

Appendix B

Air Quality Technical Report and North
Site Remainder Area Technical Report

Air Quality Technical Report

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EDH COSTCO PROJECT AIR QUALITY TECHNICAL REPORT EL DORADO HILLS, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

Acronym	Definition
µg	microgram
ACC	Advanced Clean Cars
ACF	Advanced Clean Fleets
ACT	Advanced Clean Trucks
AERMOD	American Meteorological Society/Environmental Protection Agency regulatory air dispersion model
AP-42	United States Environmental Protection Agency's Compilation of Air Pollutant Emission Factors
AQ	Air Quality
ASF	age sensitivity factor
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
Cal/EPA	California Environmental Protection Agency
CalEEMod	California Emission Estimator Model
CAP	criteria air pollutant
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CO	carbon monoxide
CPF	cancer potency factors
cREL	chronic reference exposure level
DPM	diesel particulate matter
EDCAQMD	El Dorado County Air Quality Management District
EDH	El Dorado Hills
EMFAC	EMission FACTors model
EV	electric vehicle
EVR	enhanced vapor recovery
g/s	gram per second
GDF	gasoline dispensing facility
HARP	Hot Spots Analysis and Reporting Program
HI	hazard index
HIA	acute hazard index
HIC	chronic hazard index
hp	horsepower
HQ	hazard quotient
HRA	health risk assessment
HVAC	heating, ventilation, and air conditioning
kg	kilogram
Kittelson	Kittelson & Associates, Inc
L	liter

ACRONYMS AND ABBREVIATIONS (*Continued*)

Acronym	Definition
lbs	pounds
LOS	level of service
m ³	cubic meter
MCAB	Mountain Counties Air Basin
mg	milligram
MSAT	mobile source air toxics
NAAQS	National Ambient Air Quality Standards
NED	National Elevation Datasets
NO	nitric oxide
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NO _x	oxides of nitrogen
O ₃	ozone
OEHHA	California Office of Environmental Health Hazard Assessment
OFFROAD	Off-road Emissions Inventory Program model
Pb	lead
PCAPCD	Placer County Air Pollution Control District
PG&E	Pacific Gas & Electric
PM	particulate matter
PM ₁₀	particulate matter less than 10 microns in diameter
PM _{2.5}	particulate matter less than 2.5 microns in diameter
Ramboll	Ramboll Americas Engineering Solutions, Inc.
REL	reference exposure level
ROG	reactive organic gases
SIP	State Implementation Plan
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO ₂	sulfur dioxide
SO _x	sulfur oxide
TAC	toxic air contaminant
T-BACT	best available control technology for toxics
TRU	transport refrigeration unit
USEPA	United States Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound
ZEV	zero emission vehicle

1. INTRODUCTION

Ramboll Americas Engineering Solutions, Inc. (Ramboll) was retained to prepare an Air Quality (AQ) Technical Report for the proposed El Dorado Hills (EDH) Costco Project (Project) located north of the Silva Valley Parkway/US 50 interchange in the El Dorado Hills community area of the unincorporated El Dorado County in California. This AQ Technical Report analyzes the Project's impacts on air quality from construction and operations. In particular, this report describes the existing setting of the Project site, describes the relevant regulatory setting, discusses the methodology used to evaluate AQ emissions related to the Project, and evaluates potential impacts related to AQ that would be affected as a result of implementation of the Project.

1.1 Existing Conditions

The Project site is currently vacant grassland with scattered oak trees and seasonal drainage features. There are no permanent structures on the Project site. The southern edge of the property directly abuts the US 50 right-of-way, while the western boundary is adjacent to Clarksville Crossing. An approximate 7.75-acre portion of the northern site is reserved for a planned future extension of Country Club Drive, which is not part of the proposed Project.

Surrounding land uses include:

- North: Single-family residential uses and Oak Meadow Elementary School
- East: Vacant land, Tong Road, and single-family residential uses
- South: U.S. Highway 50 and Tong Road
- West: Clarksville Crossing roadway, open space, and undeveloped land

1.2 Proposed Project

The 43.26-acre project site is separated into two components: the North Site of approximately 24.83 acres and the South Site of approximately 18.43 acres. A membership-only Costco fuel facility and employee parking would occupy part of the North Site, while the South Site would accommodate the main Costco warehouse retail building and a partially below-grade parking structure. The majority of the North Site is not proposed to include any development as part of the Project.

1.2.1 North Site

On the North Site, approximately 3.29 acres would be developed with a Costco members-only fuel facility and an employee parking area. The remainder of the North Site would include an approximately 13.79-acre out-parcel that would remain undeveloped at this time (North Site Remainder Area). The Costco Project proposes no development for the North Site Remainder Area. The future extension of Country Club Drive (County Capital Improvement Project No. 36105008), when constructed by the County, would occupy a portion of the North Site near its northern edge, though the future extension is an independent project proposed by, and to be undertaken by, the County and is not analyzed as a part of the Project.

The fuel facility would occupy a generally rectangular footprint near Silva Valley Parkway, and the employee parking would be situated immediately west of the canopy, separated by drive aisles and landscaping.

Site Access and Roadway Improvements

Primary access to the North Site would be provided via a new signalized intersection on Silva Valley Parkway, shared with the South Site's main driveway. A secondary right-in/right-out driveway north of that intersection would separate fueling operations from primary traffic flows. Fuel delivery trucks would enter the northern driveway and exit at the signal to allow safe left turns. Sidewalks, bike lanes, and pedestrian connections would be provided along the North Site's frontage, north of the signalized intersection.

Architecture

The proposed fuel facility includes a steel canopy structure of up to 13,000 square feet, covering four fueling bays with four two-sided dispensers each (32 fueling positions total). A small, up to 200-square-foot controller enclosure would house operational equipment. The canopy design features neutral colors with corporate striping to align with Costco's brand, and recessed LED lighting directing illumination downward.

Construction

Construction for the North Site is anticipated to last approximately 11 months once construction begins, which is currently estimated to be July of 2026. Construction would occur 7 days per week, with construction occurring 7:00 a.m. to 7:00 p.m. on weekdays and 8:00 a.m. to 5:00 p.m. on weekends.

Operations

Fuel facility hours would generally be from 5:00 a.m. to 10:00 p.m. The facility is expected to receive approximately four to five fuel truck deliveries per day. These deliveries would be staged in a striped area north of the canopy. Approximately 70 employee parking spaces would serve Costco employees; circulation is designed to keep fuel facility traffic and employee parking separate.

1.2.2 South Site

The South Site would include up to approximately 165,000 square feet of building area planned to be constructed as a Costco Wholesale Member Warehouse retail store. Within the store, Costco would offer, among other product and services, optical exams and optical sales, hearing aid testing and sales, food service preparation and sales, meat preparation and sales, bakery and sales of baked goods, alcohol sales, and tire sales and installation. Temporary outdoor sales may occur within the portion of the parking area adjacent to the warehouse retail building for seasonal sales, such as Christmas tree sales during the months of November and December. The warehouse retail building is proposed to include one customer entrance to the main Costco store, which would be located at the northwest corner of the building. The tire center would have bay doors accessible from outside of the warehouse retail building, though the tire center sales area would be accessible through the building. A promotional vehicle may be on display near the customer entrance to the building. This vehicle would be used to promote online or off-site vehicle sales; no vehicles are proposed to be sold onsite. The South Site would also include a parking structure and surface parking, which are further described below. Development on the South Site would exclude the 1.38-acre area located west of Clarksville Crossing where no development is proposed.

The South Site has been designed to use the existing slope of the site by locating the Costco warehouse retail building in the southeast corner of the site, where the elevation of existing streets adjacent to the site are the highest. Parking would be provided in two at-grade parking lots and one subterranean (below-grade) parking lot structure beneath one of the at-grade lots. Vehicle access to this lower-level parking structure would be provided by a ramp on the north side of the structure from Clarksville Crossing and a ramp on the south side of the structure from the above at-grade parking lot. The below-grade parking structure would include approximately 200 to 230 spaces. A pedestrian ramp and elevators would provide pedestrian access from the below-grade level up to the at-grade parking and entry to the warehouse retail building. The below-grade parking structure and at-grade parking lots together would include approximately 750 to 780 spaces in total parking to serve the South Site.

Site Access and Roadway Improvements

The primary entrance to the South Site would be from the new signalized intersection with Silva Valley Parkway (shared with the North Site). Northbound traffic on Silva Valley Parkway would have a left-turn pocket into Clarksville Crossing, and three driveways off Clarksville Crossing would provide direct access to the South Site. A partial traffic signal would be installed at the intersection of Silva Valley Parkway and Clarksville Crossing. In the future, when Country Club Drive is extended by the County, Clarksville Crossing's connection to Silva Valley Parkway and the traffic signal would be removed. A public access road would be developed on the South Site within the remainder parcel that was taken by the County in connection with the development of Tong Road. A maintenance agreement between the County and Costco would be created to address the maintenance of the new public access road.

Delivery truck access would be allowed at all driveway locations depending on the size of the delivery truck and direction of travel for both the North Site and South Site. Most trucks delivering to the warehouse retail building would access the site at the southwest driveway on Clarksville Crossing near the receiving docks.

Architecture

The warehouse retail building design for the South Site is proposed to be contemporary and would include a variety of massing and appropriate materials for the building. By combining concrete masonry block and architectural metal panels, Costco intends to create a scale and architectural interest to minimize the visual impact of a large retail warehouse retail building. By use of design techniques such as the location of building materials, landscaping, and the incorporation of varying parapet cap heights, Costco proposes to break the long elevations both horizontally and vertically at the appropriate height to conceal roof top mounted mechanical equipment. The proposed colors are warm natural earth tones, which would relate to the proposed surrounding development by utilizing similar building materials and architectural detailing. The tire center would be integrated into the main building, with exterior bay doors and interior retail access for sales and service. Pedestrian entries (main and employee) would be oriented to the northwest for customer convenience and the tire center from the other warehouse retail building operational areas.

The South Site truck loading dock is proposed to be located at the southwest corner of the building adjacent to US 50. The bay doors would be equipped with sealed gaskets to limit noise impacts. A smaller on-grade door would also be located on the south side of the

building. This door is to receive bread deliveries and small delivery vans/trucks. A transformer and two trash compactors would also be located along the south edge of the building proposed for the South Site. Landscape material would provide screening of this area

Parking, Circulation, and Loading

Two at-grade lots and one below-grade lot together provide approximately 750 to 780 parking stalls. Access to the South Site would consist of a signalized intersection on Silva Valley Parkway, as well as driveways provided along Clarksville Road. These driveways would provide customer access to both at-grade and below-grade parking stalls. Delivery trucks would access sealed loading docks at the building's southwest corner.

Construction

As with the North Site, construction for the South Site is anticipated to last approximately 11 months once construction begins, which is currently estimated to be July of 2026. Construction would occur 7 days per week, with construction occurring 7:00 a.m. to 7:00 p.m. on weekdays and 8:00 a.m. to 5:00 p.m. on weekends. In addition to these construction hours, it is anticipated that there would be up to 8 days of nighttime construction activities involving concrete pours for the building foundation.

Operations

The warehouse retail building is proposed to include one member entrance to the main Costco store, which would be located at the northwest corner. The EDH Costco is expected to include, among other features, a bakery and sales of baked goods, meat preparation and sales, alcohol sales, food service preparation and sales, pharmacy, optical center with optical exams and retail optical sales, hearing aid testing center, and food court, along with the sales of approximately 4,000 products. The warehouse retail building would include a five-bay tire center with member access via the inside of the main Costco building, which would include tire sales and a tire installation facility.

It is anticipated that the EDH Costco Project (warehouse retail building and fuel facility) would employ approximately 250 to 300 employees combined. The warehouse retail building would in general be open from 9:00 a.m. to 8:30 p.m. on weekdays and 9:00 a.m. to 7:00 p.m. on weekends. Costco anticipates an average of about 10 to 12 trucks delivering goods per day. The trucks range in size from 26 feet long for single-axle trailers to 70 feet long for double-axle trailers. Receiving time would be from 2:00 a.m. to 1:00 p.m., averaging 2 to 3 trucks per hour, with most of the deliveries completed before 10:00 a.m. Deliveries to the warehouse retail building are made primarily in Costco trucks from its freight consolidation facility in Tracy, California, coming to the site from eastbound US 50. Truck travel routes would use Silva Valley Parkway (from US 50 to Clarksville Road), Clarksville Road (from White Rock Road to Silva Valley Parkway), future Country Club Drive extension west of the South Site to access Clarksville Road, and White Rock Road (from Clarksville Road to US 50).

The tire center receives shipments of tires once or twice a week, with old tires transported offsite for recycling. Seasonal outdoor sales of items such as Christmas trees may occur in the parking area. In addition, promotional vehicle displays may appear outside, but no on-site vehicle sales would occur.

Energy Efficiency Features

As noted above, the South Site would obtain electrical and natural gas services from Pacific Gas & Electric (PG&E). The development would comply with energy efficiency standards under California Code of Regulations Title 24. Additional energy efficiency and sustainability measures incorporated into the Costco Project are noted below.

- Parking lot light standards would be designed in order to provide even light distribution, and utilize less energy compared to a greater number of fixtures at lower heights. The use of LED lamps can provide a higher level of perceived brightness with less energy than other lamps such as high-pressure sodium.
- New and renewable building materials would typically be extracted and manufactured within the region. When masonry and concrete are used, the materials purchased would be local to the Project, minimizing the transportation distances and impact to local road networks.
- The use of pre-manufactured building components, including structural framing and metal panels, would help to minimize waste during construction.
- Pre-manufactured metal wall panels with insulation carry a higher R-Value and greater solar reflectivity to help conserve energy as compared to other materials. Building heat absorption would be further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall.
- A substantial amount of the proposed landscaping material for the North Site and South Site is climate adapted to the region and would use less water than other common landscape species.
- The irrigation system proposes to include the use of deep root watering bubblers for parking lot trees to minimize usage and ensure that water goes directly to the intended planting areas.
- Storm water management plans are designed to maintain water quality, minimize erosion, and manage storm water discharge rates based on the County requirements.
- High-efficiency restroom fixtures would be installed.
- Commissioning of mechanical systems would occur to ensure that the HVAC systems are performing as designed. HVAC comfort systems would be controlled by a computerized building management system to maximize efficiency.
- HVAC units planned for the South Site are high-efficiency direct ducted units, which have phased out the use of hydrochlorofluorocarbons completely.
- Parking lot and exterior lights would be controlled by a photo sensor and time clock.
- 10 electric vehicle (EV) chargers with DC fast chargers would be installed.
- Lighting would be controlled by the overall Project energy management system.
- Energy efficient Transformers (i.e., Square D Type EE transformers) would be used.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94 percent efficient or greater.

- Reclaim tanks would be used to capture heat released by refrigeration equipment to heat domestic water in lieu of venting heat to the outside.
- The building structure would be a pre-engineered system that uses 100 percent recycled steel materials and would be designed to minimize the amount of material used.
- Construction waste would be recycled whenever possible.
- Floor sealant would be No-volatile organic compound (VOC) and would represent over 80 percent of the floor area.
- CO₂ would be monitored throughout the warehouse.
- Extensive recycling/reuse program would be implemented including tires, cardboard, grease, plastics, and electronic waste.
- Use of plastic shopping bags would be avoided.
- Suppliers would be required to reduce packaging and consider alternative packaging solutions.
- Distribution facilities would be strategically located to minimize miles traveled for delivery.
- Deliveries would be made in full trucks.
- All Costco trucks would be equipped with an engine idle shut off timers.
- 100 percent renewable electrical power will be supplied by PG&E, as Costco has a Clean Energy Contract with PG&E.

2. ENVIRONMENTAL BACKGROUND

2.1 Criteria Air Pollutants

Criteria air pollutants (CAPs) are defined as pollutants for which the federal and State governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and State standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive people from illness or discomfort. Pollutants of concern include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter less than 10 microns in diameter (PM_{10}), particulate matter less than 2.5 microns in diameter ($PM_{2.5}$), and lead (Pb). In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as CAPs. These pollutants are discussed in the following paragraphs.

2.1.1 Ozone

O_3 is a colorless gas that is formed in the atmosphere when VOCs, sometimes referred to as reactive organic gases, and oxides of nitrogen (NO_x) react in the presence of ultraviolet sunlight. O_3 is not a primary pollutant; it is a secondary pollutant formed by complex interactions of two pollutants directly emitted into the atmosphere. The primary sources of VOCs and NO_x , the precursors of O_3 , are automobile exhaust and industrial sources. Meteorology and terrain play major roles in O_3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. Short-term exposures (lasting for a few hours) to O_3 at levels typically observed in El Dorado County can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes.

2.1.2 Nitrogen Dioxide

Most NO_2 , like O_3 , is not directly emitted into the atmosphere but is formed by an atmospheric chemical reaction between nitric oxide (NO) and atmospheric oxygen. NO and NO_2 are collectively referred to as NO_x and are major contributors to O_3 formation. The primary sources of NO, the precursor to NO_2 , include automobile exhaust and industrial sources. High concentrations of NO_2 can cause breathing difficulties and result in a brownish red cast to the atmosphere, causing reduced visibility. There is some indication of a relationship between NO_2 and chronic pulmonary fibrosis, and some increase in bronchitis in children (2 and 3 years old) has also been observed at concentrations below 0.3 parts per million by volume.

2.1.3 Carbon Monoxide

CO is a colorless and odorless gas formed by the incomplete combustion of fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In areas, such as the Project location, automobile exhaust accounts for the majority of CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions, primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, a typical situation at dusk between November and February. The highest levels of CO typically occur during the

colder months of the year when inversion conditions, where a layer of warm air sits atop cool air, are more frequent and can trap pollutants close to the ground. In terms of health, CO competes with oxygen, often replacing it in the blood, thus reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can be dizziness, fatigue, and impairment of central nervous system functions.

2.1.4 Sulfur Dioxide

Sulfur Dioxide (SO₂) is a colorless, pungent gas formed primarily by the combustion of sulfur-containing fossil fuels. The main sources of SO₂ are coal and oil used in power plants and industries; as such, the highest levels of SO₂ are generally found near large industrial complexes. In recent years, SO₂ concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO₂ and limits placed on the sulfur content of fuels. SO₂ is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. SO₂ can also yellow plant leaves and erode iron and steel.

2.1.5 Particulate Matter

Particulate matter (PM) pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. PM_{2.5} and PM₁₀ represent fractions of particulate matter. Fine particulate matter, or PM_{2.5}, is roughly 1/28 the diameter of a human hair. PM_{2.5} results from fuel combustion (e.g., motor vehicles, power generation, and industrial facilities), residential fireplaces, and woodstoves. In addition, PM_{2.5} can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs. Inhalable or coarse particulate matter, or PM₁₀, is about one-seventh the thickness of a human hair. Major sources of PM₁₀ include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions.

PM_{2.5} and PM₁₀ pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM_{2.5} and PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the bloodstream, causing damage elsewhere in the body. Additionally, these substances can transport absorbed gases, such as chlorides or ammonium, into the lungs, also causing injury. Whereas PM₁₀ tends to collect in the upper portion of the respiratory system, PM_{2.5} is so tiny that it can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

2.1.6 Lead

Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline, the manufacturing of batteries, paint, ink, ceramics, ammunition, and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phase-out of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phase-out of leaded gasoline, secondary lead

smelters, battery recycling, and manufacturing facilities are becoming lead emission sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth.

2.1.7 Sulfates

Sulfates are the fully oxidized form of sulfur, which typically occur in combination with metals or hydrogen ions. Sulfates are produced from reactions of SO₂ in the atmosphere. Sulfates can result in respiratory impairment, as well as reduced visibility.

