74.98	1.2 1-HR	ALL	1ST	15010417	745317.26	4112089.42	0.00792	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745317.52	4112206.56	0.05641	75	75	1.2 1-HR	ALL	1ST	16021118	745317.52	4112206.56	0.00775	75	75	1.2 24-HR	ALL	1ST	15120124
745316.41	4112182.02	0.05713	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745316.41	4112182.02	0.00797	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745320.94	4112158.56	0.05599	74.98	74.98	1.2 1-HR	ALL	1ST	15121717	745320.94	4112158.56	0.00753	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745319.82	4112134.01	0.05776	74.98	74.98	1.2 1-HR	ALL	1ST	17121318	745319.82	4112134.01	0.00694	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745467.73	4112151.30	0.04408	75.29	75.29	1.2 1-HR	ALL	1ST	15022820	745467.73	4112151.30	0.00523	75.29	75.29	1.2 24-HR	ALL	1ST	15120124
745466.61	4112126.76	0.0483	75.29	75.29	1.2 1-HR	ALL	1ST	17121318	745466.61	4112126.76	0.00551	75.29	75.29	1.2 24-HR	ALL	1ST	15121924
745510.82	4112144.05	0.04097	75.45	75.45	1.2 1-HR	ALL	1ST	16121918	745510.82	4112144.05	0.00477	75.45	75.45	1.2 24-HR	ALL	1ST	16010324
745509.71	4112119.50	0.04666	75.44	75.44	1.2 1-HR	ALL	1ST	17121318	745509.71	4112119.50	0.00525	75.44	75.44	1.2 24-HR	ALL	1ST	15121924
745462.61	4112100.95	0.05201	75.27	75.27	1.2 1-HR	ALL	1ST	15010417	745462.61	4112100.95	0.00591	75.27	75.27	1.2 24-HR	ALL	1ST	15121924
745461.49	4112076.40	0.05116	75.25	75.25	1.2 1-HR	ALL	1ST	15121317	745461.49	4112076.40	0.00585	75.25	75.25	1.2 24-HR	ALL	1ST	15121924
745474.42	4112051.55	0.05039	75.29	75.29	1.2 1-HR	ALL	1ST	16011001	745474.42	4112051.55	0.00548	75.29	75.29	1.2 24-HR	ALL	1ST	16011024
745278.38	4112259.94	0.06047	75.29	75.29	1.2 1-HR	ALL	1ST	16021407	745278.38	4112259.94	0.0058	75.29	75.29	1.2 24-HR	ALL	1ST	15122824
745275.26	4112238.52	0.06086	75.29	75.29	1.2 1-HR	ALL	1ST	17122718	745275.26	4112238.52	0.00699	75.29	75.29	1.2 24-HR	ALL	1ST	15120124
745271.98	4112208.73	0.06276	75.02	75.02	1.2 1-HR	ALL	1ST	16021118	745271.98	4112208.73	0.00837	75.02	75.02	1.2 24-HR	ALL	1ST	15120124
745268.86	4112187.31	0.06121	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745268.86	4112187.31	0.00886	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745319.49	4112230.45	0.05685	75.24	75.24	1.2 1-HR	ALL	1ST	15121018	745319.49	4112230.45	0.00704	75.24	75.24	1.2 24-HR	ALL	1ST	15120124
745261.03	4112281.24	0.06068	75.29	75.29	1.2 1-HR	ALL	1ST	15122821	745261.03	4112281.24	0.00526	75.29	75.29	1.2 24-HR	ALL	1ST	16012624
745440.69	4112250.51	0.04589	75.45	75.45	1.2 1-HR	ALL	1ST	15121018	745440.69	4112250.51	0.00553	75.45	75.45	1.2 24-HR	ALL	1ST	15120124
745405.69	4112277.39	0.04729	75.42	75.42	1.2 1-HR	ALL	1ST	16021407	745405.69	4112277.39	0.00477	75.42	75.42	1.2 24-HR	ALL	1ST	15120124
745418.92	4112293.18	0.04659	75.58	75.58	1.2 1-HR	ALL	1ST	16021407	745418.92	4112293.18	0.00427	75.58	75.58	1.2 24-HR	ALL	1ST	16012724
745405.27	4112214.24	0.04757	75.08	75.08	1.2 1-HR	ALL	1ST	15122820	745405.27	4112214.24	0.00651	75.08	75.08	1.2 24-HR	ALL	1ST	15120124
745430.02	4112203.14	0.04595	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745430.02	4112203.14	0.00631	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745303.73	4111937.03	0.06411	74.98	74.98	1.2 1-HR	ALL	1ST	16011618	745303.73	4111937.03	0.00998	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745291.76	4111922.16	0.0645	74.98	74.98	1.2 1-HR	ALL	1ST	16011618	745291.76	4111922.16	0.01093	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745276.16	4111911.64	0.06575	74.91	74.91	1.2 1-HR	ALL	1ST	16012706	745276.16	4111911.64	0.01189	74.91	74.91	1.2 24-HR	ALL	1ST	16121824
745373.37	4111909.10	0.05688	74.98	74.98	1.2 1-HR	ALL	1ST	16011618	745373.37	4111909.10	0.00871	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745404.21	4111900.03	0.05395	74.98	74.98	1.2 1-HR	ALL	1ST	16011618	745404.21	4111900.03	0.00815	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745358.86	4111860.49	0.05447	74.98	74.98	1.2 1-HR	ALL	1ST	15022204	745358.86	4111860.49	0.01024	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745382.08	4111851.06	0.05256	74.98	74.98	1.2 1-HR	ALL	1ST	15022204	745382.08	4111851.06	0.00974	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745457.53	4111901.12	0.04934	74.98	74.98	1.2 1-HR	ALL	1ST	16120907	745457.53	4111901.12	0.00696	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745362.13	4111802.45	0.05297	74.98	74.98	1.2 1-HR	ALL	1ST	16120207	745362.13	4111802.45	0.00999	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745341.81	4111813.70	0.05484	74.98	74.98	1.2 1-HR	ALL	1ST	16120207	745341.81	4111813.70	0.01052	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
745429.96	4111853.24	0.04967	74.98	74.98	1.2 1-HR	ALL	1ST	16010302	745429.96	4111853.24	0.00851	74.98	74.98	1.2 24-HR	ALL	1ST	16121824
743880.64	4111859.77	0.04742	72.85	72.85	1.2 1-HR	ALL	1ST	16021521	743880.64	4111859.77	0.0111	72.85	72.85	1.2 24-HR	ALL	1ST	15121724
743834.97	4111896.04	0.04456	72.82	72.82	1.2 1-HR	ALL	1ST	16020508	743834.97	4111896.04	0.01111	72.82	72.82	1.2 24-HR	ALL	1ST	15121724
743858.78	4111715.17	0.04224	72.45	72.45	1.2 1-HR	ALL	1ST	16021322	743858.78	4111715.17	0.00735	72.45	72.45	1.2 24-HR	ALL	1ST	16021324
743873.49	4111700.08	0.04261	72.29	72.29	1.2 1-HR	ALL	1ST	15020418	743873.49	4111700.08	0.00676	72.29	72.29	1.2 24-HR	ALL	1ST	16021324
743912.57	4111668.73	0.04185	72.35	72.35	1.2 1-HR	ALL	1ST	16022401	743912.57	4111668.73	0.00541	72.35	72.35	1.2 24-HR	ALL	1ST	17121024
743937.34	4111645.13	0.03972	72.36	72.36	1.2 1-HR	ALL	1ST	16021503	743937.34	4111645.13	0.00496	72.36	72.36	1.2 24-HR	ALL	1ST	16021824
743952.82	4111631.97	0.03948	72.41	72.41	1.2 1-HR	ALL	1ST	16012908	743952.82	4111631.97	0.00527	72.41	72.41	1.2 24-HR	ALL	1ST	16021824
743834.02	4111731.03	0.04121	72.46	72.46	1.2 1-HR	ALL	1ST	15011123	743834.02	4111731.03	0.00744	72.46	72.46	1.2 24-HR	ALL	1ST	16021324
743817.76	4111746.51	0.04025	72.47	72.47	1.2 1-HR	ALL	1ST	15010720	743817.76	4111746.51	0.00723	72.47	72.47	1.2 24-HR	ALL	1ST	16021324
743776.23	4111852.09	0.0404	72.54	72.54	1.2 1-HR	ALL	1ST	16021323	743776.23	4111852.09	0.01001	72.54	72.54	1.2 24-HR	ALL	1ST	15121724
743794.40	4111875.02	0.04126	72.54	72.54	1.2 1-HR	ALL	1ST	16012101	743794.40	4111875.02	0.01043	72.54	72.54	1.2 24-HR	ALL	1ST	15121724
743805.59	4111886.76	0.04245	72.63	72.63	1.2 1-HR	ALL	1ST	16020508	743805.59	4111886.76	0.01055	72.63	72.63	1.2 24-HR	ALL	1ST	15121724
743824.04	4111899.62	0.0435	72.81	72.81	1.2 1-HR	ALL	1ST	16020508	743824.04	4111899.62	0.01074	72.81	72.81	1.2 24-HR	ALL	1ST	15121724
744140.05	4111952.04	0.08324	73.15	73.15	1.2 1-HR	ALL	1ST	16021323	744140.05	4111952.04	0.02163	73.15	73.15	1.2 24-HR	ALL	1ST	15121724

744131.50	4111942.17	0.08133	73.15	73.15	1.2 1-HR	ALL	1ST	16021521	744131.50	4111942.17	0.02018	73.15	73.15	1.2 24-HR	ALL	1ST	15121724
744047.61	4111960.92	0.06704	73.15	73.15	1.2 1-HR	ALL	1ST	17013103	744047.61	4111960.92	0.01732	73.15	73.15	1.2 24-HR	ALL	1ST	15121724
744024.91	4111970.46	0.06506	73.15	73.15	1.2 1-HR	ALL	1ST	16022921	744024.91	4111970.46	0.01539	73.15	73.15	1.2 24-HR	ALL	1ST	15121724
744042.01	4111987.57	0.06726	73.15	73.15	1.2 1-HR	ALL	1ST	16021021	744042.01	4111987.57	0.01514	73.15	73.15	1.2 24-HR	ALL	1ST	15111824
744010.76	4112034.61	0.06375	73.15	73.15	1.2 1-HR	ALL	1ST	16021501	744010.76	4112034.61	0.01248	73.15	73.15	1.2 24-HR	ALL	1ST	15112024
743965.69	4112041.52	0.05776	73.15	73.15	1.2 1-HR	ALL	1ST	17122721	743965.69	4112041.52	0.0114	73.15	73.15	1.2 24-HR	ALL	1ST	15020424
743977.29	4112014.98	0.06044	73.15	73.15	1.2 1-HR	ALL	1ST	15021708	743977.29	4112014.98	0.01219	73.15	73.15	1.2 24-HR	ALL	1ST	15111824
743842.02	4112145.60	0.0473	73.15	73.15	1.2 1-HR	ALL	1ST	15021208	743842.02	4112145.60	0.01108	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743829.16	4112164.34	0.04587	73.15	73.15	1.2 1-HR	ALL	1ST	16022222	743829.16	4112164.34	0.01051	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743859.92	4112160.57	0.04826	73.15	73.15	1.2 1-HR	ALL	1ST	16022222	743859.92	4112160.57	0.01119	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743847.06	4112179.30	0.04741	73.15	73.15	1.2 1-HR	ALL	1ST	15121108	743847.06	4112179.30	0.01029	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743882.57	4112183.78	0.05013	73.15	73.15	1.2 1-HR	ALL	1ST	16012905	743882.57	4112183.78	0.01064	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743869.71	4112202.52	0.04884	73.15	73.15	1.2 1-HR	ALL	1ST	16121408	743869.71	4112202.52	0.00934	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743901.03	4112200.28	0.0515	73.15	73.15	1.2 1-HR	ALL	1ST	16121408	743901.03	4112200.28	0.00986	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743888.17	4112219.02	0.05041	73.15	73.15	1.2 1-HR	ALL	1ST	15013118	743888.17	4112219.02	0.00912	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743929.84	4112230.48	0.05358	73.15	73.15	1.2 1-HR	ALL	1ST	17020904	743929.84	4112230.48	0.00921	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743916.97	4112249.22	0.05174	73.15	73.15	1.2 1-HR	ALL	1ST	16021319	743916.97	4112249.22	0.00868	73.15	73.15	1.2 24-HR	ALL	1ST	15121024
743915.58	4112214.82	0.05293	73.15	73.15	1.2 1-HR	ALL	1ST	15013118	743915.58	4112214.82	0.00967	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743902.71	4112233.56	0.051	73.15	73.15	1.2 1-HR	ALL	1ST	17020904	743902.71	4112233.56	0.00876	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743908.58	4112139.59	0.05282	73.15	73.15	1.2 1-HR	ALL	1ST	15021208	743908.58	4112139.59	0.01267	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743895.72	4112158.33	0.05132	73.15	73.15	1.2 1-HR	ALL	1ST	16022222	743895.72	4112158.33	0.01201	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743922.29	4112153.57	0.05378	73.15	73.15	1.2 1-HR	ALL	1ST	15021208	743922.29	4112153.57	0.01278	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743909.42	4112172.31	0.05284	73.15	73.15	1.2 1-HR	ALL	1ST	15121108	743909.42	4112172.31	0.01173	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743935.57	4112173.15	0.05524	73.15	73.15	1.2 1-HR	ALL	1ST	15121108	743935.57	4112173.15	0.01222	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743922.71	4112191.89	0.05356	73.15	73.15	1.2 1-HR	ALL	1ST	16121408	743922.71	4112191.89	0.01073	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743949.27	4112187.13	0.05615	73.15	73.15	1.2 1-HR	ALL	1ST	16121408	743949.27	4112187.13	0.0115	73.15	73.15	1.2 24-HR	ALL	1ST	17121224
743936.41	4112205.87	0.05534	73.15	73.15	1.2 1-HR	ALL	1ST	15013118	743936.41	4112205.87	0.01033	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743960.88	4112199.72	0.05791	73.15	73.15	1.2 1-HR	ALL	1ST	15013118	743960.88	4112199.72	0.01102	73.15	73.15	1.2 24-HR	ALL	1ST	15012324
743948.02	4112218.46	0.0547	73.21	73.21	1.2 1-HR	ALL	1ST	17020904	743948.02	4112218.46	0.01002	73.21	73.21	1.2 24-HR	ALL	1ST	15012324
744314.29	4112403.08	0.08841	74.68	74.68	1.2 1-HR	ALL	1ST	15011503	744314.29	4112403.08	0.01628	74.68	74.68	1.2 24-HR	ALL	1ST	15011824
744927.37	4112023.03	0.16339	74.68	74.68	1.2 1-HR	ALL	1ST	15022021	744927.37	4112023.03	0.04097	74.68	74.68	1.2 24-HR	ALL	1ST	16121824
744886.26	4112033.38	0.18898	74.68	74.68	1.2 1-HR	ALL	1ST	15022021	744886.26	4112033.38	0.0518	74.68	74.68	1.2 24-HR	ALL	1ST	16121824
744863.32	4112053.80	0.20974	74.68	74.68	1.2 1-HR	ALL	1ST	17021322	744863.32	4112053.80	0.0545	74.68	74.68	1.2 24-HR	ALL	1ST	16121824
744840.95	4112066.10	0.23238	74.68	74.68	1.2 1-HR	ALL	1ST	17021322	744840.95	4112066.10	0.05942	74.68	74.68	1.2 24-HR	ALL	1ST	16121824
744839.55	4112096.31	0.2463	74.68	74.68	1.2 1-HR	ALL	1ST	16011001	744839.55	4112096.31	0.04658	74.68	74.68	1.2 24-HR	ALL	1ST	15121924
744867.80	4112111.13	0.22436	74.68	74.68	1.2 1-HR	ALL	1ST	15010417	744867.80	4112111.13	0.03744	74.68	74.68	1.2 24-HR	ALL	1ST	15121924
744887.10	4112101.35	0.20801	74.68	74.68	1.2 1-HR	ALL	1ST	15010417	744887.10	4112101.35	0.03466	74.68	74.68	1.2 24-HR	ALL	1ST	15121924
744887.73	4112135.02	0.18939	74.84	74.84	1.2 1-HR	ALL	1ST	15021224	744887.73	4112135.02	0.03208	74.84	74.84	1.2 24-HR	ALL	1ST	15120124
744884.11	4112197.54	0.18754	74.98	74.98	1.2 1-HR	ALL	1ST	17021418	744884.11	4112197.54	0.02459	74.98	74.98	1.2 24-HR	ALL	1ST	16012624
744880.82	4112221.56	0.19117	75.06	75.06	1.2 1-HR	ALL	1ST	16121224	744880.82	4112221.56	0.0204	75.06	75.06	1.2 24-HR	ALL	1ST	16012624
744899.25	4112238.68	0.17222	75.02	75.02	1.2 1-HR	ALL	1ST	17011618	744899.25	4112238.68	0.01819	75.02	75.02	1.2 24-HR	ALL	1ST	15011724
744918.00	4112238.02	0.16094	75.02	75.02	1.2 1-HR	ALL	1ST	16121224	744918.00	4112238.02	0.01659	75.02	75.02	1.2 24-HR	ALL	1ST	16012624
744941.04	4112237.03	0.14497	74.99	74.99	1.2 1-HR	ALL	1ST	17021418	744941.04	4112237.03	0.01719	74.99	74.99	1.2 24-HR	ALL	1ST	16012624
744960.45	4112240.32	0.13834	74.98	74.98	1.2 1-HR	ALL	1ST	17021418	744960.45	4112240.32	0.01643	74.98	74.98	1.2 24-HR	ALL	1ST	16012624
744988.42	4112236.37	0.12413	74.98	74.98	1.2 1-HR	ALL	1ST	17021418	744988.42	4112236.37	0.01546	74.98	74.98	1.2 24-HR	ALL	1ST	16012624
745008.82	4112236.37	0.11132	74.98	74.98	1.2 1-HR	ALL	1ST	15021906	745008.82	4112236.37	0.01414	74.98	74.98	1.2 24-HR	ALL	1ST	16012624
745033.50	4112238.02	0.10669	75	75	1.2 1-HR	ALL	1ST	16012602	745033.50	4112238.02	0.01257	75	75	1.2 24-HR	ALL	1ST	16012624
745051.27	4112239.00	0.10234	75.03	75.03	1.2 1-HR	ALL	1ST	16012602	745051.27	4112239.00	0.01146	75.03	75.03	1.2 24-HR	ALL	1ST	16012624
744928.20	4112193.92	0.158	74.98	74.98	1.2 1-HR	ALL	1ST	15122821	744928.20	4112193.92	0.01739	74.98	74.98	1.2 24-HR	ALL	1ST	16012624
744948.61	4112193.92	0.14537	74.98	74.98	1.2 1-HR	ALL	1ST	15021508	744948.61	4112193.92	0.01532	74.98	74.98	1.2 24-HR	ALL	1ST	15122824
744930.51	4112150.16	0.15932	74.98	74.98	1.2 1-HR	ALL	1ST	16021118	744930.51	4112150.16	0.02587	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
744950.91	4112150.16	0.14502	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	744950.91	4112150.16	0.02382	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
744932.15	4112107.71	0.17741	74.91	74.91	1.2 1-HR	ALL	1ST	15010417	744932.15	4112107.71	0.02671	74.91	74.91	1.2 24-HR	ALL	1ST	15121924
744952.55	4112107.71	0.16521	74.91	74.91	1.2 1-HR	ALL	1ST	15010417	744952.55	4112107.71	0.02423	74.91	74.91	1.2 24-HR	ALL	1ST	15121924
744974.60	4112111.00	0.15119	74.97	74.97	1.2 1-HR	ALL	1ST	15010417	744974.60	4112111.00	0.02162	74.97	74.97	1.2 24-HR	ALL	1ST	15121924
744995.00	4112111.00	0.14154	74.98	74.98	1.2 1-HR	ALL	1ST	15010417	744995.00	4112111.00	0.01985	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745018.69	4112110.67	0.13178	74.98	74.98	1.2 1-HR	ALL	1ST	15010417	745018.69	4112110.67	0.01811	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745039.10	4112110.67	0.12403	74.98	74.98	1.2 1-HR	ALL	1ST	15010417	745039.10	4112110.67	0.01678	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745063.12	4112111.33	0.11563	74.98	74.98	1.2 1-HR	ALL	1ST	17121318	745063.12	4112111.33	0.01538	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745083.52	4112111.33	0.10944	74.98	74.98	1.2 1-HR	ALL	1ST	17121318	745083.52	4112111.33	0.01436	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745108.53	4112111.66	0.10253	74.98	74.98	1.2 1-HR	ALL	1ST	17121318	745108.53	4112111.66	0.01325	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
745128.93	4112111.66	0.09745	74.98	74.98	1.2 1-HR	ALL	1ST	17121318	745128.93	4112111.66	0.01245	74.98	74.98	1.2 24-HR	ALL	1ST	15121924
744973.61	4112195.57	0.13432	74.98	74.98	1.2 1-HR	ALL	1ST	15021508	744973.61	4112195.57	0.01445	74.98	74.98	1.2 24-HR	ALL	1ST	15122824
744994.02	4112195.57	0.12633	74.98	74.98	1.2 1-HR	ALL	1ST	16021407	744994.02	4112195.57	0.0139	74.98	74.98	1.2 24-HR	ALL	1ST	15122824
744973.94	4112151.48	0.13447	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	744973.94	4112151.48	0.02171	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
744994.34	4112151.48	0.12655	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	744994.34	4112151.48	0.02008	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745019.35	4112152.79	0.11713	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745019.35	4112152.79	0.0183	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745039.75	4112152.79	0.1103	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745039.75	4112152.79	0.01701	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745019.35	4112194.25	0.11613	74.98	74.98	1.2 1-HR	ALL	1ST	16021407	745019.35	4112194.25	0.0137	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745039.75	4112194.25	0.10844	74.98	74.98	1.2 1-HR	ALL	1ST	17122718	745039.75	4112194.25	0.01344	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745064.10	4112196.56	0.10163	74.98	74.98	1.2 1-HR	ALL	1ST	17122718	745064.10	4112196.56	0.01272	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745084.51	4112196.56	0.09633	74.98	74.98	1.2 1-HR	ALL	1ST	17122718	745084.51	4112196.56	0.01237	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745064.76	4112155.10	0.10252	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745064.76	4112155.10	0.01562	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745085.16	4112155.10	0.09676	74.98	74.98	1.2 1-HR	ALL	1ST	15021224	745085.16	4112155.10	0.01459	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745107.87	4112154.44	0.09094	74.98	74.98	1.2 1-HR	ALL	1ST	17122618	745107.87	4112154.44	0.01354	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745128.27	4112154.44	0.08652	74.98	74.98	1.2 1-HR	ALL	1ST	17122618	745128.27	4112154.44	0.01269	74.98	74.98	1.2 24-HR	ALL	1ST	15120124
745109.18	4112197.54	0.09056	74.98	74.98	1.2 1-HR	ALL	1ST	15121018	745109.18	4112197.54	0.01181	74.98	74.98	1.2 24-HR	ALL	1ST	15120124