2.1.8 Vinyl Chloride

Vinyl chloride is a colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.

2.1.9 Hydrogen Sulfide

Hydrogen sulfide is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of hydrogen sulfide include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.

2.1.10 Visibility-Reducing Particles

Visibility-reducing particles are any particles in the air that obstruct the range of visibility. Effects of reduced visibility can include obscuring the view shed of natural scenery, reduced airport safety, and discouraging tourism. Sources of visibility-reducing particles are the same as for PM_{2.5} described above.

2.2 Non-Criteria Air Pollutants

2.2.1 Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic non-cancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, waste processing facilities and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and non-carcinogenic effects. Non-carcinogenic effects typically affect one or more target organ systems and may be experienced either on short-term (acute) or long-term (chronic) exposure to a given TAC.

2.2.2 Diesel Particulate Matter

Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. California Air Resources Board (CARB) classified "particulate emissions from diesel-fueled engines" (DPM; 17 California Code of Regulations 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars, and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM.¹ To reduce the cancer risk associated with DPM, CARB adopted a Diesel Risk Reduction Plan in 2000.

2.3 Environmental Setting

2.3.1 Federal and State Ambient Air Quality Standards Attainment Status

The Federal Clean Air Act (CAA) requires the adoption of National Ambient Air Quality Standards (NAAQS), which are periodically updated, to protect the public health and welfare from the effects of air pollution. Current federal standards are set for SO₂, CO, NO₂, O₃, PM₁₀, PM_{2.5}, and Pb.²

The State of California also has established additional standards, known as the California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. The current NAAQS and CAAQS are shown in **Table 2-1**.

Specific geographic areas are classified as either "attainment" or "non-attainment" areas for each pollutant based upon the comparison of measured data with the NAAQS and CAAQS. Those areas designated as "non-attainment" for purposes of NAAQS compliance are required to prepare regional air quality plans, which set forth a strategy for bringing an area into compliance with the standards. These regional air quality plans developed to meet federal requirements are included in an overall program referred to as the State Implementation Plan (SIP). If the SIP is deemed acceptable, the United States Environmental Protection Agency (USEPA) will delegate responsibility for implementation pursuant to the SIP to the State and/or its air districts therein.

Table 2-2 summarizes the attainment status of El Dorado County (El Dorado County Air Quality Management District) for the pollutants regulated by the NAAQS and CAAQS.^{3,4} As seen in **Table 2-2**, El Dorado County is currently in attainment (including where unclassified) for the federal PM₁₀ standard, the federal and State annual PM_{2.5} standards, the federal and State CO standards, the federal and State NO₂ standards, the federal and State lead standard, the federal and State SO₂ standards, and the State standards for hydrogen sulfide, sulfates, and visibility-reducing particles. However, as also shown in **Table 2-2**, El Dorado County is currently designated as non-attainment for the State 1-hour O₃

¹ CARB. 2012. Summary: Diesel Particulate Matter Health Impacts. Available at: <https://ww2.arb.ca.gov/resources/summary-diesel-particulate-matter-health-impacts>. Accessed: October 2025.

² NAAQS. Available at: <https://www.epa.gov/criteria-air-pollutants/naaqs-table>. Accessed: October 2025.

³ USEPA. Non-attainment Areas for Criteria Pollutants (Green Book). Available at: <https://www.epa.gov/green-book>. Accessed: October 2025.

⁴ California standard attainment status based on CARB website. Available at: <https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations>. Accessed: October 2025.

standard, the federal and State 8-hour O₃ standards, the State PM₁₀ standards, and the federal 24-hour PM_{2.5} standard.

2.3.2 Local Air Quality Monitoring Data

The Project is located within the El Dorado County Air Quality Management District (EDCAQMD) jurisdiction. The EDCAQMD includes two municipalities: the City of South Lake Tahoe and the City of Placerville. The Folsom-Natoma Street monitoring station is the station closest to the Project which monitors ambient concentrations of O₃, PM_{2.5}, and NO₂. The nearest monitoring stations to the Project site that monitor ambient concentrations of PM₁₀, SO₂, and CO are the Roseville-N Sunrise Ave monitoring station, the Sacramento-Del Paso Manor monitoring station, and the Sacramento-Bercut Drive monitoring station, respectively. The location of these monitoring stations can be viewed on the CARB air monitoring webpage map of air monitoring sites in operation.⁵

The three most recent years of published data at these monitoring stations are provided in **Table 2-3**. The frequency with which the ozone and PM standards have been exceeded at the nearest monitoring sites is displayed in **Table 2-4**.

⁵ CARB. Air Monitoring. Available at: <https://ww2.arb.ca.gov/applications/air-monitoring-sites-interactive-map>. Accessed: October 2025.

3. SIGNIFICANCE THRESHOLDS

3.1 California Environmental Quality Act Guidelines

The analysis provided in this report evaluates the significance of the Project's CAP and TAC emissions by reference to the following questions from Section III, Air Quality, of Appendix G of the California Environmental Quality Act (CEQA) Guidelines:⁶

- Threshold 1.** Would the Project conflict with or obstruct implementation of the applicable air quality plan?
- Threshold 2.** Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?
- Threshold 3.** Would the Project expose sensitive receptors to substantial pollutant concentrations?
- Threshold 4.** Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

An evaluation of the Project based on the thresholds discussed above is provided in subsequent sections.

3.2 El Dorado County Air Quality Management District Thresholds

The EDCAQMD has established significance thresholds to assess the impacts of Project-related construction and operational emissions on regional and local ambient air quality in its CEQA Guide.⁷ **Table 3-1** shows the quantitative mass daily thresholds for construction and operation as adopted by the EDCAQMD for reactive organic gases (ROG) and NO_x emissions. The analysis summarized in this report estimates Project-related construction and operational mass emissions and compares the emissions to these significance thresholds.

The EDCAQMD has also established significance thresholds for other criteria pollutants, including CO, PM₁₀, SO₂, NO₂, sulfates, lead, hydrogen sulfide (H₂S), and visibility-reducing particles. Project-related emissions of these pollutants are considered to have significant impacts if these emissions will cause or contribute to a violation of the applicable national or State ambient air quality standard. The EDCAQMD provides screening techniques to evaluate if a project's CAP emissions would have a less-than-significant impact in Chapters 4 and 6 of the EDCAQMD CEQA Guide.⁸ This analysis in this report estimates the Project-related construction and operational mass emissions of CO, PM₁₀, SO_x, and NO_x and evaluates the significance of their impacts using these screening techniques established in the EDCAQMD CEQA Guide.⁹

⁶ California Natural Resources Agency. 2018. Appendix G of the CEQA Guidelines. Available at: http://resources.ca.gov/ceqa/docs/2018_CEQA_FINAL_TEXT_122818.pdf. Accessed: October 2025.

⁷ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁸ Ibid.

⁹ Ibid.

The EDCAQMD has also established significance thresholds to assess health risk impacts of TACs from Project-related emission sources on nearby sensitive receptors including residents and other human populations. These include a maximum incremental cancer risk of one-in-a-million (or ten-in-a-million if best available control technology for toxics (T-BACT) is applied), and incremental chronic and acute hazard indices of 1. The analysis summarized in this report evaluates the human health risk impacts from on-site construction and operational emissions against these significance thresholds established by EDCAQMD.

Finally, the EDCAQMD CEQA Guide also required a qualitative assessment of odors from proposed projects to evaluate if they would have the potential to generate odorous emissions that would meet the statutory definition for nuisance, i.e., odors "which cause detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which may endanger the comfort, repose, health, or safety of any such person or the public, or which may cause, or have a natural tendency to cause, injury or damage to business or property."¹⁰

3.3 Project Approach to Significance

This report, relative to threshold 1, evaluates the proposed Project for consistency with applicable plans related to emissions, including the regional air quality attainment plans. This report, relative to threshold 2, quantifies the Project's emissions during construction and operations and compares those results to the applicable EDCAQMD thresholds. Relative to threshold 3, this report includes a CO hotspots analysis and summarizes results of the health risk assessment which assesses the potential health risk impacts to sensitive receptors. This report, relative to threshold 4, evaluates the potential for odor-generating activities from the proposed Project.

¹⁰ Ibid.

4. AIR QUALITY EMISSIONS INVENTORY

This section describes the methodology that Ramboll used to develop the CAP inventories associated with the Project, which include one-time emissions associated with construction of the Project, and emissions associated with operation of the Project. Construction is expected to occur in mid-2026 to mid-2027. Emissions due to operation of the Project are therefore quantified for the anticipated first year of operations, i.e., 2027. This is a conservative assumption for mobile source emissions as these emissions are expected to decrease in future years with the transition of the Statewide mobile source fleet to lower-emitting technologies resulting from the implementation of federal and State mobile source regulations. Sub-categories of operational emissions include the following: area, energy, mobile, and stationary sources.

4.1 Resources

4.1.1 California Emission Estimator Model

Ramboll primarily utilized the California Emissions Estimator Model (CalEEMod) version 2022.¹¹ methodology to assist in quantifying the CAP emissions in the inventories presented in this report for the proposed Project. CalEEMod provides methodologies to calculate both construction emissions and operational emissions from a land use development project. It calculates daily or annual CAP emissions. Specifically, the model methodology aids the user in the following calculations:

- One-time short-term construction emissions from off-road construction equipment, and on-road worker, vendor, and hauling vehicles during the construction of the Project and site access and roadway improvements.
- Operational emissions associated with the proposed Project buildout condition such as on-road mobile vehicle traffic generated by the land uses; area sources such as landscaping equipment, architectural coatings, and consumer products; energy sources that use natural gas combustion; and stationary sources such as emergency generators.

CalEEMod is a statewide program designed to calculate both CAP and greenhouse gas emissions from development projects in California developed under the auspices of the South Coast Air Quality Management District, with input from other California air districts, and is currently supported by numerous lead agencies for use in quantifying the emissions associated with development projects undergoing environmental review. CalEEMod utilizes widely accepted models for emission estimates combined with appropriate default data that can be used if site-specific information is not available. These models and default estimates use sources such as the USEPA AP-42 emission factors,¹² CARB's on-road and off-road equipment emission models such as the Emission FACtor model (EMFAC) and the Emissions Inventory Program model (OFFROAD), and studies commissioned by California agencies such as the California Energy Commission and CalRecycle.

¹¹ CAPCOA. 2022. California Emissions Estimator Model User's Guide. Version 2022.1. Available at: <https://caleemod.com/user-guide>. Accessed: October 2025.

¹² The USEPA maintains a compilation of Air Pollutant Emission Factors and process information for several air pollution source categories. The data is based on source test data, material balance studies, and engineering estimates. Available at: <https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emissions-factors>. Accessed: October 2025.

As mentioned above, CalEEMod is based upon the CARB-approved OFFROAD and EMFAC models. OFFROAD¹³ is an emission factor model used to calculate emission rates from off-road mobile sources (e.g., construction equipment, agricultural equipment). The off-road diesel emission factors used by CalEEMod are based on the CARB OFFROAD2017 program. EMFAC is an emission factor model used to calculate emissions rates from on-road vehicles (e.g., passenger vehicles). CalEEMod 2022.1 contains EMFAC2021 emission factors.¹⁴ These emissions factors were then used to estimate mobile source operational emissions based on CalEEMod methodology and defaults along with Project-specific values where available.

In addition, CalEEMod contains default values and existing regulation methodologies to use in each specific local air district region. Appropriate statewide default values can be utilized if regional default values are not defined. Ramboll used default factors for the El Dorado-Mountain County area for the emissions inventory, unless otherwise noted in the methodology descriptions below.

Details regarding the specific methodologies used by CalEEMod can be found in the CalEEMod User's Guide and associated appendices.¹⁵

4.1.2 Project Data

Where possible, Ramboll utilized Project-specific data to estimate the emissions associated with Project construction and operation. This data (e.g., activity information for construction, gasoline annual throughput dispensed at the gasoline dispensing facility [GDF], and Kittelson & Associates, Inc's [Kittelson's] Trip Generation Summary¹⁶) was obtained through communication with the Project applicant.

4.2 Construction Emissions

This section describes the calculation of CAP emissions from construction activities at the proposed Project site. While the exact construction schedule and equipment mix may vary from the current analysis, the emissions are not expected to be higher than that calculated given the conservative assumptions included in the analysis.

This analysis includes estimation of CAP emissions from the following major construction phases for the proposed Project:

- Site Preparation involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.
- Grading involves the cut-and-fill of land to ensure the proper base and slope for the construction foundation.
- Building Construction involves the construction of structures and buildings.
- Paving involves the laying of concrete or asphalt such as in parking lots or roads.

¹³ CARB. 2017. Off Road Mobile Source Emission factors. Available at: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory>. Accessed: October 2025.

¹⁴ CARB. 2022. EMFAC2021. Available at: <https://ww2.arb.ca.gov/our-work/programs/msei/on-road-emfac>. Accessed: October 2025.

¹⁵ CAPCOA. 2022. California Emissions Estimator Model User's Guide. Version 2022.1. Available at: <https://caleemod.com/user-guide>. Accessed: October 2025.

¹⁶ Kittelson & Associates. 2025. El Dorado Costco CEQA Analysis. July 23.

- Architectural Coating involves the application of coatings to both the interior and exterior of buildings or structures, and the painting of parking lot striping, associated signage, and curbs.

Note, two scenarios are considered for the construction of the proposed Project that have different material movement amounts in the grading phase. Scenario 1 assumes that the excavated material from portions of the Project site will be used as fill during grading. Scenario 2 conservatively assumes that all the excavated material will be exported offsite and soil will be imported for fill during grading.

Besides this, the analysis also includes an estimation of the CAP emissions associated with the following construction phases for the site access and roadway improvements:

- Linear, Grubbing & Land Clearing involves removing vegetation, trees, stumps (grubbing), and clearing stones or other debris from roads, in preparation for grading and excavation.
- Linear, Grading & Excavation involves demolition of existing surfaces and cut-and-fill activities to ensure the proper base and slope for road construction.
- Linear, Drainage, Utilities, & Sub-Grade involves the road construction activities including installation of drainage systems, utility lines, and preparing and compacting the sub-grade to support the road pavement.
- Linear, Paving involves the laying of concrete or asphalt for road surfaces.

The proposed schedule for constructing the Project and the site access and roadway improvements are shown in **Table 4-1** and **Table 4-2** respectively. Construction-related emissions of ROGs, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} were estimated using CalEEMod. PM emissions are composed of exhaust emissions and fugitive emissions. Exhaust emissions are typically given out by a combustion engine of on-road vehicles and/or off-road equipment. Fugitive emissions are PM dust suspended in the air by wind action and construction-related activities.

The off-road construction equipment list and specifications are based on the Project-specific information and supplemented with CalEEMod model defaults, as shown in **Table 4-3** and **Table 4-4**. The Project-specific worker, vendor, and hauling trips supplemented with CalEEMod defaults are displayed in **Table 4-5**, **Table 4-6**, and **Table 4-7**. **Table 4-8**, **Table 4-9**, and **Table 4-10** present material volumes which are anticipated to be imported and exported for Project construction Scenario 1, Project construction Scenario 2, and site access and roadway improvements respectively. Additionally, **Table 4-11** presents an estimate of the demolition debris that would be generated and shipped offsite during the Linear, Grubbing & Land Clearing construction phase for the site access and roadway improvements.

4.2.1 Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the equipment list and phase length, and on-road vehicle trips and phase length.

Since the majority of the off-road construction equipment used for construction projects are diesel-fueled, CalEEMod methodology assumes all of the equipment operates on diesel fuel. The calculations include the running exhaust emissions from off-road equipment. Since the equipment is assumed to be diesel, there are no starting emissions associated with the equipment, as these are *de minimis* for diesel-fueled equipment. CalEEMod calculates the exhaust emissions based on default values for horsepower and load factor from CARB's OFFROAD2017 methodology using the equation presented below.¹⁷

$$Emissions_{Diesel} = \sum_i (EF_i \times Pop_i \times AvgHP_i \times Load_i \times Activity_i)$$

Where:

EF	= Emission factor in grams per horsepower-hour as processed from OFFROAD2017
Pop	= Population, or the number of pieces of equipment
AvgHp	= Maximum rated average horsepower
Load	= Load factor
Activity	= Hours of operation
i	= equipment type

Construction would include on-site equipment during the following construction phases that generate fugitive dust: site preparation, grading, linear, grubbing & land clearing, and linear, grading & excavation. The construction-related equipment assumptions based on the Project-specific information and supplemented with CalEEMod model defaults are shown in **Table 4-3** and **Table 4-4**. The combustion emissions from these equipment were calculated using CalEEMod; the fugitive dust emissions from these equipment were calculated using the quantity of material moved and AP-42 emissions factors (see **Section 4.2.3** for further details).

4.2.2 Emissions from On-Road Construction Trips

Construction generates on-road vehicle CAP emissions from worker and vendor commuting, concrete trucks, and trucks used for construction debris and soil/material hauling.

These emissions are calculated in CalEEMod based on the number of trips and vehicle miles traveled (VMT) (**Table 4-5**, **Table 4-6**, and **Table 4-7**) along with emission factors from EMFAC2021. The numbers of worker and vendor trips represent defaults from CalEEMod based on the construction equipment to be used. The number of haul trips was estimated by CalEEMod based on the volume of soil to be imported/exported (**Table 4-8**, **Table 4-9**, and **Table 4-10**) and the amount of demolition debris generated (**Table 4-11**). The number of concrete truck trips were based on Project-specific information.

¹⁷ CAPCOA. 2022. California Emissions Estimator Model User's Guide, Appendix C. Available at: https://caleemod.com/documents/user-guide/04_Appendix%20C.pdf. Accessed: October 2025.

Additionally, the emissions associated with on-site idling of concrete trucks during the building construction phase were estimated using concrete truck trip rates, idling duration per trip, and emission factors from EMFAC2021. Refer to **Table A-1** and **Table A-2** in **Appendix A** for further details.

4.2.3 Fugitive Dust

Fugitive dust contributes to PM₁₀ and PM_{2.5} emissions and is generated by the various construction activities including entrained road dust, grading, demolition, and truck loading.

Entrained road dust is generated by vehicle travel on paved and unpaved roads. Emission factors for entrained road dust are on a "per mile" basis. In CalEEMod, entrained road dust emission factors are based on the equations presented in the Paved Roads and Unpaved Roads chapters of USEPA's AP-42 and are then multiplied by the total VMT for Project-related trips. 0.10% of construction worker vehicle trips and 0.07% of construction trucks trips (vendor, hauling, and concrete trucks) were assumed to occur on unpaved roads based on the GIS analysis performed by Kittelson & Associates.¹⁸ Emissions from entrained road dust were estimated using CalEEMod and are presented in **Appendix A**.

Fugitive dust emissions from bulldozing equipment (i.e., rubber-tired dozers), grading equipment (i.e., graders, rubber-tired dozers, and scrapers), and demolition activity occur during the Project construction. In addition, truck loading activities would generate fugitive dust emissions. The construction material movement and demolition assumptions are presented in **Table 4-8, Table 4-9, Table 4-10, and Table 4-11**.

Fugitive dust will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1 for fugitive dust control.¹⁹ CalEEMod defaults assume watering the construction site twice a day reduces the fugitive dust emissions by 61%. Emissions from these sources were estimated using CalEEMod and are presented in **Appendix A**.

4.2.4 Architectural Coating

Evaporation of solvents contained in architectural coatings that are applied to interior and exterior surfaces of building and used for parking lot painting/stripping result in VOC evaporative emissions. CalEEMod was used to estimate these VOC evaporative emissions during Project construction. Ramboll utilized VOC contents of 150 grams per liter and 100 grams per liter as inputs in CalEEMod for architectural coatings on interior/exterior building surfaces and parking lot painting/stripping respectively. These VOC content values are based on the VOC limits defined in EDCAQMD Rule 215 for Architectural Coatings.²⁰ Emissions from architectural coatings during construction are presented in the CalEEMod model run files shown in **Appendix A**.