745129.59	4112197.54	0.08636	74.98	74.98	1.2	1-HR	ALL	1ST	15121018	745129.59	4112197.54	0.01142	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745102.27	4112239.33	0.08887	75.03	75.03	1.2	1-HR	ALL	1ST	15122821	745102.27	4112239.33	0.00845	75.03	75.03	1.2	24-HR	ALL	1ST	16012624
745122.68	4112239.33	0.08356	75.03	75.03	1.2	1-HR	ALL	1ST	16121805	745122.68	4112239.33	0.00786	75.03	75.03	1.2	24-HR	ALL	1ST	15122824
745139.49	4112241.44	0.08051	75.05	75.05	1.2	1-HR	ALL	1ST	15021508	745139.49	4112241.44	0.00761	75.05	75.05	1.2	24-HR	ALL	1ST	15122824
745166.98	4112244.15	0.0759	75.08	75.08	1.2	1-HR	ALL	1ST	15021508	745166.98	4112244.15	0.00726	75.08	75.08	1.2	24-HR	ALL	1ST	15122824
745190.60	4112238.73	0.07323	75.02	75.02	1.2	1-HR	ALL	1ST	16021407	745190.60	4112238.73	0.00731	75.02	75.02	1.2	24-HR	ALL	1ST	15122824
745197.18	4112218.98	0.07244	74.99	74.99	1.2	1-HR	ALL	1ST	17122718	745197.18	4112218.98	0.00881	74.99	74.99	1.2	24-HR	ALL	1ST	15120124
745193.31	4112195.75	0.0744	74.98	74.98	1.2	1-HR	ALL	1ST	16021118	745193.31	4112195.75	0.01022	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745194.47	4112177.55	0.07222	74.98	74.98	1.2	1-HR	ALL	1ST	15021224	745194.47	4112177.55	0.01067	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745196.02	4112152.39	0.07315	74.98	74.98	1.2	1-HR	ALL	1ST	17122618	745196.02	4112152.39	0.01028	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745196.02	4112134.19	0.07327	74.98	74.98	1.2	1-HR	ALL	1ST	15022820	745196.02	4112134.19	0.00935	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745151.11	4112158.20	0.08156	74.98	74.98	1.2	1-HR	ALL	1ST	17122618	745151.11	4112158.20	0.01192	74.98	74.98	1.2	24-HR	ALL	1ST	15120124
745150.72	4112116.38	0.09141	74.98	74.98	1.2	1-HR	ALL	1ST	17121318	745150.72	4112116.38	0.01146	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745195.24	4112089.28	0.08407	74.98	74.98	1.2	1-HR	ALL	1ST	15121317	745195.24	4112089.28	0.01067	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745197.18	4112071.47	0.0837	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745197.18	4112071.47	0.01041	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745202.21	4112051.34	0.08072	74.98	74.98	1.2	1-HR	ALL	1ST	16021519	745202.21	4112051.34	0.01048	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745192.92	4112034.30	0.08402	74.98	74.98	1.2	1-HR	ALL	1ST	16021519	745192.92	4112034.30	0.01093	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745166.59	4112025.39	0.08827	74.98	74.98	1.2	1-HR	ALL	1ST	17121817	745166.59	4112025.39	0.01188	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
744946.39	4112019.92	0.15436	74.68	74.68	1.2	1-HR	ALL	1ST	16011618	744946.39	4112019.92	0.03676	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
744966.79	4112019.92	0.14613	74.68	74.68	1.2	1-HR	ALL	1ST	16011618	744966.79	4112019.92	0.03226	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
744988.84	4112023.21	0.13628	74.68	74.68	1.2	1-HR	ALL	1ST	16120907	744988.84	4112023.21	0.02744	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
745009.24	4112023.21	0.12851	74.68	74.68	1.2	1-HR	ALL	1ST	17021322	745009.24	4112023.21	0.02418	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
745032.93	4112022.88	0.12154	74.68	74.68	1.2	1-HR	ALL	1ST	17021322	745032.93	4112022.88	0.02105	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
745053.34	4112022.88	0.11484	74.68	74.68	1.2	1-HR	ALL	1ST	17021322	745053.34	4112022.88	0.01874	74.68	74.68	1.2	24-HR	ALL	1ST	16121824
745077.36	4112023.54	0.10808	74.7	74.7	1.2	1-HR	ALL	1ST	17122717	745077.36	4112023.54	0.01634	74.7	74.7	1.2	24-HR	ALL	1ST	16121824
745097.76	4112023.54	0.10383	74.9	74.9	1.2	1-HR	ALL	1ST	17122717	745097.76	4112023.54	0.0148	74.9	74.9	1.2	24-HR	ALL	1ST	16011024
745122.77	4112023.87	0.09811	74.97	74.97	1.2	1-HR	ALL	1ST	17122717	745122.77	4112023.87	0.01364	74.97	74.97	1.2	24-HR	ALL	1ST	16011024
745143.17	4112023.87	0.09311	74.97	74.97	1.2	1-HR	ALL	1ST	17122717	745143.17	4112023.87	0.01278	74.97	74.97	1.2	24-HR	ALL	1ST	16011024
744930.35	4112070.88	0.17344	74.68	74.68	1.2	1-HR	ALL	1ST	16021519	744930.35	4112070.88	0.02929	74.68	74.68	1.2	24-HR	ALL	1ST	16011024
744950.75	4112070.88	0.16242	74.68	74.68	1.2	1-HR	ALL	1ST	16021519	744950.75	4112070.88	0.02634	74.68	74.68	1.2	24-HR	ALL	1ST	16011024
744972.80	4112074.17	0.14924	74.8	74.8	1.2	1-HR	ALL	1ST	16021519	744972.80	4112074.17	0.02331	74.8	74.8	1.2	24-HR	ALL	1ST	16011024
744993.20	4112074.17	0.1383	74.91	74.91	1.2	1-HR	ALL	1ST	16021519	744993.20	4112074.17	0.02114	74.91	74.91	1.2	24-HR	ALL	1ST	16011024
745016.89	4112073.84	0.12855	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745016.89	4112073.84	0.01901	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745037.29	4112073.84	0.12228	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745037.29	4112073.84	0.01742	74.98	74.98	1.2	24-HR	ALL	1ST	16011024
745061.31	4112074.50	0.11558	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745061.31	4112074.50	0.01586	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745081.72	4112074.50	0.10991	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745081.72	4112074.50	0.0148	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745106.72	4112074.83	0.10344	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745106.72	4112074.83	0.01365	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745127.13	4112074.83	0.09842	74.98	74.98	1.2	1-HR	ALL	1ST	16011001	745127.13	4112074.83	0.01281	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745148.92	4112079.55	0.09316	74.98	74.98	1.2	1-HR	ALL	1ST	15010717	745148.92	4112079.55	0.01207	74.98	74.98	1.2	24-HR	ALL	1ST	15121924
745415.63	4111798.24	0.049	74.98	74.98	1.2	1-HR	ALL	1ST	16121818	745415.63	4111798.24	0.00919	74.98	74.98	1.2	24-HR	ALL	1ST	16121824
745354.45	4111758.74	0.05278	74.8	74.8	1.2	1-HR	ALL	1ST	17011520	745354.45	4111758.74	0.00963	74.8	74.8	1.2	24-HR	ALL	1ST	17120424
745331.61	4111720.02	0.0531	74.68	74.68	1.2	1-HR	ALL	1ST	15011117	745331.61	4111720.02	0.00967	74.68	74.68	1.2	24-HR	ALL	1ST	16022724
745356.39	4111721.57	0.05313	74.68	74.68	1.2	1-HR	ALL	1ST	15011117	745356.39	4111721.57	0.00917	74.68	74.68	1.2	24-HR	ALL	1ST	16022724
745299.08	4111706.86	0.04848	74.68	74.68	1.2	1-HR	ALL	1ST	16022918	745299.08	4111706.86	0.00949	74.68	74.68	1.2	24-HR	ALL	1ST	16022724
745310.31	4111671.62	0.04354	74.68	74.68	1.2	1-HR	ALL	1ST	16122423	745310.31	4111671.62	0.00858	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745338.58	4111661.94	0.04198	74.68	74.68	1.2	1-HR	ALL	1ST	16121302	745338.58	4111661.94	0.00786	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745402.47	4111737.45	0.04859	74.97	74.97	1.2	1-HR	ALL	1ST	17011520	745402.47	4111737.45	0.00873	74.97	74.97	1.2	24-HR	ALL	1ST	17120424
745417.95	4111676.66	0.04643	74.81	74.81	1.2	1-HR	ALL	1ST	15011117	745417.95	4111676.66	0.0082	74.81	74.81	1.2	24-HR	ALL	1ST	16022724
745422.21	4111652.65	0.04303	74.78	74.78	1.2	1-HR	ALL	1ST	16010404	745422.21	4111652.65	0.00793	74.78	74.78	1.2	24-HR	ALL	1ST	16022724
745432.67	4111623.22	0.03674	74.68	74.68	1.2	1-HR	ALL	1ST	16022918	745432.67	4111623.22	0.00718	74.68	74.68	1.2	24-HR	ALL	1ST	16022724
745443.90	4111597.67	0.03509	74.68	74.68	1.2	1-HR	ALL	1ST	16121302	745443.90	4111597.67	0.00636	74.68	74.68	1.2	24-HR	ALL	1ST	16022724
745449.32	4111570.95	0.03411	74.68	74.68	1.2	1-HR	ALL	1ST	17121608	745449.32	4111570.95	0.00643	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745461.32	4111539.98	0.03299	74.68	74.68	1.2	1-HR	ALL	1ST	17121608	745461.32	4111539.98	0.0065	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745447.38	4111508.23	0.03268	74.68	74.68	1.2	1-HR	ALL	1ST	17120220	745447.38	4111508.23	0.00698	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745356.39	4111620.51	0.04	74.68	74.68	1.2	1-HR	ALL	1ST	17121608	745356.39	4111620.51	0.00802	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745318.44	4111619.35	0.04163	74.68	74.68	1.2	1-HR	ALL	1ST	17120220	745318.44	4111619.35	0.00912	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745316.89	4111589.54	0.04085	74.68	74.68	1.2	1-HR	ALL	1ST	15012818	745316.89	4111589.54	0.0094	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745370.71	4111570.18	0.03759	74.68	74.68	1.2	1-HR	ALL	1ST	17120220	745370.71	4111570.18	0.00818	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745390.46	4111584.89	0.0371	74.68	74.68	1.2	1-HR	ALL	1ST	16021201	745390.46	4111584.89	0.00757	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745407.11	4111546.17	0.03537	74.68	74.68	1.2	1-HR	ALL	1ST	17120220	745407.11	4111546.17	0.00754	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745374.59	4111526.42	0.03598	74.68	74.68	1.2	1-HR	ALL	1ST	17022704	745374.59	4111526.42	0.00828	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745371.10	4111462.92	0.03436	74.68	74.68	1.2	1-HR	ALL	1ST	17021323	745371.10	4111462.92	0.00789	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
745395.50	4111477.25	0.0338	74.68	74.68	1.2	1-HR	ALL	1ST	16012008	745395.50	4111477.25	0.00783	74.68	74.68	1.2	24-HR	ALL	1ST	16121724
744105.32	4111919.34	0.0756	73.15	73.15	1.2	1-HR	ALL	1ST	16021521	744105.32	4111919.34	0.01654	73.15	73.15	1.2	24-HR	ALL	1ST	15121724