¹⁸ Kittelson & Associates. 2025. Technical Memorandum Regarding El Dorado Hills Costco Warehouse - Estimated Travel on Unpaved Roads. August 8.

¹⁹ EDCAQMD. 2005. Rule 223-1 Fugitive Dust – Construction, Bulk Material Handling, Blasting, Other Earthmoving Activities and Carryout and Trackout Prevention. Available at: <https://ww2.arb.ca.gov/sites/default/files/classic/technology-clearinghouse/rules/RuleID809.pdf>. Accessed: October 2025.

²⁰ EDCAQMD. 2024. Rule 215 – Architectural Coatings. Available at: <https://eldorado.legistar.com/LegislationDetail.aspx?ID=6779392&GUID=226948B1-3CF4-4769-AB77-0847C5CBB92F&FullText=1#>. Accessed: October 2025.

4.2.5 Paving

CalEEMod was used to estimate the VOC off-gassing emissions associated with asphalt paving. The emissions associated with paving are presented in the CalEEMod model run files in **Appendix A**.

4.2.6 Total Construction Emissions

Maximum daily unmitigated construction emissions for each time period with overlapping construction phases for the two Project construction scenarios are estimated by summing up the maximum daily emissions associated with each overlapping construction phase for the proposed Project and the site access and roadway improvements in that scenario, as shown in **Table A-3** and **Table A-4** in **Appendix A**.

As noted previously under **Section 4.2**, Project construction Scenario 1 assumes that the excavated material from portions of the Project site will be used as fill during grading, while Project construction Scenario 2 conservatively assumes that all the excavated material will be exported offsite, and soil will be imported for fill during grading. The average daily unmitigated construction emissions for each quarter (3-month period) of construction for Project construction Scenarios 1 and 2 are estimated using the maximum daily construction emissions for each time period with overlapping construction phases within the respective scenarios. This is summarized in **Table 4-12**.

As shown in **Table 4-12**, the average daily unmitigated ROG and NO_x emissions associated with the construction of Project under both construction scenarios are below EDCAQMD mass daily significance thresholds for construction. While EDCAQMD has not adopted mass daily numerical thresholds for other CAP emissions from construction, the EDCAQMD CEQA Guide²¹ states that if ROG and NO_x exhaust emissions from construction are deemed not significant, then exhaust emissions of CO and PM₁₀ may also be deemed not significant. Hence, air quality impacts of all CAPs (ROG, NO_x, CO, and PM₁₀) from the exhaust of construction equipment and on-road vehicles associated with the construction of the proposed Project are less than significant.

The EDCAQMD CEQA Guide²² states that fugitive dust PM₁₀ emissions may be assumed to be not significant if the project complies with EDCAQMD Rule 223 and Rule 223-1 for fugitive dust control by implementing control measures that will prevent visible dust beyond the project property lines. The proposed Project will comply with these fugitive dust control rules. Hence, the air quality impacts of fugitive dust emissions from the construction proposed Project are less than significant.

Construction activities are expected to generate negligible emissions of SO₂, sulfates, lead, and H₂S. Therefore, the air quality impacts of these emissions from the construction of the proposed Project are also less than significant.

²¹ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

²² Ibid.

4.3 Operational Emissions

This section describes the calculation of CAP emissions from Project operational activities. As noted previously, operational emissions are quantified for the anticipated first year of Project operation, i.e., 2027. The following sub-sections describe the methodologies used to estimate emissions from the following operational source categories: area, energy, mobile, and stationary.

4.3.1 Area Sources

Area sources are those emission sources that are generally too small to be uniquely identified as point sources and are thus generally aggregated as a group. CalEEMod estimates emissions for the following sources under the category of “area” sources: landscaping equipment (e.g., lawn mowers), consumer products, and architectural coatings.

The CAP emissions generated by area sources associated with Project operation were calculated using CalEEMod and can be viewed in **Appendix B-1**.

CalEEMod default assumptions for the Project land uses were used to estimate the CAP emissions from landscaping equipment.

To estimate the VOC emissions from consumer products, Ramboll replaced the statewide default ROG emission factor for consumer product usage in CalEEMod with the ROG emission factor for consumer product usage in El Dorado County, where the proposed Project is located. As shown in **Table 4-13**, this emission factor was estimated using CARB’s ROG consumer product inventory²³ and projected total building square footage²⁴ for El Dorado County in calendar year 2027, consistent with CalEEMod methodologies.

CalEEMod was used to estimate the VOC emissions from evaporation of solvents contained in architectural coatings that are routinely applied to interior and exterior surfaces of building and used for parking lot painting/stripping during Project operation. Ramboll utilized VOC contents of 150 grams per liter and 100 grams per liter as inputs in CalEEMod for architectural coatings on interior/exterior building surfaces and parking lot painting/stripping respectively. These VOC content values are based on the VOC limits defined in EDCAQMD Rule 215 for Architectural Coatings.²⁵

CAP emissions due to natural gas combustion in buildings, could also be considered area sources, but are reported by CalEEMod in the emissions associated with building energy use (described below).

4.3.2 Energy Sources

CAP emissions are emitted from buildings as a result of activities that typically rely on natural gas as an energy source. Ramboll utilized CalEEMod default assumptions to calculate the annual natural gas usage for each of the proposed Project’s land uses except for the GDF, which does not use natural gas in its operation. To account for the GDF’s energy use,

²³ CARB. California Emissions Projection Analysis Model, CEPAM2019v1.04. Available at: <https://ww2.arb.ca.gov/applications/cepam2019v1-04-standard-emission-tool>. Accessed: October 2025.

²⁴ Total building square footage in 2027 was estimated as the product of the countywide building square footage per person in 2020 multiplied by the population projection for El Dorado County in calendar Year 2027. Refer to **Table 4-13** for further details.

²⁵ EDCAQMD. 2024. Rule 215 – Architectural Coatings. Available at: <https://eldorado.legistar.com/LegislationDetail.aspx?ID=6779392&GUID=226948B1-3CF4-4769-AB77-0847C5CBB92F&FullText=1#>. Accessed: October 2025.

CalEEMod default natural gas values were converted into equivalent electricity usage by applying the ratio of efficiencies between natural gas and equivalent electric appliances.

Table 4-14 summarized the operational energy assumptions of the proposed Project by land use type. The annual energy use and corresponding CAP emissions for the proposed Project from the natural gas consumption are shown in the CalEEMod output file in **Appendix B-1**. Direct CAP emissions are not associated with electricity usage.

4.3.3 Stationary Sources

The proposed Project includes two diesel-powered emergency generators, each rated at 250 horsepower (hp), to support warehouse operations. Testing and maintenance of each generator is not expected to exceed 50 hours per year or 1 hour on any given day. Emissions from emergency generator operation were estimated using default assumptions in CalEEMod. The resulting CAP emissions estimates are provided in the CalEEMod output file in **Appendix B-1**.

4.3.4 Operational Gasoline Transfer and Dispensing

Emissions from gasoline transfer and dispensing mainly occur during loading, breathing, refueling, spillage, and from hose permeation. Emission factors were obtained from the CARB and California Air Pollution Control Officers Association (CAPCOA) guidance for GDFs.²⁶ Emissions were calculated based on the anticipated permitted annual throughput of 23.00 million gallons per year. These emissions are presented in **Table 4-15**.

4.3.5 Mobile Sources

The CAP emissions associated with on-road mobile sources are generated from customers' and employees' vehicles, and delivery trucks (i.e., fuel delivery trucks; warehouse and tire center delivery trucks; and transport refrigeration units (TRUs) that are mounted on the trailers of some warehouse delivery trucks) traveling to and from the Project site. The emissions associated with on-road vehicles include running, idling and starting exhaust emissions, evaporative emissions, tire wear, brake wear, and entrained road dust. Running emissions are dependent on VMT. Starting and evaporative emissions are associated with the number of starts or time between vehicle uses and the assumptions used in determining these values are described below. Exhaust emissions from TRUs are dependent on the operational duration of TRUs. Ramboll relied upon the traffic analyses conducted by Kittelson²⁷ and Project-specific information for estimating the emissions from mobile sources as described in the following sub-sections.

The analysis includes the benefit of reductions from adopted regulatory programs that are accounted for within EMFAC2021 including Assembly Bill 1493 ("the Pavley Standard"), the Advanced Clean Cars (ACC) program, the USEPA/National Highway Traffic Safety Administration Advanced Fuel Economy, and the Heavy-Duty Omnibus regulation.

²⁶ CARB and CAPCOA. 2022. Gasoline Service Station Industrywide Risk Assessment Technical Guidance. February 18. Available at: <https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance%20ADA%20Compliant.pdf>. Accessed: October 2025.

²⁷ Kittelson & Associates. 2025. El Dorado Costco CEQA Analysis. July 23.

Public Law 119-17, enacted on June 12, 2025, is a House joint resolution that disapproves the Clean Air Act waiver granted by USEPA for the Heavy-Duty Omnibus regulation under the Congressional Review Act.²⁸ As noted above, this analysis uses EMFAC2021 which incorporates the benefits of Heavy-Duty Omnibus regulation. However, EMFAC2021 does not account for the benefits associated with the implementation of CARB's Heavy-Duty Inspection/Maintenance (HD I/M) program, also known as the Clean Truck Check program. Excluding the emission benefits of the Heavy-Duty Omnibus regulation from this analysis would slightly increase the CAP emissions from Project-related delivery trucks by less than 4%. Nonetheless, this increase is expected to be offset by the benefits associated with the HD I/M program, which are anticipated to result in greater reductions (5-20%) of CAP emissions as compared to the Heavy-Duty Omnibus regulation.²⁹ Therefore, this analysis remains unaffected by Public Law 119-17.

Public Law 119-15, enacted on June 12, 2025, is a House joint resolution that disapproves the CAA waiver granted by USEPA for the Advanced Clean Trucks (ACT) Regulation, which is a zero emission vehicle (ZEV) sales mandate for truck manufacturers.³⁰ While EMFAC2021 incorporates reductions associated with the ACT regulation, this analysis assumes that all Project-related delivery trucks are diesel-fueled. Hence, Public Law 119-15's disapproval of California's CAA waiver for ACT regulation does not impact this analysis.

Public Law 119-16, enacted on June 12, 2025, is a House joint resolution that disapproves the CAA waiver granted by USEPA for the ACC II regulation, which is a ZEV sales mandate for passenger vehicle manufacturers.³¹ Additionally, on January 13, 2025, CARB withdrew its waiver request for the Advanced Clean Fleets (ACF) regulation, which requires fleet owners to reduce emissions by increasing the use of zero emissions trucks in their fleets by replacing existing diesel/gasoline trucks.³² EMFAC2021 does not incorporate the benefits of the ACC II

²⁸ United States Code. 2025. Public Law 119-17 - Joint resolution providing congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to "California State Motor Vehicle and Engine and Nonroad Engine Pollution Control Standards; The 'Omnibus' Low NOX Regulation; Waiver of Preemption; Notice of Decision". Available at: <https://www.govinfo.gov/app/details/PLAW-119publ17>. Accessed: October 2025.

²⁹ CARB. EMFAC2021 Model and Documentation - EMFAC2021 Interim Off-Model Adjustment Factors for the Heavy-Duty Inspection and Maintenance Program. Available at: <https://ww2.arb.ca.gov/our-work/programs/msei/emfac2021-model-and-documentation>. Accessed: October 2025.

³⁰ United States Code. 2025. Public Law 119-15 - Joint resolution providing congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to "California State Motor Vehicle and Engine Pollution Control Standards; Heavy-Duty Vehicle and Engine Emission Warranty and Maintenance Provisions; Advanced Clean Trucks; Zero Emission Airport Shuttle; Zero-Emission Power Train Certification; Waiver of Preemption; Notice of Decision". Available at: <https://www.govinfo.gov/app/details/PLAW-119publ15>. Accessed: October 2025.

³¹ United States Code. 2025. Public Law 119-16 - Joint resolution providing congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to "California State Motor Vehicle and Engine Pollution Control Standards; Advanced Clean Cars II; Waiver of Preemption; Notice of Decision". Available at: <https://www.govinfo.gov/app/details/PLAW-119publ16>. Accessed: October 2025.

³² California Air Resources Board. 2025. Withdrawal of California's Request for a Waiver, Pursuant to Clean Air Act Section 209(b), and Request for Authorization, Pursuant to Clean Air Act Section 209(e)(2), for the Advanced Clean Fleets (ACF) Regulation, Docket ID EPA-HQ-OAR-2023-0589. January 13. Available at: <https://www.epa.gov/system/files/documents/2025-01/ca-acf-carb-withdrawal-ltr-2025-1-13.pdf>. Accessed: October 2025.

and ACF regulations; therefore, CAP reductions associated with these regulations are not included in this analysis.

4.3.5.1 Calculating Mobile Source Emissions

Mobile source emissions calculation requires trip rates, trip lengths, and idle time for each on-road vehicle trip type associated with the proposed Project (e.g., passenger vehicles and delivery trucks). Additionally, the operational time for TRU engines that are mounted on some of the trailers delivered to the warehouse is required to estimate exhaust emissions from TRUs. The following sections describe the methodology to derive the necessary inputs for these calculations.

a) On-Road Vehicle Trip Generation Rates

The total trip generation rates for passenger vehicles (customer and employees) visiting the proposed Project were provided by Kittelson. The number of TRU equipped trailers that are brought onsite by warehouse delivery trucks and the trip generation rates for fuel and warehouse/tire center delivery trucks are based on Project-specific estimates. These are summarized in **Table B-1** in **Appendix B**.

b) Vehicle Miles Traveled

The VMT of passenger vehicles (customer and employees) was provided by Kittelson. The VMT of delivery trucks was calculated as the product of trip rates and trip lengths as shown in **Table B-1** in **Appendix B**. The trip length for delivery trucks is based on Project-specific estimates.

c) On-Road Vehicle Idle Duration

The passenger vehicle (customer and employees) idling durations for vehicles queuing at the GDF were provided by Kittelson (**Table B-1** in **Appendix B**). The idle duration for delivery trucks is assumed to be 15 minutes for each round trip (maximum of 5 minutes at Project site entry, 5 minutes at the loading area, and 5 minutes at Project site exit), consistent with CARB's Air Toxic Control to Limit Diesel-Fueled Commercial Motor Vehicle Idling.³³

d) TRU Operational Time

The total operational time for each TRU equipped trailer that is brought onsite by a warehouse delivery truck is estimated as the sum of the on-site truck idling time and the travel time for the truck round trip (**Table B-1** in **Appendix B**). As noted above, the on-site truck idling time is assumed to be 15 minutes. The truck travel time for each warehouse delivery truck round trip is estimated as the ratio of the round trip length to the average vehicle speed. For purposes of this analysis, the average vehicle speed was assumed to be 30 miles per hour for off-site travel and 5 miles per hour for on-site travel consistent with CARB's assumptions in Appendix I of the Proposed Amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate.³⁴ Refer to **Table B-1** in **Appendix B** for further details.

³³ CARB Air Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Available at: <https://ww2.arb.ca.gov/our-work/programs/atcm-to-limit-vehicle-idling/about>. Accessed: October 2025.

³⁴ CARB. 2021. Appendix I of the Proposed Amendments to the Airborne Toxic Control Measure for In-Sue Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities where TRUs operate. July 17. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: October 2025.

e) Fleet Mix

The CalEEMod default fleet mix for passenger vehicles in El Dorado-Mountain County (**Table B-2** in **Appendix B**) was adjusted using the default VMT distribution for passenger vehicle technology/fuel categories in EMFAC2021 to determine the Project-specific fleet mix of the passenger vehicles visiting the Project site (**Table B-3** in **Appendix B**). Passenger vehicles visiting the GDF represent vehicles used by patrons of the fuel facility and are assumed to only include plug-in hybrids and gasoline-fueled vehicles. Warehouse and employee passenger vehicles represent the vehicles used by patrons and employees of the warehouse and include gasoline, plug-in hybrid, electricity, and diesel-fueled vehicles. All delivery trucks were assumed to be heavy heavy-duty diesel trucks.

f) Mobile Source Emission Factors

Exhaust, evaporative, tire wear, and brake wear emission factors for passenger vehicles and delivery trucks were estimated using the Project-specific fleet mix and EMFAC2021 mobile source emission factor data for El Dorado-Mountain County. These calculations are presented in **Tables B-4 through B-11** in **Appendix B**.

Entrained road dust is generated by vehicle travel on paved and unpaved roads. Emission factors for entrained road dust are on a “per mile” basis. Entrained road dust emission factors were calculated following guidance in the CalEEMod User’s Guide, Appendix A, which is based on Paved Roads and Unpaved Roads chapters of USEPA’s AP-42. Entrained road dust emission factors for PM₁₀ and PM_{2.5} are shown in **Table B-12** in **Appendix B**. 99.90% of Project-related passenger vehicle travel is assumed to occur on paved roads and the remaining 0.10% is assumed to occur on unpaved roads based on the GIS analysis performed by Kittelson & Associates.³⁵ All truck travel was assumed to occur on paved roads based on Project-specific information on truck routes. Exhaust emission factors for TRUs were calculated using OFFROAD2021 outputs for in-State and out-of-State trailer TRUs operating in El Dorado-Mountain County as shown in **Table B-13** in **Appendix B**.

4.3.5.2 Mobile Source Emissions

The maximum daily CAP emissions from mobile sources associated with the proposed Project operation are presented in **Table B-14** in **Appendix B**. This includes emissions from passenger vehicles, delivery trucks, and TRUs.

As shown in **Table B-14** in **Appendix B**, CAP emissions from passenger vehicles and delivery trucks are estimated using Project-specific trip rates, VMT, idle time (**Table B-1** in **Appendix B**) and running exhaust, tire wear, brake wear, idling exhaust, starting exhaust, evaporative, and entrained road dust emission factors for these vehicle types (**Tables B-4 through B-12** in **Appendix B**).

CAP emissions from TRUs are also estimated in **Table B-14** in **Appendix B** using the Project-specific TRU operational time (**Table B-1** in **Appendix B**) and TRU exhaust emission factors from OFFROAD2021 (**Table B-13** in **Appendix B**).

³⁵ Kittelson & Associates. 2025. Technical Memorandum Regarding El Dorado Hills Costco Warehouse - Estimated Travel on Unpaved Roads. August 8.

4.3.6 Total Operational Emissions

Table 4-16 summarizes the proposed Project's maximum daily operational CAP emissions. As shown in this table, the maximum daily ROG and NO_x emissions associated with Project operation are below EDCAQMD's mass daily significance thresholds for operation. Hence, the air quality impacts of these pollutants from the operation of the proposed Project are less than significant.

While EDCAQMD has not adopted mass daily numerical thresholds for other CAP emissions, it considers a project to have a significant impact on air quality if it will cause or contribute significantly to a violation of the NAAQS or CAAQS for CO, PM₁₀, SO₂, sulfates, lead, H₂S.

The EDCAQMD CEQA Guide³⁶ states that development projects, with land use types similar to the proposed Project, that are deemed less than significant for ROG and NO_x emissions based on land use size screening criteria, can also be considered less than significant for CO emissions. Using this screening approach, we can consider the air quality impacts of CO emissions from the proposed Project operation to be less than significant because the proposed Project's ROG and NO_x emissions are less than EDCAQMD's mass daily significance thresholds. Additionally, Ramboll has also conducted a CO hotspot analysis in **Section 6** of this report. This CO hotspot analysis evaluates the ambient air quality impacts of the primary source of CO emissions associated with the proposed Project operation, i.e., on-road vehicle emissions. As described in **Section 6**, the proposed Project would not result in exceedances of CO NAAQS or CAAQS in the vicinity of the proposed Project. Hence, the air quality impacts of operational CO emissions from the proposed Project are less than significant.