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

A-Z Truck Center Project—Benzene Concentrations

AERMOD Output Files (results from actual emissions) Annual Results

ANNUAL
Maximum 0.01501
UTM
X Y

* AERMOD (23132): F:\Move\0004-0016\03 - A-Z Benzene Ops\03- A-Z - Benzene Ops.isc 2/1/2024
* AERMET (18081): 12:59:11 PM
* MODELING OPTIONS USED: Reg DFAULT CONC ELEV FLGPOL URBAN ADJ_U*
* PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 3 YEARS FOR SOUR CE GROUP : ALL
* FOR A TOTAL OF 358 RECEPTORS.
* FORMA T: (3(1X,F13.5) ,3(1X,F8.2),2X, A6,2X,A8, 2X,I8.8,2 X,A8)
* X Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE GRP NUM YRS
*

744883.72	4112180.01	0.00399	74.98	74.98	1.2	ANNUAL	ALL	3
744883.04	4112057.90	0.01082	74.68	74.68	1.2	ANNUAL	ALL	3
744905.76	4112018.33	0.01157	74.68	74.68	1.2	ANNUAL	ALL	3
745077.23	4112243.47	0.00143	75.07	75.07	1.2	ANNUAL	ALL	3
745148.42	4112197.29	0.00136	74.98	74.98	1.2	ANNUAL	ALL	3
745123.32	4112441.79	0.00076	75.9	75.9	1.2	ANNUAL	ALL	3
745268.31	4112161.41	0.00109	74.98	74.98	1.2	ANNUAL	ALL	3
745272.45	4112086.95	0.00139	74.98	74.98	1.2	ANNUAL	ALL	3
745273.18	4112036.39	0.00167	74.98	74.98	1.2	ANNUAL	ALL	3
745273.06	4111987.12	0.00202	74.98	74.98	1.2	ANNUAL	ALL	3
745348.71	4112216.62	0.0008	75.1	75.1	1.2	ANNUAL	ALL	3
745328.11	4112252.26	0.00077	75.29	75.29	1.2	ANNUAL	ALL	3
745300.49	4112322.03	0.00069	75.59	75.59	1.2	ANNUAL	ALL	3
745260.22	4112375.72	0.00068	75.8	75.8	1.2	ANNUAL	ALL	3
745254.22	4112420.11	0.00063	75.9	75.9	1.2	ANNUAL	ALL	3
745258.02	4112510.51	0.00053	76.2	76.2	1.2	ANNUAL	ALL	3
745253.00	4112538.25	0.00051	76.2	76.2	1.2	ANNUAL	ALL	3
745372.82	4112163.91	0.00085	74.98	74.98	1.2	ANNUAL	ALL	3
745375.68	4112101.40	0.00102	74.98	74.98	1.2	ANNUAL	ALL	3
745378.55	4112038.90	0.00122	74.98	74.98	1.2	ANNUAL	ALL	3
745381.41	4111976.39	0.00149	74.98	74.98	1.2	ANNUAL	ALL	3
745467.11	4112225.32	0.00062	75.29	75.29	1.2	ANNUAL	ALL	3
745461.11	4112273.21	0.00058	75.59	75.59	1.2	ANNUAL	ALL	3
745436.03	4112325.62	0.00054	75.9	75.9	1.2	ANNUAL	ALL	3
745390.37	4112393.08	0.00052	75.98	75.98	1.2	ANNUAL	ALL	3
745361.28	4112455.52	0.0005	76.2	76.2	1.2	ANNUAL	ALL	3
745339.21	4112504.92	0.00047	76.2	76.2	1.2	ANNUAL	ALL	3
745313.63	4112560.84	0.00045	76.2	76.2	1.2	ANNUAL	ALL	3
745288.05	4112616.76	0.00042	76.23	76.23	1.2	ANNUAL	ALL	3
745205.26	4112695.21	0.00039	76.24	76.24	1.2	ANNUAL	ALL	3
745148.05	4112717.75	0.0004	76.2	76.2	1.2	ANNUAL	ALL	3
745090.83	4112740.29	0.00041	76.2	76.2	1.2	ANNUAL	ALL	3
745033.62	4112762.83	0.00041	76.2	76.2	1.2	ANNUAL	ALL	3
744976.41	4112785.36	0.00041	76.2	76.2	1.2	ANNUAL	ALL	3
744919.20	4112807.90	0.00041	76.2	76.2	1.2	ANNUAL	ALL	3
744861.98	4112830.44	0.00042	76.2	76.2	1.2	ANNUAL	ALL	3
744804.77	4112852.98	0.00042	76.2	76.2	1.2	ANNUAL	ALL	3
745473.92	4112175.38	0.00068	75.29	75.29	1.2	ANNUAL	ALL	3
745510.07	4112092.39	0.00078	75.33	75.33	1.2	ANNUAL	ALL	3
745506.10	4112050.79	0.00087	75.29	75.29	1.2	ANNUAL	ALL	3
745501.28	4111981.88	0.00107	75.29	75.29	1.2	ANNUAL	ALL	3
745322.14	4111759.09	0.00263	74.69	74.69	1.2	ANNUAL	ALL	3
745298.62	4111776.61	0.00279	74.68	74.68	1.2	ANNUAL	ALL	3
745312.71	4111816.98	0.00266	74.96	74.96	1.2	ANNUAL	ALL	3
745326.42	4111866.01	0.00239	74.98	74.98	1.2	ANNUAL	ALL	3
745345.57	4111917.21	0.00199	74.98	74.98	1.2	ANNUAL	ALL	3
744826.28	4111231.40	0.00062	73.76	73.76	1.2	ANNUAL	ALL	3
744879.04	4111254.69	0.00066	73.76	73.76	1.2	ANNUAL	ALL	3
744931.79	4111277.99	0.0007	73.77	73.77	1.2	ANNUAL	ALL	3
744984.55	4111301.28	0.00076	74.07	74.07	1.2	ANNUAL	ALL	3
745037.31	4111324.57	0.00085	74.07	74.07	1.2	ANNUAL	ALL	3
745090.07	4111347.86	0.00095	74.37	74.37	1.2	ANNUAL	ALL	3
745142.83	4111371.16	0.00109	74.37	74.37	1.2	ANNUAL	ALL	3
745195.58	4111394.45	0.00122	74.38	74.38	1.2	ANNUAL	ALL	3
745248.34	4111417.74	0.00134	74.63	74.63	1.2	ANNUAL	ALL	3
745356.35	4111502.86	0.00165	74.68	74.68	1.2	ANNUAL	ALL	3
745337.26	4111562.37	0.00191	74.65	74.65	1.2	ANNUAL	ALL	3
745378.97	4111634.26	0.00209	74.68	74.68	1.2	ANNUAL	ALL	3
745363.36	4111672.09	0.00225	74.68	74.68	1.2	ANNUAL	ALL	3
745407.00	4111704.49	0.00214	74.79	74.79	1.2	ANNUAL	ALL	3
745404.60	4111767.15	0.00215	74.98	74.98	1.2	ANNUAL	ALL	3
745424.18	4111825.79	0.00192	74.98	74.98	1.2	ANNUAL	ALL	3
745443.84	4111875.16	0.00166	74.98	74.98	1.2	ANNUAL	ALL	3
745481.27	4111927.80	0.00131	75.25	75.25	1.2	ANNUAL	ALL	3
744773.52	4111208.11	0.00058	73.46	73.46	1.2	ANNUAL	ALL	3
744711.97	4111207.16	0.00056	73.43	73.43	1.2	ANNUAL	ALL	3
744650.41	4111206.20	0.00054	73.15	73.15	1.2	ANNUAL	ALL	3
744588.86	4111205.25	0.00051	73.15	73.15	1.2	ANNUAL	ALL	3
744142.53	4111787.01	0.00114	73.15	73.15	1.2	ANNUAL	ALL	3
744164.23	4111736.82	0.00097	73.15	73.15	1.2	ANNUAL	ALL	3
744185.92	4111686.62	0.00086	73.15	73.15	1.2	ANNUAL	ALL	3
744207.61	4111636.43	0.00077	72.87	72.87	1.2	ANNUAL	ALL	3
744280.14	4111566.09	0.00075	73.11	73.11	1.2	ANNUAL	ALL	3
744330.97	4111545.95	0.00079	73.15	73.15	1.2	ANNUAL	ALL	3
743981.01	4111881.32	0.00122	73.15	73.15	1.2	ANNUAL	ALL	3
744004.54	4111826.86	0.0011	72.97	72.97	1.2	ANNUAL	ALL	3
744028.08	4111772.40	0.00097	72.85	72.85	1.2	ANNUAL	ALL	3
744051.61	4111717.93	0.00082	72.84	72.84	1.2	ANNUAL	ALL	3
744075.15	4111663.47	0.00071	72.74	72.74	1.2	ANNUAL	ALL	3
744098.69	4111609.01	0.00064	72.56	72.56	1.2	ANNUAL	ALL	3
744122.22	4111554.55	0.00058	72.54	72.54	1.2	ANNUAL	ALL	3
744200.91	4111478.24	0.00056	72.53	72.53	1.2	ANNUAL	ALL	3