The EDCAQMD CEQA Guide³⁷ states that PM₁₀ emissions from land development projects primarily associated with gasoline-powered vehicles may be assumed to be insignificant if the projects do not generate heavy-duty diesel vehicle trips in greater proportion than the general mix of such trips in public roadways. As shown in **Table 4-16**, the proposed Project's primary source of PM₁₀ emissions is mobile sources. As shown in **Table B-1** in **Appendix B**, mobile sources include passenger vehicles (GDF customer vehicles, warehouse and employee vehicles) and heavy-duty diesel vehicles (fuel delivery trucks, warehouse and tire center delivery trucks). The on-road vehicle trips generated by the proposed Project are predominately passenger vehicles. Heavy-duty diesel vehicle trips generated by the proposed Project make less than 0.25% of the total Project trips, which is lower the approximately 6% of heavy-duty diesel trucks operating on the roads in El Dorado County.³⁸ Hence, the proposed Project is not expected to generate heavy-duty diesel vehicle trips in greater proportion than the general mix of such trips in public roadways in the vicinity of the Project site and the air quality impacts of operational PM₁₀ emissions from the proposed Project are less than significant.

³⁶ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

³⁷ Ibid.

³⁸ The fraction of heavy-duty diesel trucks in the on-road vehicle population operating in El Dorado County was estimated from EMFAC2021.

The EDCAQMD CEQA Guide³⁹ states that emissions associated with project operations that are less than 10 pounds per day of a pollutant may be presumed to have impacts that are not significant for that pollutant. Since SO_x emissions associated with the proposed Project operation are less than 10 pounds per day (**Table 4-16**), emissions of these pollutants are less than significant.

The proposed Project is a development project that is not a significant source of lead, sulfates, and H₂S. Hence, the emissions of these pollutants are less than significant.

Finally, according to the EDCAQMD CEQA Guide,⁴⁰ visibility impacts from development projects can be considered less than significant. Therefore, the proposed Project impacts on visibility are less than significant.

³⁹ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁴⁰ Ibid.

5. HEALTH RISK ASSESSMENT

This health risk assessment (HRA) evaluates the estimated cancer risk, non-cancer chronic hazard index (HIC), and acute hazard index (HIA) associated with construction and operation of the proposed Project. To meet these objectives, this HRA was conducted consistent with Air Toxics Hot Spots Program Risk Assessment Guidelines developed by the California Office of Environmental Health Hazard Assessment (OEHHA).⁴¹ The health risks associated with the existing condition are not included in this analysis to be conservative.

5.1 Estimated Air Concentrations

To evaluate the health risks and concentration of air toxics in the surrounding area, the EDCAQMD CEQA Guide⁴² recommends estimating concentrations using air pollution dispersion modeling methodologies described in the most recent OEHHA Guidance.⁴³ Hence, off-site air concentrations of TACs from Project emissions are estimated using the current version of American Meteorological Society/Environmental Protection Agency regulatory air dispersion model (AERMOD). Details on the inputs and methodology used in the dispersion modeling are discussed further in the sections below.

5.1.1 Toxic Air Contaminant Emissions

Ramboll evaluated excess lifetime cancer risk, HIC, and HIA for off-site sensitive receptors from proposed Project construction and operational emissions.

In particular, the lifetime cancer risk, HIC, and HIA analysis in the construction HRA assesses impacts from TAC emissions associated with DPM emissions from off-road diesel construction equipment exhaust (**Table C-1 in Appendix C**), and diesel trucks (**Table C-2 and Table C-3 in Appendix C**) operated during construction of the proposed Project.

As noted previously in **Section 4.2**, the criteria air pollutant emissions associated with two construction scenarios are evaluated. Project construction Scenario 1 assumes that the excavated material from portions of the Project site will be used as fill during grading, while Project construction Scenario 2 conservatively assumes that all the excavated material will be exported offsite, and soil will be imported for fill during grading. Hence, the emissions associated with Scenario 2 are higher than that from Scenario 1. Therefore, for purposes of this HRA, the TAC emissions associated with Project construction Scenario 2 were evaluated.

Additionally, as noted in **Section 1.2.1**, the construction equipment greater than 50 hp used at the site shall be mitigated to meet USEPA Tier 4 Final emission standards for PM₁₀ and PM_{2.5}. If Tier 4 Final equipment is viable but not available, all construction equipment larger than 50 hp used at the site shall meet USEPA emission standards for Tier 3 engines and include PM emissions control equivalent to CARB Level 3 verifiable diesel emission control devices. To be conservative, this analysis assumed that Tier 3 engines with PM emissions control equivalent to CARB Level 3 verifiable diesel emission control devices would be used

⁴¹ California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. February. Available at: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>. Accessed: October 2025.

⁴² EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁴³ Cal/EPA, OEHHA. 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. February. Available at: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>. Accessed: October 2025.

onsite to model the potential mitigated construction emissions if Tier 4 Final equipment is not available.

The proposed Project is located in an area where naturally occurring asbestos (NOA) could be present.⁴⁴ Hence, there is a concern that NOA may be released along with fugitive dust emissions during construction of the proposed Project. As a result, the Project proponent conducted a Geotechnical Study⁴⁵ of the proposed Project site and performed soil sampling to assess the presence of NOA. The result of the Asbestos Sampling Report⁴⁶ showed that NOA was not detected in each of the ten bulk soil samples that were collected from the Project site. Additionally, the Geotechnical Study referenced the Asbestos Review Area maps published by Churchill et al. in 2000,⁴⁷ which indicate the Project site is in an area that has been removed as mappable NOA bearing unit based on geologic evaluation. Therefore, the Geotechnical Study concluded that the potential for NOA to be encountered at levels at or exceeding regulatory threshold level is considered low. Consequently, health risks from any fugitive dust containing asbestos are not analyzed further in this report.

The operational HRA assesses impacts from TAC emissions associated with gasoline transfer and dispensing at the GDF (**Table C-4 in Appendix C**); operation of the emergency generators at the proposed warehouse (**Table C-5 in Appendix C**); operation of delivery trucks and TRUs (**Table C-6 in Appendix C**); and the on-site queuing of passenger vehicles that visit the GDF (**Tables C-7 and C-8 in Appendix C**).

A brief description of the methodologies used to estimate the TAC emissions from Project construction and operation is provided below.

Off-Road Construction Equipment

The analysis of off-road equipment that are expected to operate during the construction of proposed Project including the site access and the roadway improvements focused on the diesel exhaust emissions from these equipment. Diesel exhaust, a complex mixture that includes hundreds of individual constituents, is identified by the State of California as a known carcinogen.^{48,49} Under California regulatory guidelines, DPM is used as a surrogate measure of exposure for the mixture of chemicals that make up diesel exhaust as a whole. We conservatively assumed that all PM₁₀ from diesel-fueled equipment is DPM.

⁴⁴ El Dorado County. Asbestos Review Areas, Western Slope, County of El Dorado, State of California. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/construction-dust-rules/asbestos-review-map-8-22-18.pdf>. Accessed: October 2025.

⁴⁵ Kleinfelder, 2024. Geotechnical Study, Proposed Costco Fuel Facility, Silva Valley Parkway, El Dorado Hills, California, CW# 18-0487. December 2024.

⁴⁶ Asbestos TEM Laboratories, Inc. Laboratory Job #1519-00003. July 25, 2025.

⁴⁷ Churchill, R. K., Higgins, C. T., and Hill, B. 2000. Areas More Likely to Contain Natural Occurrences of Asbestos in Western El Dorado County, California, California Geological Survey, Open-File Report 2000-002.

⁴⁸ Cal/EPA, OEHHA. 1998. Findings of the Scientific Review Panel on The Report on Diesel Exhaust, as adopted at the Panel's April 22, 1998, meeting.

⁴⁹ Cal/EPA, OEHHA. 2024. OEHHA/ARB Consolidated Table of Approved Risk Assessment Health Values. December. Available at: <https://www.arb.ca.gov/toxics/healthval/contable.pdf>. Accessed: October 2025.

The unmitigated DPM emissions from off-road equipment used during the proposed Project construction are presented in **Table C-1** in **Appendix C** respectively. These emissions were obtained from the CalEEMod model files for Project construction Scenario 2 and construction of the site access and roadway improvements presented in **Appendix A**.

Mobile Sources

The analysis of Project-related mobile source emissions focused on TAC components of VOC and PM emissions found in gasoline and diesel vehicle exhaust, and diesel TRU exhaust. The TACs analyzed in this HRA are based on the Federal Highway Administration's nine priority mobile source air toxics (MSATs), listed below.

- DPM
- 1,3-Butadiene
- Acetaldehyde
- Acrolein
- Benzene
- Ethyl Benzene
- Formaldehyde
- Naphthalene
- Polycyclic Organic Matter, which includes the following 15 compounds⁵⁰: acenaphthene, acenaphthylene, anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-c,d)pyrene, phenanthrene, and pyrene.

The above nine priority MSATs serve as the TACs for this HRA. Cancer and chronic non-cancer impacts of Project-related diesel-fueled construction trucks, operational delivery trucks, and TRUs were estimated using DPM emissions.⁵¹ As shown in **Tables C-2** and **C-3** in **Appendix C**, DPM emissions from construction trucks (hauling, vendor, and concrete) were obtained from CalEEMod output files for the Project construction Scenario 2 and construction of the site access and roadway improvements presented in **Appendix A**. **Table C-6** in **Appendix C** summarized the DPM emissions from operational delivery trucks and TRUs. The DPM emissions from the delivery trucks were estimated using Project-specific activity data (**Table C-9** in **Appendix C**) and DPM emission factors obtained from EMFAC2021 (**Table C-10** in **Appendix C**). The DPM exhaust emissions from TRUs were estimated using Project-specific activity data (**Table C-9** in **Appendix C**) and DPM emission factors obtained from OFFROAD2021 (**Table C-11** in **Appendix C**).

Cancer and non-cancer chronic/acute impacts for the gasoline-fueled passenger vehicles queuing at the GDF were estimated by speciating ROG and PM_{2.5} exhaust emissions from these vehicles. **Table 5-1** summarizes the speciation profiles used in this analysis. Additional

⁵⁰ FHWA. 2016. Frequently Asked Questions (FAQ) Conducting Quantitative MSAT Analysis for FHWA NEPA Documents. October. Available at: https://www.fhwa.dot.gov/environment/air_quality/air_toxics/policy_and_guidance/moves_msat_faq.pdf. Accessed: October 2025.

⁵¹ There is currently no acute non-cancer toxicity value available for DPM.

details on these speciation profiles can be found in **Table C-12** in **Appendix C**. The ROG and PM_{2.5} exhaust emissions of the gasoline-fueled passenger vehicles queuing at the GDF are summarized in **Table C-13** in **Appendix C**. These emissions were estimated using Project-specific activity data **Table C-9** in **Appendix C**) and emission factors obtained from EMFAC2021 (**Tables C-14** and **C-15** in **Appendix C**).

Gasoline Transfer and Dispensing

TAC emissions from with gasoline transfer and dispensing mainly occur during loading, breathing, refueling, spillage, and from hose permeation. The TACs analyzed in this HRA noted below, are based on the CARB/CAPCOA Guidance for GDFs.⁵²

- Benzene
- Ethyl Benzene
- n-Hexane
- Naphthalene
- Propylene
- Toluene
- Xylenes

As shown in **Table C-4** in **Appendix C**, TAC emissions are estimated using the Project-specific throughput, and the total organic gases emission factors and TAC speciation profiles obtained from CARB/CAPCOA Guidance for GDFs.⁵³

Emergency Generator

Finally, the analysis of emergency generators that are expected to operate during the proposed Project operation focused on the DPM exhaust emissions from these equipment. As shown in **Table C-5** in **Appendix C**, Ramboll obtained the DPM emissions for these generators from the CalEEMod model run for the proposed Project operation shown in **Appendix B-1**.

5.1.2 Air Dispersion Modeling Methodology

Ramboll used AERMOD Version 24142 to estimate ambient air concentrations and evaluate the health risks of TACs at off-site receptors.^{54,55} For each receptor location, the model generates air concentrations (or air dispersion factors if unit emissions [i.e., gram per second (1 g/s)] were modeled) that result from emissions from multiple sources.

⁵² CARB and CAPCOA, 2022. Gasoline Service Station Industrywide Risk Assessment Guidelines. Available at: https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf. Accessed: October 2025.

⁵³ Ibid.

⁵⁴ USEPA. 2024. User's Guide for the AMS/EPA Regulatory Model (AERMOD). November. Available at: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf. Accessed: October 2025.

⁵⁵ USEPA. 2017. Guideline on Air Quality Models (Revised). 40 Code of Federal Regulations, Part 51, Appendix W. Office of Air Quality Planning and Standards. January. Available at: <https://www.epa.gov/scram/clean-air-act-permit-modeling-guidance>. Accessed: October 2025.

Air dispersion models such as AERMOD require a variety of inputs such as source parameters, meteorological data, topography information, and receptor parameters. When site-specific information was unknown, default parameter sets that are designed to produce conservative (i.e., overestimates of) air concentrations were used.

5.1.2.1 AERMOD

AERMOD has been approved for use by USEPA, CARB, and EDCAQMD, and incorporates multiple variables in its algorithms including:

- Meteorological data representative of surface and upper air conditions;
- Local terrain data to account for elevation changes; and
- Physical specification of emission sources including information such as:
 - Location;
 - Release height; and
 - Source dimensions.

Dispersion model averaging times are specified based on the averaging times of ambient air quality standards and the air quality significance thresholds established by the appropriate regulatory agencies. For the HRA, the 1-hour averaging time was used to evaluate acute (short-term) effects and the PERIOD averaging time (average concentration for the 5-year meteorological data set) was used to calculate chronic (long-term) health effects.

In the absence of detailed guidance on the choice of AERMOD input options in the EDCAQMD CEQA Guide,⁵⁶ Ramboll utilized the Sacramento Metropolitan Air Quality Management District (SMAQMD) modeling recommendations⁵⁷ for establishing the settings for variables such as receptor heights, off-site receptor grid spacing, and the use of the regulatory default option. The air dispersion model was run using a unit emission factor approach, which is also referred to as the χ/Q ("chi over q") method. The model output based on a unit emission factor approach was incorporated into a post-processing step with the calculated emission rates to estimate the air concentrations at each receptor.

5.1.2.2 Source Characterization

As shown in **Figure 1** and **Table D-1** in **Appendix D**, DPM emissions from on-site construction equipment were modeled as 264 individual volume sources. Air dispersion modeling source parameters and grid spacing for each volume source were developed using a 20-meter x 20-meter grid of elevated volume sources based on the SMAQMD modeling recommendations.⁵⁸ Additionally, Ramboll utilized an area poly source to represent on-site concrete truck idling (**Figure 1**) during Project construction. Source parameters for this area

⁵⁶ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁵⁷ SMAQMD. 2013. Modeling of Construction-Generated PM₁₀ Emissions. Available at: <https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf>. Accessed: October 2025.

⁵⁸ Ibid.

source, shown in **Table D-2** in **Appendix D**, were developed based on the USEPA AERMOD User Guide⁵⁹ and the USEPA Transportation Conformity Guidance.⁶⁰

As shown in **Figures 2 through 4**, off-site construction truck travel, fuel delivery truck travel, and warehouse and tire center delivery truck travel were evaluated for roadway links in the Project vicinity, extending approximately a quarter mile from the proposed Project site boundary. As noted in the transportation impact analysis, El Dorado County's 20-year Capital Improvement Program includes an extension of the County Club Drive. This plan would disconnect Clarksville Crossing from Silva Parkway and result in an alternative site access configuration. As shown in **Figure 4**, warehouse and tire center delivery truck travel was analyzed on the design concept for the alternative site access configuration as that route is closer to the residences in the vicinity of the Project site. Line (area) sources were used in the air dispersion model to represent vehicle travel. Source parameters for TAC emissions associated with mobile source travel were developed based on USEPA Transportation Conformity Guidance for Hotspot Analysis.⁶¹ **Table D-3 through D-6** in **Appendix D** presents a list of modeled mobile sources, their source parameters, and emission rates. A source group was created for each roadway segment. As described earlier, modeling was done using the χ/Q method and emission rates were set to 1 gram per second for each source group. Additionally, as noted in **Table D-5** in **Appendix D**, TAC emissions from the operation of TRUs mounted on warehouse delivery trucks were modeled within the line (area) source that was setup for the warehouse delivery truck travel. This is consistent with the CARB's modeling assumptions for TRUs.⁶²

As shown in **Figure 5**, area poly sources were used to represent TAC emissions from fuel delivery truck idling at the GDF, passenger vehicle idling at the GDF, warehouse and tire center delivery truck idling at the warehouse dock, and TRU operation at the warehouse dock during Project operation. The source parameters for passenger vehicle and truck idling, shown in **Table D-2** in **Appendix D**, are based on USEPA AERMOD User Guide⁶³ and the

⁵⁹ USEPA. 2024. User's Guide for the AMS/EPA Regulatory Model. November. Available at: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf. Accessed: October 2025.

⁶⁰ USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. October. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P1013C6A.pdf>. Accessed: October 2025.

⁶¹ Ibid.

⁶² CARB. 2021. Appendix I to the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate, Table II.G.4. AERMOD Source Inputs - Cold Storage Warehouse. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: October 2025.

⁶³ USEPA. 2024. User's Guide for the AMS/EPA Regulatory Model. November. Available at: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf. Accessed: October 2025.

USEPA Transportation Conformity Guidance.⁶⁴ Source parameters for TRU idling were developed based on CARB's modeling assumptions for TRUs.⁶⁵

Figure 5 also presents the locations of the GDF emission sources, which were modeled as point sources (loading and breathing emissions) and volume sources (refueling, hose permeation, and spillage) in accordance with the CARB/CAPCOA Guidance for GDFs.⁶⁶

Tables D-1 and D-7 in Appendix D, present a summary of the source parameters for these GDF emission sources that were developed based on the dimensions of the proposed GDF and CARB/CAPCOA Guidance for GDFs.⁶⁷ The emission rate for each source was modeled as 1 gram per second.

As shown in **Figure 5**, point sources were used to represent the emissions from emergency generators that are expected to be located at the proposed warehouse. Ramboll utilized the default source parameters for emergency generators provided in the BAAQMD CEQA Guidelines,⁶⁸ to model the dispersion of DPM emissions from these sources, as detailed in **Table D-7 in Appendix D**.

5.1.2.3 Emission Rates

Emissions were modeled using the χ/Q ("chi over q") method, such that each source group has a unit emission rate (i.e., 1 g/s), and the model estimates dispersion factors (with units of micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]/[g/s]). Actual emissions were multiplied by the dispersion factors to obtain concentrations.

Construction emissions from diesel-fueled construction equipment and hauling and vendor truck travel were assumed to occur between the hours of 7:00 AM and 7:00 PM on weekdays, and 8:00 AM to 5:00 PM on weekends. Emissions from off-site concrete truck travel and on-site concrete truck idling are assumed to occur between 12:00 AM and 7:00 AM for eight consecutive days during building construction phase.

Operational emissions from warehouse and tire center delivery trucks and TRUs operation were assumed to occur between 2:00 AM and 1:00 PM, 365 days per year based on the anticipated delivery schedule for the warehouse. Emissions from refueling, hose permeation, and spillage from GDF activities as well as passenger vehicle idling at the GDF and fuel delivery trucks activity were assumed to occur between 5:00 AM to 10:00 PM, 365 days per year based on the anticipated operating schedule of the GDF. Breathing emission from gasoline storage tank at the GDF was assumed to occur 24 hours per day, 365 days per

⁶⁴ USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. October. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P1013C6A.pdf>. Accessed: October 2025.