744256.07	4111456.38	0.00059	72.85	72.85	1.2	ANNUAL	ALL	3
743957.47	4111935.78	0.00134	73.15	73.15	1.2	ANNUAL	ALL	3
743862.45	4111876.18	0.001	72.85	72.85	1.2	ANNUAL	ALL	3
743887.42	4111818.40	0.0009	72.69	72.69	1.2	ANNUAL	ALL	3
743912.39	4111760.62	0.00082	72.56	72.56	1.2	ANNUAL	ALL	3
743937.36	4111702.85	0.00072	72.54	72.54	1.2	ANNUAL	ALL	3
743962.33	4111645.07	0.00062	72.53	72.53	1.2	ANNUAL	ALL	3
743987.30	4111587.29	0.00055	72.24	72.24	1.2	ANNUAL	ALL	3
744012.27	4111529.51	0.00049	72.24	72.24	1.2	ANNUAL	ALL	3
744037.24	4111471.73	0.00045	71.93	71.93	1.2	ANNUAL	ALL	3
744120.73	4111390.76	0.00043	71.93	71.93	1.2	ANNUAL	ALL	3
744179.25	4111367.57	0.00046	72.24	72.24	1.2	ANNUAL	ALL	3
744237.76	4111344.38	0.00048	72.54	72.54	1.2	ANNUAL	ALL	3
744296.28	4111321.19	0.0005	72.85	72.85	1.2	ANNUAL	ALL	3
744354.79	4111298.01	0.0005	72.85	72.85	1.2	ANNUAL	ALL	3
744413.31	4111274.82	0.0005	72.85	72.85	1.2	ANNUAL	ALL	3
744471.83	4111251.63	0.0005	72.85	72.85	1.2	ANNUAL	ALL	3
744530.34	4111228.44	0.00051	73.13	73.13	1.2	ANNUAL	ALL	3
743837.48	4111933.96	0.00107	72.85	72.85	1.2	ANNUAL	ALL	3
743836.53	4111996.94	0.00115	73.15	73.15	1.2	ANNUAL	ALL	3
743835.58	4112059.93	0.00116	73.15	73.15	1.2	ANNUAL	ALL	3
744155.93	4112330.55	0.0016	73.61	73.61	1.2	ANNUAL	ALL	3
744135.59	4112279.55	0.00172	73.37	73.37	1.2	ANNUAL	ALL	3
744115.26	4112228.55	0.00184	73.15	73.15	1.2	ANNUAL	ALL	3
744094.93	4112177.54	0.00193	73.15	73.15	1.2	ANNUAL	ALL	3
744042.85	4112346.07	0.00121	73.67	73.67	1.2	ANNUAL	ALL	3
744020.79	4112290.74	0.00128	73.16	73.16	1.2	ANNUAL	ALL	3
743998.73	4112235.40	0.00136	73.41	73.41	1.2	ANNUAL	ALL	3
744516.29	4112851.81	0.00047	76.71	76.71	1.2	ANNUAL	ALL	3
744463.95	4112829.53	0.00048	75.91	75.91	1.2	ANNUAL	ALL	3
744411.62	4112807.25	0.0005	74.93	74.93	1.2	ANNUAL	ALL	3
744359.28	4112784.97	0.00052	74.68	74.68	1.2	ANNUAL	ALL	3
744306.95	4112762.68	0.00053	74.68	74.68	1.2	ANNUAL	ALL	3
744254.61	4112740.40	0.00055	74.68	74.68	1.2	ANNUAL	ALL	3
744202.27	4112718.12	0.00058	74.68	74.68	1.2	ANNUAL	ALL	3
744149.94	4112695.84	0.0006	74.68	74.68	1.2	ANNUAL	ALL	3
744097.60	4112673.56	0.00062	74.68	74.68	1.2	ANNUAL	ALL	3
744024.20	4112598.45	0.00069	74.68	74.68	1.2	ANNUAL	ALL	3
744003.14	4112545.61	0.00073	74.68	74.68	1.2	ANNUAL	ALL	3
743982.07	4112492.77	0.00079	74.68	74.68	1.2	ANNUAL	ALL	3
743961.01	4112439.93	0.00087	74.62	74.62	1.2	ANNUAL	ALL	3
743939.95	4112387.10	0.00092	73.33	73.33	1.2	ANNUAL	ALL	3
743918.88	4112334.26	0.00097	73.15	73.15	1.2	ANNUAL	ALL	3
744568.63	4112874.09	0.00045	76.62	76.62	1.2	ANNUAL	ALL	3
744628.27	4112874.56	0.00044	76.38	76.38	1.2	ANNUAL	ALL	3
744687.91	4112875.04	0.00042	76.2	76.2	1.2	ANNUAL	ALL	3
744747.56	4112875.52	0.00041	76.09	76.09	1.2	ANNUAL	ALL	3
745248.53	4112488.04	0.00056	76.2	76.2	1.2	ANNUAL	ALL	3
745256.85	4112466.99	0.00057	76.12	76.12	1.2	ANNUAL	ALL	3
745257.34	4112441.53	0.0006	75.9	75.9	1.2	ANNUAL	ALL	3
745256.36	4112400.41	0.00065	75.9	75.9	1.2	ANNUAL	ALL	3
745253.91	4112355.37	0.00071	75.6	75.6	1.2	ANNUAL	ALL	3
745291.64	4112502.70	0.00051	76.2	76.2	1.2	ANNUAL	ALL	3
745314.73	4112502.70	0.00049	76.2	76.2	1.2	ANNUAL	ALL	3
745360.41	4112498.69	0.00046	76.2	76.2	1.2	ANNUAL	ALL	3
745375.47	4112542.86	0.00042	76.2	76.2	1.2	ANNUAL	ALL	3
745293.15	4112456.02	0.00055	76.06	76.06	1.2	ANNUAL	ALL	3
745320.76	4112458.53	0.00053	76.2	76.2	1.2	ANNUAL	ALL	3
745341.84	4112456.02	0.00051	76.2	76.2	1.2	ANNUAL	ALL	3
745289.30	4112422.06	0.00059	75.91	75.91	1.2	ANNUAL	ALL	3
745316.91	4112424.57	0.00056	76.01	76.01	1.2	ANNUAL	ALL	3
745337.99	4112422.06	0.00054	76.15	76.15	1.2	ANNUAL	ALL	3
745259.57	4112328.70	0.00074	75.59	75.59	1.2	ANNUAL	ALL	3
745256.46	4112307.27	0.00078	75.59	75.59	1.2	ANNUAL	ALL	3
745474.41	4112373.37	0.00047	76.08	76.08	1.2	ANNUAL	ALL	3
745454.23	4112346.42	0.00051	75.9	75.9	1.2	ANNUAL	ALL	3
745384.07	4112374.07	0.00054	75.9	75.9	1.2	ANNUAL	ALL	3
745367.38	4112356.77	0.00057	75.83	75.83	1.2	ANNUAL	ALL	3
745428.24	4112431.29	0.00046	76.2	76.2	1.2	ANNUAL	ALL	3
745410.04	4112410.48	0.00049	76.16	76.16	1.2	ANNUAL	ALL	3
745381.66	4112505.09	0.00044	76.2	76.2	1.2	ANNUAL	ALL	3
745381.49	4112454.59	0.00048	76.2	76.2	1.2	ANNUAL	ALL	3
745365.43	4112419.45	0.00052	76.2	76.2	1.2	ANNUAL	ALL	3
745297.16	4112374.27	0.00063	75.79	75.79	1.2	ANNUAL	ALL	3
745324.77	4112374.27	0.0006	75.79	75.79	1.2	ANNUAL	ALL	3
745353.38	4112334.11	0.00061	75.62	75.62	1.2	ANNUAL	ALL	3
745349.87	4112314.53	0.00064	75.59	75.59	1.2	ANNUAL	ALL	3
745339.83	4112296.46	0.00068	75.29	75.29	1.2	ANNUAL	ALL	3
745275.15	4112015.28	0.0018	74.98	74.98	1.2	ANNUAL	ALL	3
745275.15	4112064.78	0.00149	74.98	74.98	1.2	ANNUAL	ALL	3
745271.87	4112139.99	0.00116	74.98	74.98	1.2	ANNUAL	ALL	3
745269.90	4112111.61	0.00128	74.98	74.98	1.2	ANNUAL	ALL	3
745322.64	4112015.82	0.00155	74.98	74.98	1.2	ANNUAL	ALL	3
745320.68	4111987.43	0.00172	74.98	74.98	1.2	ANNUAL	ALL	3
745319.23	4112065.32	0.00131	74.98	74.98	1.2	ANNUAL	ALL	3
745319.82	4112039.07	0.00144	74.98	74.98	1.2	ANNUAL	ALL	3
745317.95	4112107.99	0.00115	74.98	74.98	1.2	ANNUAL	ALL	3
745317.26	4112089.42	0.00122	74.98	74.98	1.2	ANNUAL	ALL	3
745317.52	4112206.56	0.00087	75	75	1.2	ANNUAL	ALL	3
745316.41	4112182.02	0.00092	74.98	74.98	1.2	ANNUAL	ALL	3
745320.94	4112158.56	0.00097	74.98	74.98	1.2	ANNUAL	ALL	3
745319.82	4112134.01	0.00105	74.98	74.98	1.2	ANNUAL	ALL	3
745467.73	4112151.30	0.00073	75.29	75.29	1.2	ANNUAL	ALL	3
745466.61	4112126.76	0.00078	75.29	75.29	1.2	ANNUAL	ALL	3
745510.82	4112144.05	0.00068	75.45	75.45	1.2	ANNUAL	ALL	3
745509.71	4112119.50	0.00073	75.44	75.44	1.2	ANNUAL	ALL	3

745462.61	4112100.95	0.00084	75.27	75.27	1.2	ANNUAL	ALL	3
745461.49	4112076.40	0.0009	75.25	75.25	1.2	ANNUAL	ALL	3
745474.42	4112051.55	0.00093	75.29	75.29	1.2	ANNUAL	ALL	3
745278.38	4112259.94	0.00084	75.29	75.29	1.2	ANNUAL	ALL	3
745275.26	4112238.52	0.00089	75.29	75.29	1.2	ANNUAL	ALL	3
745271.98	4112208.73	0.00096	75.02	75.02	1.2	ANNUAL	ALL	3
745268.86	4112187.31	0.00102	74.98	74.98	1.2	ANNUAL	ALL	3
745319.49	4112230.45	0.00082	75.24	75.24	1.2	ANNUAL	ALL	3
745261.03	4112281.24	0.00082	75.29	75.29	1.2	ANNUAL	ALL	3
745440.69	4112250.51	0.00063	75.45	75.45	1.2	ANNUAL	ALL	3
745405.69	4112277.39	0.00063	75.42	75.42	1.2	ANNUAL	ALL	3
745418.92	4112293.18	0.0006	75.58	75.58	1.2	ANNUAL	ALL	3
745405.27	4112214.24	0.00072	75.08	75.08	1.2	ANNUAL	ALL	3
745430.02	4112203.14	0.0007	74.98	74.98	1.2	ANNUAL	ALL	3
745303.73	4111937.03	0.00216	74.98	74.98	1.2	ANNUAL	ALL	3
745291.76	4111922.16	0.00234	74.98	74.98	1.2	ANNUAL	ALL	3
745276.16	4111911.64	0.00255	74.91	74.91	1.2	ANNUAL	ALL	3
745373.37	4111909.10	0.00187	74.98	74.98	1.2	ANNUAL	ALL	3
745404.21	4111900.03	0.00174	74.98	74.98	1.2	ANNUAL	ALL	3
745358.86	4111860.49	0.00218	74.98	74.98	1.2	ANNUAL	ALL	3
745382.08	4111851.06	0.00207	74.98	74.98	1.2	ANNUAL	ALL	3
745457.53	4111901.12	0.0015	74.98	74.98	1.2	ANNUAL	ALL	3
745362.13	4111802.45	0.00234	74.98	74.98	1.2	ANNUAL	ALL	3
745341.81	4111813.70	0.00245	74.98	74.98	1.2	ANNUAL	ALL	3
745429.96	4111853.24	0.0018	74.98	74.98	1.2	ANNUAL	ALL	3
743880.64	4111859.77	0.00099	72.85	72.85	1.2	ANNUAL	ALL	3
743834.97	4111896.04	0.001	72.82	72.82	1.2	ANNUAL	ALL	3
743858.78	4111715.17	0.0007	72.45	72.45	1.2	ANNUAL	ALL	3
743873.49	4111700.08	0.00068	72.29	72.29	1.2	ANNUAL	ALL	3
743912.57	4111668.73	0.00064	72.35	72.35	1.2	ANNUAL	ALL	3
743937.34	4111645.13	0.00061	72.36	72.36	1.2	ANNUAL	ALL	3
743952.82	4111631.97	0.00059	72.41	72.41	1.2	ANNUAL	ALL	3
743834.02	4111731.03	0.0007	72.46	72.46	1.2	ANNUAL	ALL	3
743817.76	4111746.51	0.00071	72.47	72.47	1.2	ANNUAL	ALL	3
743776.23	4111852.09	0.00084	72.54	72.54	1.2	ANNUAL	ALL	3
743794.40	4111875.02	0.0009	72.54	72.54	1.2	ANNUAL	ALL	3
743805.59	4111886.76	0.00094	72.63	72.63	1.2	ANNUAL	ALL	3
743824.04	4111899.62	0.00099	72.81	72.81	1.2	ANNUAL	ALL	3
744140.05	4111952.04	0.00208	73.15	73.15	1.2	ANNUAL	ALL	3
744131.50	4111942.17	0.00197	73.15	73.15	1.2	ANNUAL	ALL	3
744047.61	4111960.92	0.00172	73.15	73.15	1.2	ANNUAL	ALL	3
744024.91	4111970.46	0.00166	73.15	73.15	1.2	ANNUAL	ALL	3
744042.01	4111987.57	0.00179	73.15	73.15	1.2	ANNUAL	ALL	3
744010.76	4112034.61	0.00175	73.15	73.15	1.2	ANNUAL	ALL	3
743965.69	4112041.52	0.00157	73.15	73.15	1.2	ANNUAL	ALL	3
743977.29	4112014.98	0.00159	73.15	73.15	1.2	ANNUAL	ALL	3
743842.02	4112145.60	0.00109	73.15	73.15	1.2	ANNUAL	ALL	3
743829.16	4112164.34	0.00104	73.15	73.15	1.2	ANNUAL	ALL	3
743859.92	4112160.57	0.00112	73.15	73.15	1.2	ANNUAL	ALL	3
743847.06	4112179.30	0.00106	73.15	73.15	1.2	ANNUAL	ALL	3
743882.57	4112183.78	0.00114	73.15	73.15	1.2	ANNUAL	ALL	3
743869.71	4112202.52	0.00108	73.15	73.15	1.2	ANNUAL	ALL	3
743901.03	4112200.28	0.00116	73.15	73.15	1.2	ANNUAL	ALL	3
743888.17	4112219.02	0.0011	73.15	73.15	1.2	ANNUAL	ALL	3
743929.84	4112230.48	0.00118	73.15	73.15	1.2	ANNUAL	ALL	3
743916.97	4112249.22	0.00111	73.15	73.15	1.2	ANNUAL	ALL	3
743915.58	4112214.82	0.00117	73.15	73.15	1.2	ANNUAL	ALL	3
743902.71	4112233.56	0.00111	73.15	73.15	1.2	ANNUAL	ALL	3
743908.58	4112139.59	0.00127	73.15	73.15	1.2	ANNUAL	ALL	3
743895.72	4112158.33	0.00121	73.15	73.15	1.2	ANNUAL	ALL	3
743922.29	4112153.57	0.00129	73.15	73.15	1.2	ANNUAL	ALL	3
743909.42	4112172.31	0.00122	73.15	73.15	1.2	ANNUAL	ALL	3
743935.57	4112173.15	0.00129	73.15	73.15	1.2	ANNUAL	ALL	3
743922.71	4112191.89	0.00123	73.15	73.15	1.2	ANNUAL	ALL	3
743949.27	4112187.13	0.00131	73.15	73.15	1.2	ANNUAL	ALL	3
743936.41	4112205.87	0.00124	73.15	73.15	1.2	ANNUAL	ALL	3
743960.88	4112199.72	0.00132	73.15	73.15	1.2	ANNUAL	ALL	3
743948.02	4112218.46	0.00125	73.21	73.21	1.2	ANNUAL	ALL	3
744314.29	4112403.08	0.00177	74.68	74.68	1.2	ANNUAL	ALL	3
744927.37	4112023.03	0.00958	74.68	74.68	1.2	ANNUAL	ALL	3
744886.26	4112033.38	0.01253	74.68	74.68	1.2	ANNUAL	ALL	3
744863.32	4112053.80	0.01337	74.68	74.68	1.2	ANNUAL	ALL	3
744840.95	4112066.10	0.01501	74.68	74.68	1.2	ANNUAL	ALL	3
744839.55	4112096.31	0.01107	74.68	74.68	1.2	ANNUAL	ALL	3
744867.80	4112111.13	0.00743	74.68	74.68	1.2	ANNUAL	ALL	3
744887.10	4112101.35	0.00704	74.68	74.68	1.2	ANNUAL	ALL	3
744887.73	4112135.02	0.00526	74.84	74.84	1.2	ANNUAL	ALL	3
744884.11	4112197.54	0.00361	74.98	74.98	1.2	ANNUAL	ALL	3
744880.82	4112221.56	0.00324	75.06	75.06	1.2	ANNUAL	ALL	3
744899.25	4112238.68	0.00274	75.02	75.02	1.2	ANNUAL	ALL	3
744918.00	4112238.02	0.00254	75.02	75.02	1.2	ANNUAL	ALL	3
744941.04	4112237.03	0.00233	74.99	74.99	1.2	ANNUAL	ALL	3
744960.45	4112240.32	0.00213	74.98	74.98	1.2	ANNUAL	ALL	3
744988.42	4112236.37	0.00195	74.98	74.98	1.2	ANNUAL	ALL	3
745008.82	4112236.37	0.00182	74.98	74.98	1.2	ANNUAL	ALL	3
745033.50	4112238.02	0.00166	75	75	1.2	ANNUAL	ALL	3
745051.27	4112239.00	0.00157	75.03	75.03	1.2	ANNUAL	ALL	3
744928.20	4112193.92	0.00298	74.98	74.98	1.2	ANNUAL	ALL	3
744948.61	4112193.92	0.00272	74.98	74.98	1.2	ANNUAL	ALL	3
744930.51	4112150.16	0.00373	74.98	74.98	1.2	ANNUAL	ALL	3
744950.91	4112150.16	0.00337	74.98	74.98	1.2	ANNUAL	ALL	3
744932.15	4112107.71	0.00494	74.91	74.91	1.2	ANNUAL	ALL	3
744952.55	4112107.71	0.00439	74.91	74.91	1.2	ANNUAL	ALL	3
744974.60	4112111.00	0.00381	74.97	74.97	1.2	ANNUAL	ALL	3
744995.00	4112111.00	0.00344	74.98	74.98	1.2	ANNUAL	ALL	3
745018.69	4112110.67	0.00308	74.98	74.98	1.2	ANNUAL	ALL	3

745039.10	4112110.67	0.00281	74.98	74.98	1.2	ANNUAL	ALL	3
745063.12	4112111.33	0.00254	74.98	74.98	1.2	ANNUAL	ALL	3
745083.52	4112111.33	0.00234	74.98	74.98	1.2	ANNUAL	ALL	3
745108.53	4112111.66	0.00213	74.98	74.98	1.2	ANNUAL	ALL	3
745128.93	4112111.66	0.00198	74.98	74.98	1.2	ANNUAL	ALL	3
744973.61	4112195.57	0.00244	74.98	74.98	1.2	ANNUAL	ALL	3
744994.02	4112195.57	0.00225	74.98	74.98	1.2	ANNUAL	ALL	3
744973.94	4112151.48	0.00301	74.98	74.98	1.2	ANNUAL	ALL	3
744994.34	4112151.48	0.00275	74.98	74.98	1.2	ANNUAL	ALL	3
745019.35	4112152.79	0.00246	74.98	74.98	1.2	ANNUAL	ALL	3
745039.75	4112152.79	0.00227	74.98	74.98	1.2	ANNUAL	ALL	3
745019.35	4112194.25	0.00206	74.98	74.98	1.2	ANNUAL	ALL	3
745039.75	4112194.25	0.00192	74.98	74.98	1.2	ANNUAL	ALL	3
745064.10	4112196.56	0.00176	74.98	74.98	1.2	ANNUAL	ALL	3
745084.51	4112196.56	0.00164	74.98	74.98	1.2	ANNUAL	ALL	3
745064.76	4112155.10	0.00205	74.98	74.98	1.2	ANNUAL	ALL	3
745085.16	4112155.10	0.00191	74.98	74.98	1.2	ANNUAL	ALL	3
745107.87	4112154.44	0.00177	74.98	74.98	1.2	ANNUAL	ALL	3
745128.27	4112154.44	0.00166	74.98	74.98	1.2	ANNUAL	ALL	3
745109.18	4112197.54	0.00152	74.98	74.98	1.2	ANNUAL	ALL	3
745129.59	4112197.54	0.00143	74.98	74.98	1.2	ANNUAL	ALL	3
745102.27	4112239.33	0.00135	75.03	75.03	1.2	ANNUAL	ALL	3
745122.68	4112239.33	0.00128	75.03	75.03	1.2	ANNUAL	ALL	3
745139.49	4112241.44	0.00121	75.05	75.05	1.2	ANNUAL	ALL	3
745166.98	4112244.15	0.00112	75.08	75.08	1.2	ANNUAL	ALL	3
745190.60	4112238.73	0.00108	75.02	75.02	1.2	ANNUAL	ALL	3
745197.18	4112218.98	0.00112	74.99	74.99	1.2	ANNUAL	ALL	3
745193.31	4112195.75	0.0012	74.98	74.98	1.2	ANNUAL	ALL	3
745194.47	4112177.55	0.00126	74.98	74.98	1.2	ANNUAL	ALL	3
745196.02	4112152.39	0.00136	74.98	74.98	1.2	ANNUAL	ALL	3
745196.02	4112134.19	0.00146	74.98	74.98	1.2	ANNUAL	ALL	3
745151.11	4112158.20	0.00152	74.98	74.98	1.2	ANNUAL	ALL	3
745150.72	4112116.38	0.0018	74.98	74.98	1.2	ANNUAL	ALL	3
745195.24	4112089.28	0.00174	74.98	74.98	1.2	ANNUAL	ALL	3
745197.18	4112071.47	0.00186	74.98	74.98	1.2	ANNUAL	ALL	3
745202.21	4112051.34	0.00199	74.98	74.98	1.2	ANNUAL	ALL	3
745192.92	4112034.30	0.00222	74.98	74.98	1.2	ANNUAL	ALL	3
745166.59	4112025.39	0.00255	74.98	74.98	1.2	ANNUAL	ALL	3
744946.39	4112019.92	0.00849	74.68	74.68	1.2	ANNUAL	ALL	3
744966.79	4112019.92	0.00738	74.68	74.68	1.2	ANNUAL	ALL	3
744988.84	4112023.21	0.00629	74.68	74.68	1.2	ANNUAL	ALL	3
745009.24	4112023.21	0.00555	74.68	74.68	1.2	ANNUAL	ALL	3
745032.93	4112022.88	0.00486	74.68	74.68	1.2	ANNUAL	ALL	3
745053.34	4112022.88	0.00435	74.68	74.68	1.2	ANNUAL	ALL	3
745077.36	4112023.54	0.00383	74.7	74.7	1.2	ANNUAL	ALL	3
745097.76	4112023.54	0.00347	74.9	74.9	1.2	ANNUAL	ALL	3
745122.77	4112023.87	0.00309	74.97	74.97	1.2	ANNUAL	ALL	3
745143.17	4112023.87	0.00283	74.97	74.97	1.2	ANNUAL	ALL	3
744930.35	4112070.88	0.0067	74.68	74.68	1.2	ANNUAL	ALL	3
744950.75	4112070.88	0.00584	74.68	74.68	1.2	ANNUAL	ALL	3
744972.80	4112074.17	0.00497	74.8	74.8	1.2	ANNUAL	ALL	3
744993.20	4112074.17	0.00441	74.91	74.91	1.2	ANNUAL	ALL	3
745016.89	4112073.84	0.00389	74.98	74.98	1.2	ANNUAL	ALL	3
745037.29	4112073.84	0.00351	74.98	74.98	1.2	ANNUAL	ALL	3
745061.31	4112074.50	0.00312	74.98	74.98	1.2	ANNUAL	ALL	3
745081.72	4112074.50	0.00285	74.98	74.98	1.2	ANNUAL	ALL	3
745106.72	4112074.83	0.00256	74.98	74.98	1.2	ANNUAL	ALL	3
745127.13	4112074.83	0.00236	74.98	74.98	1.2	ANNUAL	ALL	3
745148.92	4112079.55	0.00213	74.98	74.98	1.2	ANNUAL	ALL	3
745415.63	4111798.24	0.00204	74.98	74.98	1.2	ANNUAL	ALL	3
745354.45	4111758.74	0.00243	74.8	74.8	1.2	ANNUAL	ALL	3
745331.61	4111720.02	0.00251	74.68	74.68	1.2	ANNUAL	ALL	3
745356.39	4111721.57	0.00239	74.68	74.68	1.2	ANNUAL	ALL	3
745299.08	4111706.86	0.00263	74.68	74.68	1.2	ANNUAL	ALL	3
745310.31	4111671.62	0.00245	74.68	74.68	1.2	ANNUAL	ALL	3
745338.58	4111661.94	0.00231	74.68	74.68	1.2	ANNUAL	ALL	3
745402.47	4111737.45	0.00218	74.97	74.97	1.2	ANNUAL	ALL	3
745417.95	4111676.66	0.00206	74.81	74.81	1.2	ANNUAL	ALL	3
745422.21	4111652.65	0.00201	74.78	74.78	1.2	ANNUAL	ALL	3
745432.67	4111623.22	0.00191	74.68	74.68	1.2	ANNUAL	ALL	3
745443.90	4111597.67	0.00182	74.68	74.68	1.2	ANNUAL	ALL	3
745449.32	4111570.95	0.00174	74.68	74.68	1.2	ANNUAL	ALL	3
745461.32	4111539.98	0.00164	74.68	74.68	1.2	ANNUAL	ALL	3
745447.38	4111508.23	0.00157	74.68	74.68	1.2	ANNUAL	ALL	3
745356.39	4111620.51	0.00211	74.68	74.68	1.2	ANNUAL	ALL	3
745318.44	4111619.35	0.0022	74.68	74.68	1.2	ANNUAL	ALL	3
745316.89	4111589.54	0.00206	74.68	74.68	1.2	ANNUAL	ALL	3
745370.71	4111570.18	0.00189	74.68	74.68	1.2	ANNUAL	ALL	3
745390.46	4111584.89	0.0019	74.68	74.68	1.2	ANNUAL	ALL	3
745407.11	4111546.17	0.00174	74.68	74.68	1.2	ANNUAL	ALL	3
745374.59	4111526.42	0.00172	74.68	74.68	1.2	ANNUAL	ALL	3
745371.10	4111462.92	0.00149	74.68	74.68	1.2	ANNUAL	ALL	3
745395.50	4111477.25	0.00152	74.68	74.68	1.2	ANNUAL	ALL	3
744105.32	4111919.34	0.00173	73.15	73.15	1.2	ANNUAL	ALL	3