⁶⁵ CARB, 2021. Appendix I to the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate, Table II.G.4. AERMOD Source Inputs – Cold Storage Warehouse. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: October 2025.

⁶⁶ CARB and CAPCOA, 2022. Gasoline Service Station Industrywide Risk Assessment Guidelines. Available at: <https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance%20ADA%20Compliant.pdf>. Accessed: October 2025.

⁶⁷ Ibid.

⁶⁸ BAAQMD. 2023. Bay Area Air Quality Management District California Environmental Quality Act Air Quality Guidelines. Available at: https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?rev=b8917a27345a4a629fc18fc8650951e4&sc_lang=en. Accessed: October 2025.

year. The operation of the emergency generators was also assumed to occur 24 hours per day, 365 days per year.

5.1.2.4 Land Use

The land uses surrounding the Project alignment are a mix of residential, commercial, and open spaces. AERMOD offers the option of using either rural or urban dispersion characteristics depending on the predominant land use within a three-kilometer radius of the site. According to SMAQMD guidelines⁶⁹ if 50% or more of the land within this radius is heavy industrial, light/moderate industrial, or commercial, urban dispersion must be used for Project emissions. Since Ramboll determined that less than 50% of the surrounding land is in these categories, rural dispersion characteristics were used.

Terrain elevations data for all sources and receptors except the operational on-site sources were obtained from United States Geologic Survey's National Elevation Datasets (NEDs).⁷⁰ NED 1/3-arc second data used in this analysis. Elevations of on-site sources during Project operation (GDF emission sources, passenger vehicle idling at the GDF, warehouse and tire center delivery truck idling at the warehouse dock, TRU operation at the warehouse dock, emergency generators operation at the warehouse, and on-site delivery truck travel) were based on the proposed Project's finished grade.⁷¹

Building downwash effects of the proposed warehouse building were included in the modeling due to its proximity to the emergency generator emissions. The building height and base elevation used to represent the warehouse building in the model were obtained from the preliminary architectural drawings and the preliminary grading and drainage plan.

5.1.2.5 Receptors

In order to evaluate health impacts to off-site receptors, nearby sensitive receptor populations were identified. According to EDCAQMD, sensitive receptors include residences, schools, daycares, medical facilities, convalescent centers, and elderly care facilities within quarter mile of the proposed Project site.⁷² Therefore, Ramboll included a receptor grid with a 10 meter x 10 meter spacing from the Project boundary to a quarter mile outward. The locations of all modeled receptors are illustrated on **Figure 6**. Receptor heights were assumed to be 1.8 meters based on SMAQMD guidance.⁷³

⁶⁹ SMAQMD. 2013. Modeling of Construction-Generated PM₁₀ Emissions. Available at: <https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf>. Accessed: October 2025.

⁷⁰ USGS National Elevation Dataset. Available at: <https://www.mrlc.gov/tools>. Accessed: October 2025.

⁷¹ The finished grade was obtained from the proposed Project's preliminary grading and drainage plan prepared by Kier+Wright.

⁷² EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁷³ SMAQMD. 2013. Modeling of Construction-Generated PM₁₀ Emissions. Available at: <https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf>. Accessed: October 2025.

5.1.2.6 Meteorology

CARB and SMAQMD provide AERMOD model-ready meteorological data sets for use in air quality and risk impact analyses for projects located within the EDCAQMD jurisdiction. SMAQMD's Sacramento Executive Airport (Station ID 23232) meteorological data set was selected based on its geographic proximity, and similarity in elevation and surrounding terrain to the proposed Project site. The SMAQMD meteorological data set for January 1, 2014 to December 25, 2018 was used for the analysis.⁷⁴ The meteorological station location is presented in **Figure 7**.

5.2 Risk Characterization Methods

The HRA was conducted in accordance with the most recent OEHHA Guidance,⁷⁵ as recommended by the EDCAQMD CEQA Guide.⁷⁶ The 2015 OEHHA Guidelines include various updates that are protective of human health, particularly related to estimating potential risks in infants, children, and other sensitive receptors. Lifetime cancer risk, HIC, and HIA were calculated at each receptor. TAC emissions and air dispersion modeling results were input into the Hot Spots Analysis and Reporting Program (HARP), version 22118, the OEHHA-recommended program for completing an HRA. Details of this methodology are discussed below.

5.2.1 Exposure Assessment

To calculate health impacts for comparison to EDCAQMD thresholds, this report assesses risk to residential, worker, and other sensitive receptors. Residential receptors have the highest exposure rate, as residents are assumed to live in their home for 30 years. For the purposes of this analysis, sensitive receptors (i.e., school child, daycare child, and patients) are conservatively assumed to have the same exposure rates as residents.

Exposure Assumptions: As indicated in **Table 5-2** and **Table 5-3**, the exposure parameters used to estimate the cancer risks for exposed populations were primarily sourced from the 2015 OEHHA Guidelines, as recommended by EDCAQMD CEQA Guide. For site-specific exposure options such as exposure pathways not covered in the 2015 OEHHA guidelines or the EDCAQMD CEQA Guide, Ramboll referred to the SMAQMD HRA Guidance.⁷⁷

Calculation of Intake: The dose estimated for each exposure pathway is a function of the concentration of a chemical and the intake of that chemical. The intake factor for inhalation, IF_{inh} , can be calculated as follows:

⁷⁴ SMAQMD. CEQA Guidance & Tools. Available at: <https://www.airquality.org/businesses/ceqa-land-use-planning/ceqa-guidance-tools>. Accessed: October 2025.

⁷⁵ Cal/EPA, OEHHA. 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. February. Available at: <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>. Accessed: October 2025.

⁷⁶ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁷⁷ SMAQMD. 2016. Health Risk Assessment Modeling Guidelines. Document provided by SMAQMD staff Venk Reddy, via email dated February 1, 2024.

$$IF_{inh} = \frac{DBR * FAH * EF * ED * CF}{AT}$$

Where:

IF _{inh}	= Intake Factor for Inhalation (cubic meters [m ³]/kilograms [kg]-day)
DBR	= Daily Breathing Rate (liters [L]/kg-day)
FAH	= Frequency of time at Home (unitless)
EF	= Exposure Frequency (days/year)
ED	= Exposure Duration (years)
CF	= Conversion Factor, 0.001 (m ³ /L)
AT	= Averaging Time (days)

The chemical intake or dose is estimated by multiplying the inhalation intake factor, IF_{inh}, by the chemical concentration in air, C_i. When coupled with the chemical concentration, this calculation is mathematically equivalent to the dose algorithm given in the current OEHHA Hot Spots guidance.⁷⁸

5.2.2 Age Sensitivity Factors

As a conservative and health-protective measure, the estimated excess lifetime cancer risks for a resident will be adjusted using age sensitivity factors (ASFs) that account for an “anticipated special sensitivity to carcinogens” of infants and children as recommended in the OEHHA 2009 Technical Support Document and OEHHA 2015 Air Toxics Hot Spots Program Risk Assessment Guidelines.^{79,80} Cancer risk estimates were weighted by a factor of 10 for exposures that occur from the third trimester of pregnancy to two years of age and by a factor of three for exposures that occur from two years through 15 years of age. No weighting factor (i.e., an ASF of one, which is equivalent to no adjustment) is applied to ages 16 and older.

5.2.3 Toxicity Assessment

The toxicity assessment characterizes the relationship between the magnitude of exposure and the nature and magnitude of adverse health effects that may result from such exposure. For purposes of calculating exposure criteria to be used in risk assessments, adverse health effects are classified into two broad categories – cancer and non-cancer endpoints. Toxicity values that are used to estimate the likelihood of adverse effects occurring in humans at different exposure levels are identified as part of the toxicity assessment component of a risk

⁷⁸ Cal/EPA, OEHHA. 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. Appendix D. February. Available at: <https://oehha.ca.gov/sites/default/files/media/downloads/crn/2015gmappendicesaf.pdf>. Accessed: October 2025.

⁷⁹ Cal/EPA, OEHHA. 2009. Technical Support Document for Cancer Potency Factors: Methodologies for Derivation, Listing of Available Values, and Adjustment to Allow for Early Life Stage Exposures. May. Available online at: <https://oehha.ca.gov/air/crn/technical-support-document-cancer-potency-factors-2009>. Accessed: October 2025.

⁸⁰ Cal/EPA, OEHHA. 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. Appendix D: February. Available at: <https://oehha.ca.gov/sites/default/files/media/downloads/crn/2015gmappendicesaf.pdf>. Accessed: October 2025.

assessment. Toxicity factors in the latest HARP Health Database,⁸¹ integrated into the HARP program, were used in this HRA. The HARP program contains the most up-to-date listing of available inhalation and oral cancer potency factors (CPFs), chronic inhalation and oral reference exposure levels (RELs), and acute RELs approved by Cal/EPA for use in health risk assessments.

5.3 Risk Characterization

This section describes the methods used to estimate potential adverse effects associated with off-site exposures to chemicals emitted from the Project. The results of the HRA are presented in **Section 5.4**. HARP was used to estimate carcinogenic risks and non-cancer hazard indices (HIs) associated with potential exposures to potential emissions from the Project's construction and operational emissions.

5.3.1 Estimation of Cancer Risks

Excess lifetime cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific CPF. For carcinogenic chemicals, both inhalation and non-inhalation pathways must be considered, using the CPFs in HARP. Total risk is the sum of risks attributable to each chemical considered by each pathway.

The equation used to calculate the potential excess lifetime cancer risk for the inhalation pathway is as follows:

$$Risk_{inh} = C_i \times CF \times IF_{inh} \times CPF_i \times ASF$$

Where:

Risk _{inh}	= Cancer risk; the incremental probability of an individual developing cancer as a result of inhalation exposure to a particular potential carcinogen (unitless)
C _i	= Annual average air concentration for chemical (µg/m ³)
CF	= Conversion factor (milligram [mg]/µg)
IF _{inh}	= Intake factor for inhalation (m ³ /kg-day)
CPF _i	= Cancer potency factor for chemical (mg chemical/kg body weight-day) ⁻¹
ASF	= Age sensitivity factor (unitless)

⁸¹ The latest HARP Health Database is available from ARB here: <https://www.arb.ca.gov/toxics/harp/harp.htm>. Accessed: October 2025.

5.3.1.1 Estimation of Chronic Non-Cancer Hazard Indices

The potential for exposure to result in adverse chronic non-cancer effects is evaluated by comparing the estimated annual average air concentration (which is equivalent to the average daily air concentration) to the non-cancer chronic reference exposure level (cREL) for each chemical. When calculated for a single chemical, the comparison yields a ratio termed a hazard quotient (HQ). To evaluate the potential for adverse chronic non-cancer health effects from simultaneous exposure to multiple chemicals, the HQs for all chemicals are summed, yielding a HI:

$$HQ_i = C_i / cREL$$

$$HI = \sum HQ$$

Where:

- HI = Hazard index
- HQ_i = Chronic hazard quotient for chemical i
- C_i = Annual average concentration of chemical i (µg/m³)
- cREL_i = Chronic non-cancer reference exposure level for chemical i (µg/m³)

5.3.1.2 Estimation of Acute Non-Cancer Hazard Indices

The potential for exposure to result in adverse acute non-cancer effects is evaluated by comparing the estimated 1-hour maximum air concentration to the non-cancer acute reference exposure level (aREL) for each chemical. When calculated for a single chemical, the comparison yields a ratio termed as acute HQ. To evaluate the potential for adverse acute non-cancer health effects from simultaneous exposure to multiple chemicals, the acute HQs for all chemicals are summed, yielding an acute HI:

$$Acute HQ_i = aC_i / aREL_i$$

$$Acute HI = \sum Acute HQ_i$$

Where:

- Acute HI = Acute Hazard index
- Acute HQ_i = Acute hazard quotient for chemical i
- aC_i = 1-hour maximum concentration of chemical i (µg/m³)
- aREL_i = Acute non-cancer reference exposure level for chemical i (µg/m³)

5.4 Health Risk Results

Using the HRA options for HARP detailed in **Table 5-2** and **Table 5-3** for construction and operation of the proposed Project, respectively, the cancer risk and non-cancer chronic and acute HIs for the maximally impacted residential, worker, and other sensitive receptors were estimated. Results of the HRA for the unmitigated and mitigated project at each modeled receptor are presented in **Table E-1** and **Table E-2** of **Appendix E**, respectively.

Table 5-4 summarizes the cancer risk and non-cancer chronic and acute HIs for the maximally impacted residential, worker, and other sensitive receptors associated with the unmitigated TAC emissions from the proposed Project construction and operation. This table also presents results of the acute HI at the maximally impacted roadway/open space receptors. Overall, we find that the unmitigated cancer risk at the maximally impacted receptor is above the EDCAQMD significance threshold of 10 in a million.⁸² Additionally, the unmitigated chronic and acute HIs for the maximally impacted receptor are below the EDCAQMD significance threshold of 1.0.

⁸² The EDCAQMD CEQA Guide states that a significance threshold is ten-in-a-million can be used for cancer risk if T-BACT is applied. The Project will apply T-BACT by implementing Evaporative Vapor Recovery (EVR) Phase I and EVR Phase II on GDF sources and complying with the latest CARB certification procedures.

6. MITIGATED RESULTS

6.1 Construction Mitigation Measures

As discussed in **Section 5.4**, the unmitigated cancer risk at the maximally impacted receptor is above the EDCAQMD significance threshold of 10 in a million.⁸³ To address this significant impact, the following construction mitigation measure was applied to the proposed Project:

- **Mitigation Measure 3.2-4a: Apply Tier 4 Emission Standards to Diesel-Powered Off-Road Equipment**

Construction equipment greater than 50 hp used at the site shall meet USEPA Tier 4 Final emission standards for particulate matter less than 10 microns in diameter (PM₁₀) and particulate matter less than 2.5 microns in diameter (PM_{2.5}), if available. If Tier 4 Final equipment is not available, all construction equipment larger than 50 hp used at the site shall meet USEPA emission standards for Tier 3 engines and include PM emissions control equivalent to CARB Level 3 verifiable diesel emission control devices.

Additionally, the proposed Project would also implement the following mitigation measure during the construction to ensure that any potential NOA that is encountered in the disturbed area is mitigated.

- **Mitigation Measure 3.2-4b: Implement Asbestos Dust Mitigation Consistent with EDCAQMD Rule 223-1**

An Asbestos Dust Mitigation Plan shall be prepared and submitted to the EDCAQMD and the County for review and approval by EDCAQMD for implementation during construction on the Costco Project, future development of the North Site Remainder Area, and for off-site roadway improvements (if the presence of NOA is confirmed). The Asbestos Dust Mitigation Plan shall comply with the El Dorado County Code Chapter 8.44 (Asbestos and Dust Protection) and EDCAQMD Rule 223-2, which provides performance standards for ensuring that adverse impacts do not result from asbestos dust during construction.

6.2 Emissions Inventory Results with Mitigation

Table 6-1 and **Table 6-2**, present the off-road construction equipment list and specifications for construction of the proposed Project with the implementation of **Mitigation Measure 3.2-4a**. As shown in these tables, this analysis conservatively assumed that Tier 3 engines with PM emissions control equivalent to CARB Level 3 verifiable diesel emission control devices would be used onsite to model the potential mitigated construction emissions if Tier 4 Final equipment is not available.

Maximum daily mitigated construction emissions for each time period with overlapping construction phases for the two Project construction scenarios are estimated by summing up the maximum daily emissions associated with each overlapping construction phase for the proposed Project and the site access and roadway improvements in that scenario, as shown in **Table A-5** and **Table A-6** in **Appendix A**.

⁸³ The EDCAQMD CEQA Guide states that a significance threshold is ten-in-a-million can be used for cancer risk if T-BACT is applied. The Project will apply T-BACT by implementing EVR Phase I and EVR Phase II on GDF sources and complying with the latest CARB certification procedures.

The average daily mitigated construction emissions for each quarter (3-month period) of construction for Project construction Scenarios 1 and 2 are estimated using the maximum daily construction emissions for each time period with overlapping construction phases within the respective scenarios. These are summarized in **Table 6-3**.

As shown in **Table 6-3**, the average daily mitigated ROG and NO_x emissions associated with the construction of Project under both construction scenarios are below EDCAQMD mass daily significance thresholds for construction. While EDCAQMD has not adopted mass daily numerical thresholds for other CAP emissions from construction, the EDCAQMD CEQA Guide⁸⁴ states that if ROG and NO_x exhaust emissions from construction are deemed not significant, then exhaust emissions of CO and PM₁₀ may also be deemed not significant. Hence, air quality impacts of all CAPs (ROG, NO_x, CO, and PM₁₀) from the exhaust of construction equipment and on-road vehicles associated with the construction of the proposed Project are less than significant.

The EDCAQMD CEQA Guide⁸⁵ states that fugitive dust PM₁₀ emissions may be assumed to be not significant if the project complies with EDCAQMD Rule 223 and Rule 223-1 for fugitive dust control by implementing control measures that will prevent visible dust beyond the project property lines. The proposed Project will comply with these fugitive dust control rules. Hence, the air quality impacts of fugitive dust emissions from the construction proposed Project are less than significant.

Construction activities are expected to generate negligible emissions of SO₂, sulfates, lead, and H₂S. Therefore, the air quality impacts of these emissions from the construction of the proposed Project are also less than significant.

6.3 Health Risk Assessment Results with Mitigation

Table C-16 in **Appendix C**, presents the DPM emissions from the proposed Project construction with the implementation of **Mitigation Measure 3.2-4a**. As noted previously, this analysis conservatively assumed that Tier 3 engines with PM emissions control equivalent to CARB Level 3 verifiable diesel emission control devices would be used onsite to model the potential mitigated construction emissions if Tier 4 Final equipment is not available.

Table 6-4 summarizes the cancer risk and non-cancer chronic and acute HIs for the maximally impacted residential, worker, and other sensitive receptors associated with the mitigated TAC emissions from the proposed Project construction and operation. As shown in **Table 6-4**, with the implementation of **Mitigation Measure 3.2-4a**, the cancer risk at the maximally impacted receptor reduces to a value below the EDCAQMD significance threshold of 10 in a million. The maximum chronic and acute HIs for the mitigated TAC emissions associated with the construction and operation of the proposed Project continue to be below the EDCAQMD significance threshold of 1.0.

⁸⁴ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁸⁵ Ibid.

7. CO HOTSPOTS

Mobile source impacts occur on two basic scales of motion. Regionally, Project-related travel will add to regional trip generation and increase the VMT within an air basin. Locally, Project traffic will be added to the County's roadway system. There is a potential for the formation of microscale CO "hotspots" in the area immediately around points of congested traffic. Because of continued improvement in mobile emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the Mountain Counties Air Basin (MCAB) has steadily decreased over the last two decades. MCAB has been in attainment of the 1-hour and 8-hour NAAQS and CAAQS for CO for several years and the likelihood that any single project would create a CO hotspot is minimal.

However, to verify that the proposed Project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted based on the results of the proposed Project's Traffic Impact Analysis.⁸⁶

7.1 Regulatory Background

The EDCAQMD CEQA Guide⁸⁷ provides guidance on the evaluation of CO impacts from Project-related peak period traffic levels using background CO concentrations and analysis-year factors for calendar years 2000 to 2010. As noted previously, vehicle technology has improved substantially over the last decade and the use of these outdated analysis-year factors for the CO hotspot analysis would not be appropriate.

The Placer County Air Pollution Control District (PCAPCD) 2017 CEQA Handbook⁸⁸ offers more recent guidance on evaluating CO impacts from new development projects. Ramboll used the preliminary screening methodology in the PCAPCD CEQA Handbook to evaluate the traffic related CO impacts from the proposed Project. According to these guidelines, the proposed Project would result in a less-than-significant impact to localized CO concentrations if the Project's CO emissions from vehicle operation are more than 550 pounds (lbs)/day and if either of the following scenarios is true:

- A traffic study for the Project indicates that the peak-hour level of service (LOS) on one or more streets or at one or more intersections (both signalized and non-signalized) in the Project vicinity will be degraded from an acceptable LOS (e.g., A, B, C, or D) to an unacceptable LOS (e.g., E or F); or
- A traffic study indicates that the Project will substantially worsen an already existing unacceptable peak-hour LOS on one or more streets or at one or more intersections in the Project vicinity. "Substantially worsen" includes situations where a delay would increase by 10 seconds or more when project-generated traffic is included.

⁸⁶ Kittelson & Associates. 2025. El Dorado Costco CEQA Analysis. July 23.

⁸⁷ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁸⁸ PCAPCD. 2017. 2017 CEQA Handbook. Available at: <https://www.placerair.org/DocumentCenter/View/2049/Chapter-4-Analyzing-Operational-Criteria-Pollutant-Emissions-PDF>. Accessed: October 2025.

7.2 Project Evaluation

According to the PCAPCD guidance, the CO emissions from the proposed Project operation would be less than significant if Project's CO emissions from vehicle operation are less than 550 lbs/day. As shown in **Table 4-16**, the CO emissions from mobile sources associated with the proposed Project operation are less than 550 lbs/day. Thus, the increase in CO emissions from Project-related increased traffic volumes at affected intersections and the on-site gasoline fueling facility are less than significant and the proposed Project would not expose sensitive receptors to substantial concentrations of localized CO.

8. PROJECT INVENTORY IN CONTEXT

This section assesses the significance of the proposed Project's emissions for purposes of CEQA.

8.1 Threshold 1: Would the Project conflict with or obstruct implementation of the applicable air quality plan?

According to the EDCAQMD CEQA Guide,⁸⁹ development projects in the MCAB portion of the County are considered consistent with the applicable air quality plan if:

1. The Project does not require a change in the existing land use designation (e.g., a general plan amendment or rezone), and projected emissions of ROG and NO_x from the Project are equal to or less than the emissions anticipated for the site if developed under the existing land use designation;
2. The Project does not exceed the "project alone" significance criteria;
3. The lead agency for the Project requires the Project to implement any applicable emission reduction measures contained in and/or derived from the air quality attainment plan; and
4. The Project complies with all applicable district rules and regulations.

El Dorado County's General Plan designates the Project site as Commercial (C). Zoning includes Commercial Regional-Planned Development (CR-PD), with smaller areas of Commercial Limited and Transportation Corridor. Once operational, the proposed Project would be a regional commercial center, which is consistent with the existing designation of the County's General Plan and zoning. Hence, the anticipated growth associated with the Project is generally accounted for in the 2023 Ozone Plan⁹⁰ and would be accounted for in forthcoming attainment plans.

As described in **Section 4.2.6** and **Section 4.3.6**, the air quality impacts of CAPs associated with the Project construction and operation are less than significant. Therefore, the Project does not exceed the "project alone" significance criteria.

Additionally, the proposed Project includes design features and mitigation measures that are not quantified in this analysis. Firstly, the Project would include ten direct current (DC) fast chargers which would reduce the operational ROG and NO_x emissions beyond the levels modeled in this analysis (**Section 4.3.6**), by replacing conventionally fueled VMT with EV miles traveled. Secondly, the Project will implement **Mitigation Measure 3.14-2a** and **Mitigation Measure 3.14-2b** described below, which would further reduce the operational ROG and NO_x emissions beyond levels modeled in this analysis (**Section 4.3.6**) by decreasing the vehicle miles traveled by employees.

⁸⁹ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁹⁰ Sacramento Region Air Quality Plans. Available at: <https://ww2.arb.ca.gov/our-work/programs/california-state-implementation-plans/nonattainment-area-plans/sacramento-region>. Accessed: October 2025.

- **Mitigation Measure 3.14-2a: Provide a Mandatory Commute Reduction Program for Costco Employees**

Costco shall provide a Mandatory Commute Reduction Program for employees and must include all of the following measures as described in the CAPCOA Handbook for Analyzing GHG Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity:

- **Commute Trip Reduction Marketing:** Costco shall develop and implement a marketing strategy to promote a commute reduction program. The following features (or similar alternatives) shall be provided:
 - On-site or online commuter information services;
 - Employee transportation coordinators; and
 - Guaranteed ride home service.
- **Provide Ridesharing Program:** Costco shall develop and implement a ridesharing program. The following strategies provide examples of a multifaceted approach for promoting a rideshare program:
 - Designating a certain percentage of desirable parking spaces for ridesharing vehicles;
 - Designating adequate passenger loading and unloading and waiting areas for ridesharing vehicles; and
 - Providing an app or website for coordinating rides.
- **Provide End-of-Trip Bicycle Facilities:** Costco shall install and maintain end-of-trip bicycle facilities for employee use. End-of-trip facilities include bike parking, bike lockers, showers, and personal lockers.

- **Mitigation Measure 3.14-2b: Implement Pedestrian Network Improvements**

Costco shall provide pedestrian network improvements near the site, constructing sidewalks along the project frontage on Clarksville Crossing and Silva Valley Parkway. In addition, Costco shall construct sidewalks north of the project frontage on the east side of Silva Valley Parkway to connect to existing sidewalk near Oak Meadow Elementary School, thereby providing connectivity with the surrounding neighborhood.

The applicable air quality attainment plans for the Project area are the Sacramento Regional 8-hour Ozone Attainment and Reasonable Further Progress Plan⁹¹ and PM_{2.5} Maintenance Plan and Redesignation Request.⁹² As such the proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under these plans (see **Section 7.2** below for further details). Hence, the

⁹¹ Ibid.

⁹² EDCAQMD, Placer County Air Pollution Control District, SMAQMD, and Yolo-Solano Air Quality Management District. 2013. PM_{2.5} Implementation/Maintenance Plan and Redesignation Request for Sacramento PM_{2.5} Nonattainment Area. October 24. Available at: <http://www.airquality.org/ProgramCoordination/Documents/PM2.5%20Imp%20and%20Redesignation%202013.pdf>. Accessed: October 2025.

proposed Project is not required to implement any additional mitigation measures contained in these plans.

As described in **Section 4.2.3** and **Section 5.1.1**, the proposed Project would comply with EDCAQMD Rules 223-1 and 223-2 for fugitive dust control⁹³ and asbestos hazard mitigation⁹⁴ during construction. The proposed Project is located in an area where NOA could be present.⁹⁵ Although the proposed Project's Geotechnical Study⁹⁶ concluded that the potential for NOA to be encountered at levels at or exceeding regulatory threshold level is considered low, the proposed Project would implement asbestos dust mitigation measures consistent with EDCAQMD Rule 223-1 through the implementation of **Mitigation Measure 3.2-4b**. The proposed Project would also comply with all other applicable EDCAQMD rules.

Therefore, the proposed Project would not conflict with or obstruct implementation of the applicable air quality plans for the Project region.

8.2 Threshold 2: Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

As shown in **Table 2-2**, the Project region is currently designated as non-attainment for the State 1-hour O₃ standard, the federal and State 8-hour O₃ standards, the State PM₁₀ standards, and the federal 24-hour PM_{2.5} standard.

The two primary precursors for O₃ formation are ROG and NO_x. **Table 4-12** and **Table 4-15** present the average and maximum daily ROG and NO_x emissions associated with the proposed Project construction and operation, respectively. Emissions of these O₃ precursors (ROG and NO_x) are below EDCAQMD mass daily significance thresholds for Project construction and operation. Additionally, as described in **Section 4.2.6** and **Section 4.3.6**, impacts of PM emissions from the proposed Project construction and operation are less than significant. Hence, the proposed Project would not result in a cumulatively considerable net increase in any criteria pollutant for which the Project region is non-attainment under an applicable federal or State ambient air quality standard.

⁹³ EDCAQMD. 2005. Rule 223-1 Fugitive Dust – Construction, Bulk Material Handling, Blasting, Other Earthmoving Activities and Carryout and Trackout Prevention. Available at: <https://ww2.arb.ca.gov/sites/default/files/classic/technology-clearinghouse/rules/RuleID809.pdf>. Accessed: October 2025.

⁹⁴ EDCAQMD. 2005. Rule 223-2 Fugitive Dust – Asbestos Hazard Mitigation. Available at: <https://ww2.arb.ca.gov/sites/default/files/classic/technology-clearinghouse/rules/RuleID810.pdf>. Accessed: October 2025.

⁹⁵ El Dorado County. Asbestos Review Areas, Western Slope, County of El Dorado, State of California. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/construction-dust-rules/asbestos-review-map-8-22-18.pdf>. Accessed: October 2025.

⁹⁶ Kleinfelder, 2024. Geotechnical Study, Proposed Costco Fuel Facility, Silva Valley Parkway, El Dorado Hills, California, CW# 18-0487. December 2024.

8.3 Threshold 3: Would the Project expose sensitive receptors to substantial pollutant concentrations?

8.3.1 Health Risk Thresholds

The construction-related and operational HRA results were used to assess if the Project would expose off-site receptors to substantial pollutant concentrations. As discussed in **Section 5**, the construction analysis evaluates the health risk resulting from off-road equipment DPM emissions during construction of the Project, as well as the DPM emissions from hauling, vendor, and concrete trucks. The operational analysis evaluates the health risk resulting from DPM emissions from travel and idling for fuel delivery trucks, travel and idling of warehouse and tire center delivery trucks, operation of TRUs, emergency generator operations, as well as TAC emissions from passenger vehicle idling at GDF, gasoline transfer and dispensing activities at the GDF.

As shown in **Table 5-4**, the cancer risk at the maximally impacted residential receptor associated with the unmitigated TAC emissions from the proposed Project construction and operation would exceed EDCAQMD significance threshold of 10 in a million. Therefore, the Project is expected to expose sensitive receptors to substantial TAC concentrations without mitigation.

However, with the implementation of **Mitigation Measure 3.2-4a** the cancer risk, non-cancer chronic and acute HIs at the maximally impacted residential and other sensitive receptors associated with the mitigated TAC emissions from the proposed Project construction and operation are below EDCAQMD significance thresholds (**Table 6-4**). Therefore, the mitigated Project is not expected to expose sensitive receptors to substantial TAC concentrations.

8.3.2 CO Hotspots

As described in **Section 6**, the Project would not result in a localized CO “hot spot” and is therefore not expected to have the potential to result in exceedances of the CO CAAQS/NAAQS or expose sensitive receptors to substantial pollutant concentrations.

8.4 Threshold 4: Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

According to the EDCAQMD CEQA Guide,⁹⁷ common types of facilities known to produce odors include wastewater treatment plants, landfills and composting facilities, petroleum refineries, manufacturing plants such as asphalt batch plants and chemical/fiberglass manufacturing, painting and coating operations, food processing plants, rendering plants, and coffee roasters. The proposed Project would not include any of these land uses that have been identified by the EDCAQMD as being associated with odor generation, and thus would not result in odors adversely affecting a substantial number of people. In addition, the Project does not propose to locate any sensitive receptors near an existing source of objectional odors.

⁹⁷ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

8.4.1 Construction Odors

Construction activities associated with potential odor include equipment exhaust (i.e., from off-road construction equipment), paving, and architectural coating. There are no unusual Project characteristics or construction processes that would require the use of equipment that would be more fuel intensive than is used for comparable construction activities, nor equipment that would not conform to current emission standards. It is expected that these impacts would be short-term in duration and typical of comparable activities, therefore the impacts would not adversely affect a substantial number of people and would be less than significant.

8.4.2 Operational Odors

As discussed above, the proposed Project is a commercial and retail development and does not propose any odor-generating facilities identified by the EDCAQMD. However, the proposed Project does include a gasoline fueling facility. During the operation of the Project, VOCs released at the gasoline fueling facility due to refueling, spillage, and hose permeation would be controlled to minimize odors (i.e., nozzles equipped with Phase II Enhanced Vapor Recovery systems). Therefore, odor impact from the gasoline fueling facility would not affect a substantial number of people and would be less than significant.

There may be some potential for other small-scale, localized odor issues to emerge around some of the proposed Project sources, such as solid waste collection, wastewater or stormwater collection/conveyance, or food preparation. However, these localized short-term odors would not affect a substantial number of people. Therefore, the proposed Project's operational odor impact is considered less than significant.

TABLES

Table 2-1. Summary of NAAQS and CAAQS

El Dorado Hills Costco Project
El Dorado Hills, California

Pollutant	Averaging Time	CAAQS ^{1,2}	CAAQS Sampling Method ^{1,3}	Primary NAAQS ^{2,4,5}	Secondary NAAQS ^{2,4,6}	NAAQS Sampling Method ^{4,7}
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry
Ozone (O ₃) ⁸	8 Hour	0.070 ppm (137 µg/m ³)	Ultraviolet Photometry	0.070 ppm (137 µg/m ³)	Same as Primary Standard	Ultraviolet Photometry
Respirable Particulate Matter (PM ₁₀) ⁹	24 Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
Respirable Particulate Matter (PM ₁₀) ⁹	Annual Arithmetic Mean	20 µg/m ³	Gravimetric or Beta Attenuation	-	-	-
Fine Particulate Matter (PM _{2.5}) ⁹	24 Hour	-	-	35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
Fine Particulate Matter (PM _{2.5}) ⁹	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	9.0 µg/m ³	15.0 µg/m ³	Inertial Separation and Gravimetric Analysis
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m ³)	-	Non-Dispersive Infrared Photometry (NDIR)
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m ³)	-	Non-Dispersive Infrared Photometry (NDIR)
Carbon Monoxide (CO)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	-	-	-
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m ³)	-	Gas Phase Chemiluminescence
Nitrogen Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)	Gas Phase Chemiluminescence	53 ppb (100 µg/m ³)	Same as Primary Standard	Gas Phase Chemiluminescence
Sulfur Dioxide (SO ₂) ¹¹	1 Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosanine Method)
Sulfur Dioxide (SO ₂) ¹¹	3 Hour	-	-	-	0.5 ppm (1300 µg/m ³)	Ultraviolet Fluorescence; Spectrophotometry (Pararosanine Method)
Sulfur Dioxide (SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m ³)	Ultraviolet Fluorescence	0.14 ppm (for certain areas) ¹¹	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosanine Method)
Sulfur Dioxide (SO ₂) ¹¹	Annual Arithmetic Mean	-	-	0.030 ppm (for certain areas) ¹¹	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosanine Method)
Lead (Pb) ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	-	-	-
Lead (Pb) ^{12,13}	Calendar Quarter	-	-	1.5 µg/m ³ (for certain areas) ¹²	Same as Primary Standard	High Volume Sampler and Atomic Absorption
Lead (Pb) ^{12,13}	Rolling 3-Month Average	-	-	0.15 µg/m ³	Same as Primary Standard	High Volume Sampler and Atomic Absorption
Visibility Reducing Particles ¹⁴	8 Hour	See footnote ¹⁴	Beta Attenuation and Transmittance through Filter Tape	-	-	-
Sulfates	24 Hour	25 µg/m ³	Ion Chromatography	-	-	-
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence	-	-	-
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography	-	-	-

Notes:

¹ California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM₁₀, PM_{2.5}, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

² Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

³ Methods specified by the CARB or any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

⁴ National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM_{2.5}, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the USEPA for further clarification and current national policies.

⁵ Primary NAAQS: The levels of air quality necessary, with an adequate margin of safety to protect public health.

⁶ Secondary NAAQS: The levels of air quality necessary to protect public welfare from any known or anticipated adverse effects of a pollutant.

⁷ Reference method as described by the USEPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the USEPA.

⁸ On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

Table 2-1. Summary of NAAQS and CAAQS
El Dorado Hills Costco Project
El Dorado Hills, California

Notes (Continued):

⁹ On February 7, 2024, the national annual PM_{2.5} primary standard was lowered from 12.0 µg/m³ to 9.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

¹⁰ To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

¹¹ On June 2, 2010, a new 1-hour national SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (0.14 ppm 24-hour standard and 0.030 ppm annual standard) remain in effect until one year after an area is designated for the 2010 standard, except in areas designated nonattainment for the 1971 standards, where the 1971 standards remains in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of ppb. California standards are in units of ppm. To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

¹² CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

¹³ The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except in areas designated nonattainment for the 1978 standard, where the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

¹⁴ 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.

Abbreviations:

- µg/m³ - micrograms per cubic meter
- CAAQS - California Ambient Air Quality Standards
- CARB - California Air Resources Board
- °C - degrees Celsius
- mg/m³ - milligrams per cubic meter
- NAAQS - National Ambient Air Quality Standards
- PM₁₀ - particulate matter less than 10 microns in diameter
- PM_{2.5} - particulate matter less than 2.5 microns in diameter
- ppm - parts per million
- USEPA - United States Environmental Protection Agency

Table 2-2. El Dorado County NAAQS and CAAQS Attainment Status

El Dorado Hills Costco Project

El Dorado Hills, California

Pollutant	Averaging Period	El Dorado County Attainment Status for CAAQS ^{1,2}	El Dorado County Attainment Status for Primary NAAQS ^{1,3,4}
Ozone (O ₃)	1 hour	Nonattainment	-
Ozone (O ₃)	8 hour	Nonattainment	Nonattainment (Serious)
Respirable Particulate Matter (PM ₁₀)	24 hour	Nonattainment	Unclassified/Attainment
Respirable Particulate Matter (PM ₁₀)	Annual Arithmetic Mean	Nonattainment	-
Fine Particulate Matter (PM _{2.5})	24 hour	-	Nonattainment
Fine Particulate Matter (PM _{2.5})	Annual Arithmetic Mean ²	Unclassified	Unclassified/Attainment
Carbon Monoxide (CO)	1 hour	Unclassified	Unclassified/Attainment
Carbon Monoxide (CO)	8 hour	Unclassified	Unclassified/Attainment
Nitrogen Dioxide (NO ₂)	1 hour	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO ₂)	Annual Arithmetic Mean	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO ₂)	1 hour	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO ₂)	24 hour	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO ₂)	Annual Arithmetic Mean	-	Unclassified/Attainment
Lead (Pb)	30 day average	Attainment	-
Lead (Pb)	Calendar Quarter	-	Unclassified/Attainment
Lead (Pb)	Rolling 3-Month Average	-	Unclassified/Attainment
Visibility Reducing Particles	8 hour (10:00 to 18:00 PST)	Unclassified	-
Sulfates	24 hour	Attainment	-
Hydrogen Sulfide (H ₂ S)	1 hour	Unclassified	-
Vinyl Chloride	24 hour	Unclassified	-

Notes:¹ Attainment status for El Dorado County for the California Standard obtained from the CARB website and U.S. EPA Greenbook.² See California Code of Regulations Title 17 Sections 60200-60210.³ See 40 Code of Federal Regulations Part 81.⁴ The area is unclassified/in attainment of the 12 µg/m³ standard that was in effect prior to the more stringent 9 µg/m³ standard. The California Air Resources Board (CARB) submitted initial recommendations for area designations in February 2025, with final area designations expected to be issued by the U.S. EPA in February 2026.**Abbreviations:**µg/m³ - micrograms per cubic meter

CAAQS - California Ambient Air Quality Standards

CARB - California Air Resources Board

NAAQS - National Ambient Air Quality Standards

PST - Pacific Standard Time

U.S. EPA - United States Environmental Protection Agency

References:

CARB. Maps of State and Federal Area Designations. Available at:

<https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations>. Accessed: October 2025.U.S. EPA. Green Book. Available at: <https://www.epa.gov/green-book>. Accessed: October 2025.