** CONCUNIT ug/m^3
** DEPUNIT g/m^2

ATTACHMENT C
Energy Consumption Calculations

Chowchilla A-Z Truck Center Project—Energy Consumption Summary

Date of Last Revision: 2/2/24

Summary of Energy Use During Construction		(Annually)
Construction vehicle fuel	31,269	gallons (gasoline, diesel)
Construction equipment fuel	22,879	gallons (diesel)
Construction office trailer electricity	33,670	kilowatt hours

Summary of Energy Use During Proposed Operations		(Annually)
Operational vehicle fuel consumption	2,115,361	gallons (gasoline, diesel)
Operational natural gas consumption	6,901,686	kilo-British Thermal Units
Operational electricity consumption	2,580,433	kilowatt hours

Construction Vehicle Fuel Calculations (Page 1 of 2)

California Air Resource Board (CARB). EMFAC2021 Web Database. Website: https://arb.ca.gov/emfac/emissions-inventory. Accessed January 2024.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Madera (SJV)
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 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

VMT = Vehicle Miles Traveled
FE = Fuel Economy

						Given			*Calculations*	
Region	Calendar Year	Vehicle Class	Model Year	Speed		Population	VMT (mi/day)	Fuel Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
Madera (SJV)	2024	HHDT	Aggregate	Aggregate	Gasoline	0.931004563	40.32903	0.01265343	3.18720164	128.536755
Madera (SJV)	2024	HHDT	Aggregate	Aggregate	Diesel	3360.676069	499891.4	82.28195493	6.07534659	3037013.48
Madera (SJV)	2024	LDA	Aggregate	Aggregate	Gasoline	58047.47177	2414540	82.78715401	29.165636	70421594.6
Madera (SJV)	2024	LDA	Aggregate	Aggregate	Diesel	171.4787883	5618.357	0.130073257	43.1937929	242678.162
Madera (SJV)	2024	LDT1	Aggregate	Aggregate	Gasoline	6498.184812	205207.4	8.568452642	23.94918	4914549.32
Madera (SJV)	2024	LDT1	Aggregate	Aggregate	Diesel	3.132772476	30.02724	0.001227578	24.4605555	734.483087
Madera (SJV)	2024	LDT2	Aggregate	Aggregate	Gasoline	27772.06475	1097803	46.84694712	23.4338245	25725726.1
Madera (SJV)	2024	LDT2	Aggregate	Aggregate	Diesel	73.7272881	3222.345	0.097115013	33.1807095	106919.694
Madera (SJV)	2024	LHDT1	Aggregate	Aggregate	Gasoline	2871.652957	102257.9	10.98456488	9.30923722	951943.236
Madera (SJV)	2024	LHDT1	Aggregate	Aggregate	Diesel	3231.248905	113754.6	7.176223752	15.8515948	1803191.69
Madera (SJV)	2024	LHDT2	Aggregate	Aggregate	Gasoline	370.2745171	13233.32	1.585980224	8.34393718	110417.985
Madera (SJV)	2024	LHDT2	Aggregate	Aggregate	Diesel	1160.992157	42888.44	3.303184289	12.9839673	556862.057
Madera (SJV)	2024	MDV	Aggregate	Aggregate	Gasoline	26136.00598	936274.2	49.75640769	18.8171585	17618020.2
Madera (SJV)	2024	MDV	Aggregate	Aggregate	Diesel	481.4826968	18774.6	0.782293082	23.9994393	450579.762
Madera (SJV)	2024	MHDT	Aggregate	Aggregate	Gasoline	167.188017	12014.83	2.551108027	4.70965336	56585.7057
Madera (SJV)	2024	MHDT	Aggregate	Aggregate	Diesel	1274.14859	61577.45	7.086640144	8.68922994	535060.585

Worker
Weighted Average Fuel Economy 25.522069

Vendor
Weighted Average Fuel Economy 8.3381237

Haul
Weighted Average Fuel Economy 6.07511361

Construction Vehicle Fuel Calculations (Page 2 of 2)

Construction Schedule

Source: CalEEMod Output

A-Z Truck Center Project

CalEEMod Run	Phase Name	Start Date	End Date	Num Days Week	Num Days
Project Construction	Site Preparation	6/3/2024	6/20/2024	5	14
Project Construction	Grading	6/21/2024	8/16/2024	5	41
Project Construction	Paving	8/17/2024	9/25/2024	5	28
Project Construction	Building Construction	9/26/2024	4/22/2026	5	410
Project Construction	Architectural Coating	4/23/2026	6/1/2026	5	28

Construction Trips and VMT

	Trips per Day			Construction Trip Length in Miles				Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Site Preparation	17.50	8.00	0.00	7.10	12.80	20	14	245	112	0	1,740	1,434	0	68.16	171.93	0.00
Grading	20.00	8.00	3.05	7.10	12.80	20	41	820	328	125	5,822	4,198	2,500	228.12	503.52	411.51
Paving	15.00	8.00	0.00	7.10	12.80	20	28	420	224	0	2,982	2,867	0	116.84	343.87	0.00
Building Construction	78.23	31.83	0.00	7.10	12.80	20	410	32,075	13,052	0	227,730	167,063	0	8,922.87	20,036.04	0.00
Architectural Coating	15.65	8.00	0.00	7.10	12.80	20	28	438	224	0	3,110	2,867	0	121.87	343.87	0.00

Total Project Construction VMT (miles)

422,314

Total Project Fuel Consumption (gallons)

31,269

Construction Equipment Fuel Calculation (Page 1 of 2)

Source: CalEEMod Output
A-Z Truck Center Project

Construction Schedule

Construction Area	Phase Type	Start Date	End Date	Days /Week	Num Days
Project Construction	Site Preparation	6/3/2024	6/20/2024	5	14
Project Construction	Grading	6/21/2024	8/16/2024	5	41
Project Construction	Paving	8/17/2024	9/25/2024	5	28
Project Construction	Building Construction	9/26/2024	4/22/2026	5	410
Project Construction	Architectural Coating	4/23/2026	6/1/2026	5	28

Construction Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Fuel (gallons/HP-hour)	Diesel Fuel Usage
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	14	49,324.80	0.02051	1,011.81
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37	14	13,923.84	0.01903	264.92
Grading	Graders	2	8	36	0.38	41	8,974.08	0.02121	190.38
Grading	Excavators	1	8	148	0.41	41	19,903.04	0.01976	393.23
Grading	Tractors/Loaders/Backhoes	1	8	367	0.40	41	48,150.40	0.01903	916.14
Grading	Rubber Tired Dozers	2	8	423	0.48	41	133,194.24	0.02051	2,732.25
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37	41	20,388.48	0.01903	387.92
Paving	Pavers	2	8	81	0.42	28	15,240.96	0.02153	328.10
Paving	Paving Equipment	2	8	89	0.36	28	14,353.92	0.01833	263.14
Paving	Rollers	2	8	36	0.38	28	6,128.64	0.01940	118.92
Building Construction	Cranes	1	7	367	0.29	410	305,454.10	0.01488	4,546.64
Building Construction	Forklifts	3	8	82	0.20	410	161,376.00	0.02080	3,357.38
Building Construction	Generator Sets	1	8	14	0.74	410	33,980.80	0.04236	1,439.35
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37	410	267,598.80	0.01903	5,091.49
Building Construction	Welders	1	8	46	0.45	410	67,896.00	0.02585	1,754.83
Architectural Coating	Air Compressors	1	6	37	0.48	28	2,983.68	0.02755	82.21

Total Construction Equipment Fuel Consumption (gallons) **22,878.73**

Notes:
Equipment assumptions are provided in the CalEEMod output files.
Source of usage estimates: California Air Resource Board (CARB). 2022. OFFROAD2017 (v1.0.1) Emissions Inventory
Website: https://www.arb.ca.gov/orion/. Accessed December 2023.

Construction Equipment Fuel Calculation (Page 2 of 2)

OFFROAD2017 (v1.0.1) Emissions Inventory
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Vehicle Class	Model Year	HP_Bin	Fuel	Fuel (gallons/year)	Horsepower Hours (HP-hours/year)	Fuel (gallons/HP-hour)
Construction and Mining - Cranes	Aggregated	300	Diesel	52657.02	3537623.55	0.014884857
Construction and Mining - Excavators	Aggregated	175	Diesel	156561.57	7924249.90	0.019757273
Construction and Mining - Graders	Aggregated	175	Diesel	95622.49	4507357.53	0.021214755
Construction and Mining - Misc - Cement And Mortar Mixers	Aggregated	25	Diesel	518.30	16275.35	0.031845705
Construction and Mining - Misc - Concrete/Industrial Saws	Aggregated	50	Diesel	266.45	6383.85	0.041738136
Construction and Mining - Pavers	Aggregated	175	Diesel	20697.10	961439.23	0.021527205
Construction and Mining - Paving Equipment	Aggregated	175	Diesel	8797.73	479896.07	0.018332574
Construction and Mining - Rollers	Aggregated	100	Diesel	49945.72	2573962.80	0.019404212
Construction and Mining - Rough Terrain Forklifts	Aggregated	100	Diesel	128035.04	6154134.12	0.020804721
Construction and Mining - Rubber Tired Dozers	Aggregated	300	Diesel	6934.53	338050.60	0.020513278
Construction and Mining - Scrapers	Aggregated	300	Diesel	57538.00	2311993.76	0.024886746
Construction and Mining - Tractors/Loaders/Backhoes	Aggregated	300	Diesel	84418.90	4436891.50	0.019026586
Light Commercial - Misc - Air Compressors	Aggregated	50	Diesel	8584.80	311560.35	0.027554212
Light Commercial - Misc - Generator Sets	Aggregated	50	Diesel	23662.95	558647.10	0.042357599
Light Commercial - Misc - Welders	Aggregated	50	Diesel	39441.90	1526043.10	0.025845862

Construction Office Electricity Calculation

Energy Appendix: CalEEMod Typical Construction Trailer
Typical Construction Trailer - Madera County, Annual