Table 2-3. Local Ambient Air Quality Data for El Dorado County

El Dorado Hills Costco Project

El Dorado Hills, California

Pollutant ^{1,2}	Averaging Time	Monitoring Station ³	2021	2022	2023	Most Stringent Ambient Air Quality Standard ⁴
Ozone	1 hour	Folsom-Natoma Street	0.108 ppm	0.085 ppm	0.088 ppm	0.09 ppm (CAAQS)
Ozone	8 hours	Folsom-Natoma Street	0.096 ppm	0.074 ppm	0.073 ppm	0.070 ppm (CAAQS/NAAQS)
PM ₁₀	24 hours	Roseville-N Sunrise Ave	150.7 µg/m ³	78.0 µg/m ³	47.9 µg/m ³	50 µg/m ³ (CAAQS)
PM ₁₀	Annual	Roseville-N Sunrise Ave	21.1 µg/m ³	17.8 µg/m ³	16.0 µg/m ³	20 µg/m ³ (CAAQS)
PM _{2.5}	24 hours	Folsom-Natoma Street	265.7 µg/m ³	73.0 µg/m ³	32.5 µg/m ³	35 µg/m ³ (NAAQS)
PM _{2.5}	Annual	Folsom-Natoma Street	10.3 µg/m ³	6.3 µg/m ³	6.6 µg/m ³	9 µg/m ³ (NAAQS)
SO ₂	1 hour	Sacramento-Del Paso Manor	2.2 ppb	2.8 ppb	2.3 ppb	75 ppb (NAAQS)
SO ₂	24 hours	Sacramento-Del Paso Manor	1 ppb	0.6 ppb	1.1 ppb	40 ppb (CAAQS)
NO ₂	1 hour	Folsom-Natoma Street	14 ppb	23 ppb	21 ppb	100 ppb (NAAQS)
NO ₂	Annual	Folsom-Natoma Street	1.29 * ppb	2.64 * ppb	2.34 * ppb	30 ppb (CAAQS)
CO	1 hour	Sacramento-Bercut Drive	2.2 ppm	2 ppm	1.9 ppm	20 ppm (CAAQS)
CO	8 hours	Sacramento-Bercut Drive	1.3 ppm	1.6 ppm	1.3 ppm	9 ppm (CAAQS/NAAQS)

Notes:

¹ Ozone and PM₁₀ data and Most Stringent Ambient Air Quality Standards obtained from CARB iADAM: Air Quality Data Statistics. Available at: <https://www.arb.ca.gov/adam/select8/sc8start.php>. Accessed: October 2025.

² SO₂, NO₂, and CO data and Most Stringent Ambient Air Quality Standards obtained from EPA AirData. Exceptional events data is excluded. Available at: <https://www.epa.gov/outdoor-air-quality-data/monitor-values-report>. Accessed: October 2025.

³ Location of monitoring stations available on the CARB air monitoring webpage map of air monitoring sites in operation. Available at: <https://ww2.arb.ca.gov/applications/air-monitoring-sites-interactive-map>. Accessed: October 2025.

⁴ Most Stringent Ambient Air Quality Standard obtained from Table 2-1.

* indicates the mean does not satisfy minimum data completeness criteria.

Abbreviations:

µg/m³ - micrograms per cubic meter

CAAQS - California Ambient Air Quality Standards

CARB - California Air Resources Board

CO - carbon monoxide

EPA - Environmental Protection Agency

NAAQS - National Ambient Air Quality Standards

NO₂ - nitrogen dioxide

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ppb - parts per billion

ppm - parts per million

SO₂ - sulfur dioxide

Table 2-4. Frequency of Air Quality Standard Violations

El Dorado Hills Costco Project

El Dorado Hills, California

Year	Number of Days Exceeding National 24-Hour PM₁₀ Standard ^{1,2}	Number of Days Exceeding State 24-Hour PM₁₀ Standard ^{1,2}	Number of Days Exceeding National 24-Hour PM_{2.5} Standard ^{1,2}	Number of Days Exceeding State 1-Hour O₃ Standard ^{1,2}	Number of Days Exceeding State 8-Hour O₃ Standard ^{1,2}	Number of Days Exceeding National 8-Hour O₃ Standard ^{1,2}
2021	1.1	11	10	5	30	29
2022	0	4	2	0	4	3
2023	0	0	0	0	6	5

Notes:

¹ PM₁₀ exceedances were referenced for the Roseville-N Sunrise Blvd monitoring station. PM_{2.5} and O₃ exceedances were referenced for the Folsom-Natoma Street monitoring station.

² Ozone and PM₁₀ data obtained from CARB iADAM: Air Quality Data Statistics. Daily exceedances for particulate matter are estimated days because PM₁₀ and PM_{2.5} are not monitored daily. Available at: <https://arb.ca.gov/adam/select8/sc8start.php>. Accessed: October 2025.

Abbreviations:

CARB - California Air Resources Board

O₃ - ozonePM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

Table 3-1. EDCAQMD Air Quality Significance Thresholds

El Dorado Hills Costco Project

El Dorado Hills, California

Pollutant	Daily Emission Thresholds ¹ (lb/day)
ROG	82
NOx	82
Category	Significance Criteria ¹
CO	Will cause or contribute to a violation of an applicable AAQS
PM ₁₀	Will cause or contribute to a violation of an applicable AAQS
SO ₂	Will cause or contribute to a violation of an applicable AAQS
NO ₂	Will cause or contribute to a violation of an applicable AAQS
Sulfates	Will cause or contribute to a violation of an applicable AAQS
Lead	Will cause or contribute to a violation of an applicable AAQS
H ₂ S	Will cause or contribute to a violation of an applicable AAQS
Visibility Reducing Particles	Will cause or contribute significantly to a violation of the state visibility standard, which is 10 miles
Toxic Air Contaminants	Lifetime probability of contracting cancer is greater than one in one million (ten in one million if T-BACT is applied); or Ground-level concentration of non-carcinogenic toxic air contaminants would result in a Hazard Index of greater than 1
Odor	Will not cause detriment, nuisance, or annoyance to any considerable number of persons or to the public

Notes:

¹ El Dorado County APCD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

AAQS - ambient air quality standard

APCD - Air Pollution Control District

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

H₂S - hydrogen sulfide

lb - pound

NO₂ - nitrogen dioxide

NOx - nitrogen oxides

PM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gas

SO₂ - sulfur dioxide

T-BACT - Best Available Control Technology for Toxics

Table 4-1. Construction Schedule - Proposed Project

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name ¹	CalEEMod Phase Type ¹	Start Date ¹	End Date ¹	Phase Duration ² (days)
Site Preparation	Site Preparation	7/1/2026	8/6/2026	37
Grading	Grading	8/7/2026	1/27/2027	174
Building Construction	Building Construction	8/7/2026	5/17/2027	284
Paving	Paving	1/28/2027	4/16/2027	79
Architectural Coating	Architectural Coating	3/17/2027	5/17/2027	62

Notes:

¹ Construction phases and duration are based on Project-specific information. Note, there are two scenarios for project construction which differ in the material movement amounts in the grading phase. However, the construction schedule for both scenarios is expected to be the same.

² The construction work week was assumed to be 7 days per week.

Abbreviations:

CalEEMod - California Emissions Estimator Model

Table 4-2. Construction Schedule - Site Access and Roadway Improvements

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name ¹	CalEEMod Phase Type ¹	Start Date ¹	End Date ¹	Phase Duration ² (days)
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26
Linear, Grading & Excavation	Linear, Grading & Excavation	7/27/2026	11/8/2026	105
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	2/8/2027	92
Linear, Paving	Linear, Paving	2/9/2027	3/19/2027	39

Notes:

¹ Construction phases and duration are based on Project-specific information.

² The construction work week was assumed to be 7 days per week.

Abbreviations:

CalEEMod - California Emissions Estimator Model

Table 4-3. Construction Equipment Assumptions - Project

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Offroad Equipment Type ¹	Number of Equipment ¹	Usage Hours ¹ (hours/day)	Equipment Horsepower ¹ (hp)	Equipment Load Factor ¹	Fuel Type ¹	Engine Tier ¹
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	Diesel	Average
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37	Diesel	Average
Grading	Excavators	2	8	36	0.38	Diesel	Average
Grading	Graders	1	8	148	0.41	Diesel	Average
Grading	Rubber Tired Dozers	1	8	367	0.40	Diesel	Average
Grading	Scrapers	2	8	423	0.48	Diesel	Average
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37	Diesel	Average
Building Construction	Cranes	1	7	367	0.29	Diesel	Average
Building Construction	Forklifts	3	8	82	0.20	Diesel	Average
Building Construction	Generator Sets	1	8	14	0.74	Diesel	Average
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37	Diesel	Average
Building Construction	Welders	1	8	46	0.45	Diesel	Average
Paving	Pavers	2	8	81	0.42	Diesel	Average
Paving	Paving Equipment	2	8	89	0.36	Diesel	Average
Paving	Rollers	2	8	36	0.38	Diesel	Average
Architectural Coating	Air Compressors	1	6	37	0.48	Diesel	Average

Notes:

¹ Based on CalEEMod default values. Note, there are two scenarios for project construction which differ in the material movement amounts in the grading phase. However, the construction equipment activity for both scenarios is expected to be the same.

Abbreviations:

CalEEMod - California Emissions Estimator Model

hp - horsepower

Table 4-4. Construction Equipment Assumptions - Site Access and Roadway Improvements

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Offroad Equipment Type ¹	Number of Equipment ¹	Usage Hours ² (hours/day)	Equipment Horsepower ² (hp)	Equipment Load Factor ²	Fuel Type ²	Engine Tier ²
Linear, Grubbing & Land Clearing	Crawler Tractors	1	8	87	0.43	Diesel	Average
Linear, Grubbing & Land Clearing	Excavators	2	8	36	0.38	Diesel	Average
Linear, Grubbing & Land Clearing	Signal Boards	1	8	6	0.82	Electric	Average
Linear, Grading & Excavation	Crawler Tractors	1	8	87	0.43	Diesel	Average
Linear, Grading & Excavation	Rollers	2	8	36	0.38	Diesel	Average
Linear, Grading & Excavation	Signal Boards	1	8	6	0.82	Electric	Average
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	1	8	37	0.48	Diesel	Average
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	1	8	8	0.43	Diesel	Average
Linear, Drainage, Utilities, & Sub-Grade	Pumps	1	8	11	0.74	Diesel	Average
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	1	8	96	0.40	Diesel	Average
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	1	8	423	0.48	Diesel	Average
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	1	8	6	0.82	Electric	Average
Linear, Paving	Pavers	1	8	81	0.42	Diesel	Average
Linear, Paving	Paving Equipment	1	8	89	0.36	Diesel	Average
Linear, Paving	Signal Boards	1	8	6	0.82	Electric	Average

Notes:

¹ Construction of Site Access and Roadway Improvements is expected to occur at the same time as the Project construction. Additional equipment needed in each subphase that are not already included in the Project construction are presented in this table.

² Based on CalEEMod default values.

Abbreviations:

CalEEMod - California Emissions Estimator Model

hp - horsepower

Table 4-5. Construction Trip Assumptions - Project Construction Scenario 1

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Worker Trips per Day ^{1,2}	Vendor Trips per Day ^{1,2}	Hauling Trips per Day ^{1,3}	Concrete Truck Trips per Day ^{1,4}
Site Preparation	18	0	0	0
Grading	20	0	39	0
Building Construction	96	44	0	104
Paving	15	0	0	0
Architectural Coating	19	0	0	0

Notes:

¹ Trips are presented as one-way trips per day.

² Worker and vendor trips are based on CalEEMod defaults. The one-way trip lengths for worker and vendor trips is assumed the CalEEMod default values of 14.3 and 8.8 miles, respectively.

³ Hauling trips reflect CalEEMod defaults based on Project-specific estimates of material movement shown in Table 4-8. The one-way trip length for hauling trips is assumed to be the CalEEMod default value of 20 miles.

⁴ Project construction includes nighttime concrete pours on eight days during the building construction phase where 52 concrete trucks would visit the site per day (104 one-way trips per day). This 8 day activity is expected to occur in December 2026. For purposes of this analysis, these concrete trucks are modeled as heavy-heavy duty vendor truck trips in CalEEMod with a CalEEMod default one-way trip length of 8.8 miles.

Abbreviations:

CalEEMod - California Emissions Estimator Model

Table 4-6. Construction Trip Assumptions - Project Construction Scenario 2

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Worker Trips per Day ^{1,2}	Vendor Trips per Day ^{1,2}	Hauling Trips per Day ^{1,3}	Concrete Truck Trips per Day ^{1,4}
Site Preparation	18	0	0	0
Grading	20	0	115	0
Building Construction	96	44	0	104
Paving	15	0	0	0
Architectural Coating	19	0	0	0

Notes:

¹ Trips are presented as one-way trips per day.

² Worker and vendor trips are based on CalEEMod defaults. The one-way trip lengths for worker and vendor trips is assumed the CalEEMod default values of 14.3 and 8.8 miles, respectively.

³ Hauling trips reflect CalEEMod defaults based on Project-specific estimates of material movement shown in Table 4-9. The one-way trip length for hauling trips is assumed to be the CalEEMod default value of 20 miles.

⁴ Project construction includes nighttime concrete pours on eight days during the building construction phase where 52 concrete trucks would visit the site per day (104 one-way trips per day). This 8 day activity is expected to occur in December 2026. For purposes of this analysis, these concrete trucks are modeled as heavy-heavy duty vendor truck trips in CalEEMod with a CalEEMod default one-way trip length of 8.8 miles.

Abbreviations:

CalEEMod - California Emissions Estimator Model

Table 4-7. Construction Trip Assumptions - Site Access and Roadway Improvements

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Worker Trips per Day ^{1,2}	Vendor Trips per Day ^{1,2}	Hauling Trips per Day ^{1,3}
Linear, Grubbing & Land Clearing	10	0	12
Linear, Grading & Excavation	10	1	0
Linear, Drainage, Utilities, & Sub-Grade	15	0	0
Linear, Paving	8	0	0

Notes:

¹ Trips are presented as one-way trips per day.

² Worker and vendor trips are based on CalEEMod defaults. The one-way trip lengths for worker and vendor trips is assumed the CalEEMod default values of 14.3 and 8.8 miles respectively.

³ Hauling trips reflect CalEEMod defaults based on Project-specific estimates of material and construction debris movement shown in Table 4-10 and 4-11. The one-way trip length for hauling trips is assumed to be the CalEEMod default value of 20 miles.

Abbreviations:

CalEEMod - California Emissions Estimator Model

Table 4-8. Construction Material Movement - Project Construction Scenario 1

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Material Imported ¹ (yd ³)	Material Exported ¹ (yd ³)
Grading	54,000	0

Notes:

¹ Soil import and export quantities based on project-specific data.

Abbreviations:

yd³ - cubic yard

Table 4-9. Construction Material Movement - Project Construction Scenario 2

El Dorado Hills Costco Project
El Dorado Hills, California

Phase Name	Material Imported ¹ (yd ³)	Material Exported ¹ (yd ³)
Grading	107,000	53,000

Notes:

¹ Soil import and export quantities based on project-specific data.

Abbreviations:

yd³ - cubic yard

Table 4-10. Construction Material Movement - Site Access and Roadway Improvements

El Dorado Hills Costco Project
El Dorado Hills, California

Construction Phase Name	Material Imported ¹ (yd ³)	Material Exported ¹ (yd ³)
Linear, Grading & Excavation	70	0

Notes:

¹ Soil import and export quantities based on project-specific data.

Abbreviations:

yd³ - cubic yard

Table 4-11. Construction Demolition Assumptions - Site Access and Roadway Improvements
 El Dorado Hills Costco Project
 El Dorado Hills, California

Construction Phase Name	Size Metric	Unit Amount ¹
Linear, Grubbing & Land Clearing	tons of debris	1,284

Notes:

¹ Demolition debris quantity based on project-specific data.

Table 4-12. Average Daily Unmitigated Criteria Air Pollutant Emission for Project Construction

El Dorado Hills Costco Project

El Dorado Hills, California

Project Construction Scenario	Construction Time Period	ROG Emissions ^{1,2} (lbs/day)	NO _x Emissions ¹ (lbs/day)	CO Emissions ¹ (lbs/day)	SO _x Emissions ^{1,3} (lbs/day)	PM ₁₀ Emissions ¹ (lbs/day)	PM _{2.5} Emissions ¹ (lbs/day)
Scenario 1	First Quarter	4.7	43	46	0.1	8.3	3.1
Scenario 1	Second Quarter	5.6	53	55	0.1	12	4.1
Scenario 1	Third Quarter	11	31	40	0.1	7.2	2.2
Scenario 1	Fourth Quarter	42	15	24	0.0	4.9	1.1
EDCAQMD Mass Daily Significance Thresholds⁴	-	82	82	-	-	-	-
Do Emissions from Scenario 1 Exceed Threshold for any quarter of Construction?	-	NO	NO	-	-	-	-
Scenario 2	First Quarter	4.8	49	47	0.1	10	3.4
Scenario 2	Second Quarter	5.8	64	57	0.2	15	4.8
Scenario 2	Third Quarter	11	34	40	0.1	8.1	2.4
Scenario 2	Fourth Quarter	42	15	24	0.0	4.9	1.1
EDCAQMD Mass Daily Significance Thresholds⁴	-	82	82	-	-	-	-
Do Emissions from Scenario 2 Exceed Threshold for any quarter of Construction?	-	NO	NO	-	-	-	-

Notes:

¹ Obtained from **Table A-3** and **Table A-4**. Average daily emissions per quarter calculated as the total construction emissions, which include construction of the fuel station, warehouse, parking lot, and site access and roadway improvements, divided by the number of construction days in each quarter. Project construction emissions assume watering control consistent with EDCAQMD Rule 223-1.

² For purposes of this analysis VOC emissions are assumed to be equal to ROG.

³ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁴ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

lb - pound

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxideSO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table 4-13. Reactive Organic Gas Emission Factor for Consumer Product Usage in El Dorado County for Calendar Year 2027

El Dorado Hills Costco Project
El Dorado Hills, California

Countywide ROG Inventory for Consumer Product Usage ¹ (tons/day)	County Population ²	Total Building Square Footage in the County ³ (sqft)	ROG Emission Factors for Consumer Product Usage ⁴ (lb/sqft/day)
1.331	187,809	219,720,388	1.21E-05

Notes:

¹ ROG consumer products inventory for El Dorado County in calendar year 2027 was obtained from the California Emissions Projection Analysis Model, CEPAM2019v1.04. Available at: <https://ww2.arb.ca.gov/applications/cepam2019v1-04-standard-emission-tool>. Accessed: October 2025.

² Population estimates for El Dorado County in 2020 and 2027 were obtained from the State of California Department of Finance website. Available at: <https://dof.ca.gov/forecasting/demographics/projections/>. Accessed: October 2025.

³ Total building square footage in 2027 was estimated as the product of the countywide building square footage per person in 2020 multiplied by the population projection for El Dorado County in calendar Year 2027.

⁴ The consumer product ROG emission factor for consumer product usage is calculated as the ratio of the countywide

⁵ Total building square footage in El Dorado County for 2020 was obtained from FEMA HAZUS-MH software (version 7.0). Available at: <https://msc.fema.gov/portal/resources/hazus>. Accessed: October 2025.