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)
General Office Building	16,881	204	0.0330	0.0040	28,756

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual	16,881	kWh/yr
Total Over Construction	**33,670**	**kWh**

Total Construction Schedule

Start	6/3/2024
End	6/1/2026
Total Calendar Days	728
Years	1.99

A-Z Truck Center Project Operational Fuel Calculation—Project-generated Operational Trips

California Air Resource Board (CARB). EMFAC2021. Website: https://arb.ca.gov/emfac/emissions-inventory/. Accessed January 2024.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Madera (SJV)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 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

VMT = Vehicle Miles Traveled
FE = Fuel Economy

				Given					*Calculations*	
Region	Calendar Year	Vehicle Class	Model Year	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
Madera (SJV)	2026	LDA	Aggregate	Aggregate	Gasoline	58310.9981	2439205.062	80.20595137	30.41177145	74180546.86
Madera (SJV)	2026	LDA	Aggregate	Aggregate	Diesel	147.4307232	4768.781054	0.108040599	44.13878743	210488.2132
									Total VMT	**2443973.843**
									Weighted Average Fuel Economy	**30.43855616**
Madera (SJV)	2026	LDT1	Aggregate	Aggregate	Gasoline	6010.627583	192296.1277	7.736370439	24.85611686	4779735.023
Madera (SJV)	2026	LDT1	Aggregate	Aggregate	Diesel	2.500130373	21.74799554	0.000885898	24.54910147	533.8937492
Madera (SJV)	2026	LDT2	Aggregate	Aggregate	Gasoline	28448.32158	1132471.448	45.95057943	24.64542258	27910237.4
Madera (SJV)	2026	LDT2	Aggregate	Aggregate	Diesel	81.77962244	3566.633301	0.103018742	34.62120822	123481.1542
Madera (SJV)	2026	MDV	Aggregate	Aggregate	Gasoline	24952.03434	892553.9749	45.51472816	19.61022313	17503182.6
Madera (SJV)	2026	MDV	Aggregate	Aggregate	Diesel	466.8483481	17356.08431	0.709774162	24.45296722	424407.7607
									Total VMT	**2238266.016**
									Weighted Average Fuel Economy	**22.67003898**
Madera (SJV)	2026	LHDT1	Aggregate	Aggregate	Gasoline	2681.58676	96838.03048	10.07420195	9.6124766	930853.302
Madera (SJV)	2026	LHDT1	Aggregate	Aggregate	Diesel	2988.660097	103186.8467	6.534309252	15.79154624	1629479.862
Madera (SJV)	2026	LHDT2	Aggregate	Aggregate	Gasoline	347.8141382	12397.66857	1.449408656	8.553604617	106044.7552
Madera (SJV)	2026	LHDT2	Aggregate	Aggregate	Diesel	1109.144882	39982.34915	3.072765053	13.01184713	520244.2152
Madera (SJV)	2026	MHDT	Aggregate	Aggregate	Gasoline	156.0040458	11590.02498	2.401587564	4.82598476	55933.28394
Madera (SJV)	2026	MHDT	Aggregate	Aggregate	Diesel	1322.080274	62217.72598	7.078290052	8.789937333	546889.9124
									Total VMT	**326212.6459**
									Weighted Average Fuel Economy	**11.61648813**
Madera (SJV)	2026	HHDT	Aggregate	Aggregate	Gasoline	0.157207135	22.07010646	0.005378643	4.103284879	90.55993414
Madera (SJV)	2026	HHDT	Aggregate	Aggregate	Diesel	3503.88227	502478.8229	80.23305404	6.262740824	3146894.637
									Total VMT	**502500.893**
									Weighted Average Fuel Economy	**6.262645979**
Madera (SJV)	2026	MH	Aggregate	Aggregate	Gasoline	464.3702398	4051.096494	0.918096714	4.412494272	17875.44007
Madera (SJV)	2026	MH	Aggregate	Aggregate	Diesel	232.4982344	1949.140546	0.207195006	9.407275718	18336.10253
Madera (SJV)	2026	OBUS	Aggregate	Aggregate	Gasoline	59.12618004	3301.724259	0.689125492	4.791179979	15819.15516
Madera (SJV)	2026	OBUS	Aggregate	Aggregate	Diesel	29.30612613	2863.979945	0.474428141	6.036699132	17288.98525
Madera (SJV)	2026	SBUS	Aggregate	Aggregate	Gasoline	86.72367602	7973.155709	0.800499217	9.960229246	79414.45868
Madera (SJV)	2026	SBUS	Aggregate	Aggregate	Diesel	177.629487	4043.638379	0.484131398	8.35235723	33773.91225
Madera (SJV)	2026	UBUS	Aggregate	Aggregate	Gasoline	14.87447657	1471.9483	0.312990802	4.702848421	6922.349739
Madera (SJV)	2026	UBUS	Aggregate	Aggregate	Diesel	3.384792923	198.3196644	0.014719108	13.47362009	2672.083814
									Total VMT	**25853.0033**
									Weighted Average Fuel Economy	**7.430567555**
Madera (SJV)	2026	MCY	Aggregate	Aggregate	Gasoline	3526.719698	18881.98272	0.465783885	40.53807641	765439.2583
									Total VMT	**18881.98272**
									Weighted Average Fuel Economy	**40.53807641**

Operational Fuel Calculation—Project-generated Operational Trips

Total Operational VMT

A-Z Truck Center Project

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Hotel	606	606	606	221,190	5,074	5,074	5,074	1,852,021
Fast Food Restaurant w/o Drive Thru	3,927	3,927	3,927	1,433,355	12,132	32,881	32,881	6,592,070
Convenience Market (24 hour)	9,681	9,681	9,681	3,533,565	29,909	81,059	81,059	16,251,040
Automobile Care Center	2,704	2,704	2,704	986,960	8,354	22,641	22,641	4,539,078
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Annual VMT (miles)
Total VMT for Project Land Uses	**29,234,209**

By Vehicle Type (Average Fleet Mix for the 2026 Operational Year for the Project)

Fleet Mixes

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	51.06585463	4.850074476	23.31390931	20.77016159	0	0	0	0	0	0	0	0	0
Fast Food Restaurant w/o Drive Thru	51.06585463	4.850074476	23.31390931	20.77016159	0	0	0	0	0	0	0	0	0
Convenience Market (24 hour)	2.537739649	44.9572295	4.269896448	20.52504122	4	1	2	18	0	1	0	0	0
Automobile Care Center	0	0	0	0	13.14079793	3.376202561	3.482999504	80	0	0	0	0	0

	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Weighted Project Fleet	16.16071247	26.39223805	9.107653159	17.40900206	4.281500506	1.100025512	1.927334992	22.5860724	0.273976598	0.594030522	0.035440344	0.119527008	0.012486373

	Fraction of 1	Percent of Vehicle Trips	Annual VMT	Daily VMT	Average Fuel Economy (miles/gallon)	Total Daily Fuel Consumption (gallons)	Total Annual Fuel Consumption (gallons)
Passenger Cars (LDA)	0.1616	16.16	4,724,456	12,944	30.44	425.2	155,213
Light Trucks and Medium Vehicles (LDT1, LDT2, and MDV)	0.5291	52.91	15,467,497	42,377	22.67	1869.3	682,288
LHDT1, LHDT2, and MHDT	0.0731	7.31	2,136,688	5,854	11.62	503.9	183,936
HHDT	0.2259	22.59	6,602,860	18,090	6.26	2888.6	1,054,324
MCY	0.0004	0.04	10,361	28	40.54	0.7	256
Buses/Other	0.0100	1.00	292,348	801	7.43	107.8	39,344
Total	—	100.0	29,234,209	80,094		5,795.5	2,115,361

Project Operations Natural Gas Use

Source: CalEEMod Output

A-Z Truck Center Project - Buildout Year Operations

kBTU/yr = kilo-British Thermal Units/year

CalEEMod Land Use	Natural Gas Use (kBTU/yr)
Hotel	4,928,827
Fast Food Restaurant w/o Drive Thru	700,189
Convenience Market (24 hour)	427,001
Automobile Care Center	845,669
Parking Lot	0
Unenclosed Parking Structure	0
Other Non-Asphalt Surfaces	0
Other Asphalt Surfaces	0
Other Asphalt Surfaces	0
Total	**6,901,686 kBTU/yr**

Project Operations Electricity Use

Source: CalEEMod Output

A-Z Truck Center Project - Buildout Year Operations

kWh/yr = kilowatt hours per year

CalEEMod Land Use	Electricity Use (kWh/yr)
Hotel	878,400
Fast Food Restaurant w/o Drive Thru	250,225
Convenience Market (24 hour)	750,833
Automobile Care Center	244,876
Parking Lot	410,777
Unenclosed Parking Structure	45,322
Other Non-Asphalt Surfaces	0.00
Other Asphalt Surfaces	0.00
Other Asphalt Surfaces	0.00
Total	**2,580,433 kWh/yr**

*The estimates above account for total consumption and does reflect incorporation of renewable energy.

Construction Trailer Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Construction Trailer
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	25.8
Location	37.122511, -120.245331
County	Madera
City	Chowchilla
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2543
EDFZ	5
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 ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	0.72	1000sqft	0.02	720	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.04	0.04	0.04	0.25	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	56.6	56.6	< 0.005	< 0.005	0.23	57.8
Area	0.01	0.02	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.13	0.13	< 0.005	< 0.005	—	0.13
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.25	0.23	0.48	0.03	< 0.005	—	1.29
Waste	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.05	0.06	0.04	0.29	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.61	75.6	76.2	0.07	< 0.005	0.23	79.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.04	0.23	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	52.3	52.3	< 0.005	< 0.005	0.01	53.3
Area	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.25	0.23	0.48	0.03	< 0.005	—	1.29
Waste	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.04	0.05	0.05	0.23	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.61	71.2	71.8	0.07	< 0.005	0.01	74.6

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.03	0.17	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	40.5	40.5	< 0.005	< 0.005	0.07	41.3
Area	< 0.005	0.02	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.06	0.06	< 0.005	< 0.005	—	0.06
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.8
Water	—	—	—	—	—	—	—	—	—	—	—	0.25	0.23	0.48	0.03	< 0.005	—	1.29
Waste	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.03	0.04	0.04	0.19	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.61	59.4	60.0	0.07	< 0.005	0.08	62.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	6.70	6.70	< 0.005	< 0.005	0.01	6.83
Area	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.01
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.09	3.09	< 0.005	< 0.005	—	3.11
Water	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04	0.08	< 0.005	< 0.005	—	0.21
Waste	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.21
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.01	0.01	0.01	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.10	9.84	9.94	0.01	< 0.005	0.01	10.4

4. Operations Emissions Details

4.2. Energy

4.2.1. Electricity Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9.43	9.43	< 0.005	< 0.005	—	9.53
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.43	9.43	< 0.005	< 0.005	—	9.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9.43	9.43	< 0.005	< 0.005	—	9.53
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.43	9.43	< 0.005	< 0.005	—	9.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1.56	1.56	< 0.005	< 0.005	—	1.58
Total	—	—	—	—	—	—	—	—	—	—	—	—	1.56	1.56	< 0.005	< 0.005	—	1.58

4.2.3. Natural Gas Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.22	9.22	< 0.005	< 0.005	—	9.24
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.22	9.22	< 0.005	< 0.005	—	9.24
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.22	9.22	< 0.005	< 0.005	—	9.24

Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.22	9.22	< 0.005	< 0.005	—	9.24
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.53	1.53	< 0.005	< 0.005	—	1.53
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.53	1.53	< 0.005	< 0.005	—	1.53

5. Activity Data

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)
General Office Building	16,881	204	0.0330	0.0040	28,756

8. User Changes to Default Data