Constants:

El Dorado County Population ² in Calendar Year 2020:	191,522
Total Building Square Footage ⁵ in El Dorado County in 2020:	224,064,279

Conversion Factors:

2000 lbs/ton

Abbreviations:

lb - pound

ROG - reactive organic compounds

sqft - square foot

Table 4-14. Operational Energy Assumptions

El Dorado Hills Costco Project
El Dorado Hills, California

CalEEMod Land Use Subtype	Total CalEEMod Default Electricity Usage (kWh/yr)	Total CalEEMod Default NG Usage (kBtu/yr)	CalEEMod Default NG Usage for Space Heating ¹ (kBtu/yr)	CalEEMod Default NG Usage for Water Heating ¹ (kBtu/yr)	CalEEMod Default NG Usage for Cooking ¹ (kBtu/yr)	CalEEMod Default NG Usage for Other Equipment ¹ (kBtu/yr)	New Electricity Usage from Electrification of NG Space Heating ² (kWh/yr)	New Electricity Usage from Electrification of NG Water Heating ² (kWh/yr)	New Electricity Usage from Electrification of NG Cooking ² (kWh/yr)	New Electricity Usage from Electrification of Other NG Equipment ² (kWh/yr)	Total New Electricity Usage from Electrification of NG Equipment ² (kWh/yr)	Electricity Usage for Project Operation ³ (kWh/yr)	Natural Gas Usage for Project Operation ³ (kBtu/yr)
Gasoline/Service Station	23,335	93,655	29,267	8,105	225	56,058	6,948	1,987	33	16,429	25,397	48,732	0
Discount Club	1,437,492	1,423,224	1,099,764	258,768	16,173	48,519	0	0	0	0	0	1,437,492	1,423,224
Enclosed Parking with Elevator	369,143	0	0	0	0	0	0	0	0	0	0	369,143	0
Parking Lot	327,400	0	0	0	0	0	0	0	0	0	0	327,400	0

Notes:

- ¹ Total CalEEMod default natural gas usages broken down into end use distribution based on Appendix C in the CalEEMod handbook, where the "Other Equipment" category includes space cooling, refrigeration, and miscellaneous uses. Available at: https://www.caleemod.com/documents/handbook/appendices/appendix_c.pdf. Accessed: October 2025.
- ² The proposed Project will not have any natural gas usage at the gasoline dispensing facility. Hence, the CalEEMod default natural gas usage for the gasoline dispensing facility were converted into equivalent electricity usages by multiplying by the ratio of efficiencies between natural gas and equivalent electric appliances for 2022. Typical efficiency values for space heating (100% for electric and 81% for natural gas), water heating (98% for electric and 82% for natural gas), and cooking (71% for electric and 35% for natural gas) are available at: <https://www.eia.gov/analysis/studies/buildings/equipcosts/pdf/appendix-a.pdf>. Accessed: October 2025. The ratio of natural gas and electric efficiencies for the "Other Equipment" category was conservatively assumed to be 1:1.
- ³ The proposed Project operational electricity and natural gas usage is assumed to be equal to CalEEMod defaults for all CalEEMod land use subtypes except the gasoline/service station. For this land use the operational natural gas usage is assumed to be zero based on Project-specific information. The electricity usage is higher than the CalEEMod defaults to account for electrification of CalEEMod default natural gas usage.

Conversion Factors:

3,412.14 Btu/kWh

Abbreviations:

- Btu - British thermal units
CalEEMod - California Emissions Estimator Model
kBtu - thousand British thermal units
kWh - kilowatt-hour
NG - natural gas
yr - year

Table 4-15. Gasoline Dispensing Facility Operational VOC Emissions

El Dorado Hills Costco Project

El Dorado Hills, California

TOG Emission Factor for Loading ¹ (lb/1,000 gal)	TOG Emission Factor for Breathing ¹ (lb/1,000 gal)	TOG Emission Factor for Refueling ^{1,2} (lb/1,000 gal)	TOG Emission Factor for Hose Permeation ¹ (lb/1,000 gal)	TOG Emission Factor for Spillage ³ (lb/1,000 gal)	TOG Emission Factor ¹ (lb/1,000 gal)	Throughput (Mgal/ year)	Total VOC Emissions from GDF ⁴ (lb/day)
0.15	0.024	0.073	0.0090	0.05	0.31	23	19.3

Notes:

¹ TOG emission factors for GDFs with EVR systems was obtained from Table 7 of the 2022 CAPCOA Gasoline Service Station Industrywide Risk Assessment Technical Guidance. Available at:

https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf.

Accessed: October 2025.

² TOG emission factor for refueling estimated by assuming that 86.88% of the vehicles to which gasoline is dispensed at the GDF are ORVR vehicles and remaining 13.22% are non-ORVR vehicles, based on data provided by El Dorado County APCD. This rate was developed using the 2022 total vehicle population required to have ORVR, accounting for vehicle model year and weight class for Sacramento County.

³ TOG emission factor for GDF spillage was obtained from Table 2-1 of CARB CP-201, which is the most recent Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Underground Storage Tanks.

⁴ For purposes of this analysis, total VOC emissions are assumed to be equal to TOG emissions. Total VOC emissions are estimated as the sum of the GDF TOG emissions associated with loading, breathing, fueling, hose permeation, and spillage.

Constants:

Fueling EF (Non-ORVR Vehicles, EVR) ¹	0.42 lb/1,000 gal
Fueling EF (ORVR Vehicles, EVR) ¹	0.021 lb/1,000 gal
Percent ORVR Vehicles ²	86.88%

Abbreviations:

APCD - Air Pollution Control District

CAPCOA - California Air Pollution Control Officers Association

CARB - California Air Resources Board

EVR - enhanced vapor recovery

gal - gallons

GDF - gasoline dispensing facility

lb - pounds

Mgal - million gallons

ORVR - onboard refueling vapor recovery

TOG - total organic gases

VOC - volatile organic compounds

Table 4-16. Maximum Daily Criteria Air Pollutant Emissions for Project Operation

El Dorado Hills Costco Project

El Dorado Hills, California

Emission Category ¹	ROG Emissions ² (lbs/day)	NO_x Emissions (lbs/day)	CO Emissions (lbs/day)	SO_x Emissions ³ (lbs/day)	PM₁₀ Emissions (lbs/day)	PM_{2.5} Emissions (lbs/day)
Area ⁴	4.65	0.10	11.6	6.9E-04	0.02	0.02
Energy ⁴	0.02	0.38	0.32	0.0023	0.03	0.03
Mobile ⁵	42	31	168	0.30	37	6.8
Stationary Sources ⁴	0.82	2.29	2.09	0.0039	0.12	0.12
Gasoline Dispensing Facility ⁶	19	-	-	-	-	-
Total Daily Emissions (lb/day)	66	34	182	0.30	37	7.0
EDCAQMD Mass Daily Significance Thresholds ⁷	82	82	NA	NA	NA	NA
Exceeds Threshold?	NO	NO	-	-	-	-

Notes:

¹ Emissions totals may not add up due to rounding. Emissions shown as zero may be non-zero values; however, they are below a meaningful reporting level for this analysis.

² For purposes of this analysis VOC emissions are assumed to be equal to ROG.

³ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁴ Obtained from CalEEMod output file for the proposed Project operation in **Appendix B-1**.

⁵ Obtained from **Table B-14** in **Appendix B**.

⁶ Obtained from **Table 4-15**.

⁷ EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODEL

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

lb - pound

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table 5-1. Mobile Source Air Toxics Speciation Profiles

El Dorado Hills Costco Project

El Dorado Hills, California

Non-Criteria Air Pollutant	Speciation Profile	Speciated MSAT/COPC
ROG running and idling exhaust emissions from gasoline-fueled vehicles	Maximum of CARB Profiles OG2303 and OG2304 ¹	1,3-Butadiene, Acetaldehyde, Acrolein, Benzene, Ethyl Benzene, Formaldehyde, Naphthalene
ROG running and idling exhaust emissions from gasoline-fueled vehicles	USEPA MOVES Gasoline VOC ² Profile ³	POM
ROG starting exhaust emissions from gasoline-fueled vehicles	Maximum of CARB Profiles OG2301 and OG2302 ⁴	1,3-Butadiene, Acetaldehyde, Acrolein, Benzene, Ethyl Benzene, Formaldehyde, Naphthalene
ROG starting exhaust emissions from gasoline-fueled vehicles	USEPA MOVES Gasoline VOC ² Profile ³	POM
ROG evaporative emissions from gasoline-fueled vehicles	CARB Profile OG2315 ⁵	Benzene, Ethyl Benzene
PM _{2.5} running and starting exhaust emissions from gasoline-fueled vehicles	USEPA MOVES Gasoline PM _{2.5} Profile ³	Naphthalene, POM
DPM ⁶	N/A	DPM

Notes:

¹ CARB. 2013. Organic Gas Speciation Profiles for Catalyzed Gasoline-Powered Vehicle Stabilized Running Exhaust - E6 Fuel (OG2303 & OG2304). December. Available at: https://ww3.arb.ca.gov/ei/speciate/profilereference/cate6running_oq2303&04.pdf. Accessed: October 2025.

² Per EMFAC2021 User's Guide, The EMFAC2021 ROG class is the same as EPA's VOC definition. Available at: https://ww2.arb.ca.gov/sites/default/files/2021-06/emfac202x_users_guide_01112021_final_ada.pdf. Accessed: October 2025.

³ USEPA. 2020. Air Toxic Emissions from On-Road Vehicles in MOVES3. November. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1010TJM.pdf>. Accessed: October 2025.

⁴ CARB. 2013. Organic Gas Speciation Profiles for Catalyzed Gasoline-Powered Vehicle Start Exhaust - E6 Fuel (OG2301 & OG2302). October. Available at: https://ww3.arb.ca.gov/ei/speciate/profilereference/cate6start_oq2301&02.pdf. Accessed: October 2025.

⁵ CARB. 2015. Organic Gas Speciation Profile for Gasoline-Powered Vehicles Hot Soak Evaporations - E10 Summer Fuel (OG2315). January. Available at: <https://ww3.arb.ca.gov/ei/speciate/profilereference/e10shotsoak-oq2315.pdf>. Accessed: October 2025.

⁶ Diesel particulate matter was used as a surrogate for estimating cancer risk and chronic health impacts of diesel vehicle exhaust.

Abbreviations:

CARB - California Air Resources Board

COPC - chemicals of potential concern

EMFAC - Emission FACTors model

MOVES - Motor Vehicle Emissions Stimulator

MSAT - Mobile Source Air Toxic

N/A - not applicable

PM_{2.5} - particulate matter less than 2.5 microns in diameter

POM - polycyclic organic matter

ROG - Reactive Organic Gases

VOC - Volatile Organic Gases

USEPA - United States Environmental Protection Agency

Table 5-2. Construction Health Risk Assessment Options used in HARP Air Dispersion Modeling and Risk Tool

El Dorado Hills Costco Project
El Dorado Hills, California

HARP2 Risk Analyses Screen	HARP2 Option Title	Residential Cancer Risk Run Options	Residential Chronic Risk Run Options	Worker Cancer Risk Run Options	Worker Chronic Risk Run Options	Acute Risk Run Options
Select Risk Scenario ¹	Analysis Type	Cancer Risk	Chronic Risk (Non-cancer)	Cancer Risk	Chronic Risk (Non-cancer)	Acute Risk (Non-cancer)
Select Risk Scenario ¹	Receptor Type	Individual Resident	Individual Resident	Worker	Worker	N/A
Select Risk Scenario ¹	Exposure Duration ³	Split 1: 0.25 Years (Start Age in Third Trimester) Split 2: 0.63 Years (Start Age of 0)	N/A	0.88 Years (Start Age of 16)	N/A	N/A
Select Risk Scenario ²	Intake Rate Percentile	RMP Derived Method	OEHHA Derived Method	OEHHA Derived Method	OEHHA Derived Method	N/A
Select Pathways to Evaluate ²	Tab "Pathways to Evaluate"	Select "User Defined" pathways and choose: Inhalation; Soil Ingestion; Dermal; Mother's Milk; Homegrown Produce; Pig, Chicken, & Egg	Select "User Defined" pathways and choose: Inhalation; Soil Ingestion; Dermal; Mother's Milk; Homegrown Produce; Pig, Chicken, & Egg	Select "Worker Pathways"	Select "Worker Pathways"	Default Inhalation Only Pathway
Select Pathways to Evaluate ²	Tab "Pathways to Evaluate"	Deposition Rate: 0.02 m/s	Deposition Rate: 0.02 m/s	Deposition Rate: 0.02 m/s	Deposition Rate: 0.02 m/s	N/A
Select Pathways to Evaluate ²	Tab "Inh"	FAH option disabled due to proximity of the school to the proposed Project site.	FAH option disabled due to proximity of the school to the proposed Project site.	Check box "Use Adjustment Factors" with worker adjustment factor ⁴ (WAF) = 2.15	Check box "Use Adjustment Factors" with worker adjustment factor ⁴ (WAF) = 2.15	Use Defaults (No Change)
Select Pathways to Evaluate ²	Tab "Soil"	Use Defaults (No Change)	Use Defaults (No Change)	Use Defaults (No Change)	Use Defaults (No Change)	N/A
Select Pathways to Evaluate ²	Tab "Derm"	Select "Mixed" Climate	Select "Mixed" Climate	Select "Mixed" Climate	Select "Mixed" Climate	N/A
Select Pathways to Evaluate ²	Tab "MMilk"	Use Defaults (No Change)	Use Defaults (No Change)	N/A	N/A	N/A
Select Pathways to Evaluate ²	Tab "HG Produce"	Use Defaults (No Change)	Use Defaults (No Change)	N/A	N/A	N/A
Select Pathways to Evaluate ²	Tab "Chicken, & Egg"	Use Defaults (No Change)	Use Defaults (No Change)	N/A	N/A	N/A

Notes:

¹ HARP2 Options related to receptor type and exposure durations were based on OEHHA's Guidance Manual for Preparation of Health Risk Assessments (2015), which is available at: <https://oehha.ca.gov/sites/default/files/media/downloads/crn/2015guidancemanual.pdf>. Accessed: October 2025.

² HARP2 Options related to intake rate percentile, deposition rate and pathways to evaluate are based on the SMAQMD *Health Risk Assessment Modeling Guidelines* dated March 24, 2016.

³ Exposure duration is based on a construction schedule of July 1, 2026 to May 17, 2027, which is equal to 0.877 years.

⁴ Worker adjustment factor is set based on a construction schedule of 7:00 AM to 7:00 PM on weekdays and 8:00 AM to 5:00 PM on weekends.

Abbreviations:

FAH - fraction of time at home

HARP - Hotspots Analysis and Reporting Program

m/s - meter per second

N/A - not applicable

OEHHA - Office of Environmental Health Hazard Assessment

RMP - Risk Management Policy

SMAQMD - Sacramento Metropolitan Air Quality Management District

Table 5-3. Operational Health Risk Assessment Options used in HARP Air Dispersion Modeling and Risk Tool

El Dorado Hills Costco Project
El Dorado Hills, California

HARP2 Risk Analyses Screen	HARP2 Option Title	Residential Cancer Risk Run Options	Residential Chronic Risk Run Options	Worker Cancer Risk Run Options	Worker Chronic Risk Run Options	Acute Risk Run Options
Select Risk Scenario ¹	Analysis Type	Cancer Risk	Chronic Risk (Non-cancer)	Cancer Risk	Chronic Risk (Non-cancer)	Acute Risk (Non-cancer)
Select Risk Scenario ¹	Receptor Type	Individual Resident	Individual Resident	Worker	Worker	N/A
Select Risk Scenario ¹	Exposure Duration ³	29.12 Years, (Start Age of 0.63)	N/A	24.12 Years, (Start Age of 16.88)	N/A	N/A
Select Risk Scenario ²	Intake Rate Percentile	RMP Derived Method	OEHHA Derived Method	OEHHA Derived Method	OEHHA Derived Method	N/A
Select Pathways to Evaluate ²	Tab "Pathways to Evaluate"	Select "User Defined" pathways and choose: Inhalation; Soil Ingestion; Dermal; Mother's Milk; Homegrown Produce; Pig, Chicken, & Egg	Select "User Defined" pathways and choose: Inhalation; Soil Ingestion; Dermal; Mother's Milk; Homegrown Produce; Pig, Chicken, & Egg	Select "Worker Pathways"	Select "Worker Pathways"	Default Inhalation Only Pathway
Select Pathways to Evaluate ²	Tab "Pathways to Evaluate"	Deposition Rate: 0.02 m/s	Deposition Rate: 0.02 m/s	Deposition Rate: 0.02 m/s	Deposition Rate: 0.02 m/s	N/A
Select Pathways to Evaluate ²	Tab "Inh"	FAH option disabled due to proximity of the school to the proposed Project site.	FAH option disabled due to proximity of the school to the proposed Project site.	Check box "Use Adjustment Factors" with worker adjustment factor ⁴ (WAF) = 2.15	Check box "Use Adjustment Factors" with worker adjustment factor ⁴ (WAF) = 2.15	Use Defaults (No Change)
Select Pathways to Evaluate ²	Tab "Soil"	Use Defaults (No Change)	Use Defaults (No Change)	Use Defaults (No Change)	Use Defaults (No Change)	N/A
Select Pathways to Evaluate ²	Tab "Derm"	Select "Mixed" Climate	Select "Mixed" Climate	Select "Mixed" Climate	Select "Mixed" Climate	N/A
Select Pathways to Evaluate ²	Tab "MMilk"	Use Defaults (No Change)	Use Defaults (No Change)	N/A	N/A	N/A
Select Pathways to Evaluate ²	Tab "HG Produce"	Use Defaults (No Change)	Use Defaults (No Change)	N/A	N/A	N/A
Select Pathways to Evaluate ²	Tab "Chicken, & Egg"	Use Defaults (No Change)	Use Defaults (No Change)	N/A	N/A	N/A

Notes:

¹ HARP2 Options related to receptor type and exposure durations were based on OEHHA's Guidance Manual for Preparation of Health Risk Assessments (2015), which is available at: <https://oehha.ca.gov/sites/default/files/media/downloads/crn/2015guidancemanual.pdf>. Accessed: October 2025.

² HARP2 Options related to intake rate percentile, deposition rate and pathways to evaluate are based on the SMAQMD *Health Risk Assessment Modeling Guidelines* dated March 24, 2016.

³ Start age during Project operation corresponds to the completion of Project construction, which is estimated to last 0.877 years.

⁴ Worker adjustment factor is set based on the GDF operating schedule of 5:00 AM to 10:00 PM, 7 days per week.

Abbreviations:

FAH - fraction of time at home

GDF - gasoline dispensing facility

HARP - Hotspots Analysis and Reporting Program

m/s - meter per second

N/A - not applicable

OEHHA - Office of Environmental Health Hazard Assessment

RMP - Risk Management Policy

SMAQMD - Sacramento Metropolitan Air Quality Management District

Table 5-4. Health Risk Assessment Results for Unmitigated Project Construction and Operation

El Dorado Hills Costco Project

El Dorado Hills, California

Receptor Type	Maximum Estimated Cancer Risk ¹ (in a million)	Maximum Estimated Chronic Hazard Index ¹	Maximum Estimated Acute Hazard Index ¹
Residential	11.0	0.05	0.15
Worker	0.13	0.01	0.03
Roadway/Open Space ²	-	-	0.50
Other Sensitive	9.1	0.04	0.13
EDCAQMD Significance Thresholds for Toxic Air Contaminants ³	10	1.0	1.0
Do Health Risk Impacts Exceed Thresholds?	YES	NO	NO

Notes:

¹ The maximum estimated cancer risk, chronic and acute hazard index can occur at different locations for each receptor type. See **Table E-1** in **Appendix E** for further details.

² Cancer risk and chronic hazard index are not assessed for Roadway/Open Space receptors, as long term exposures are not expected at these locations.

³ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at:

<https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>.

Accessed: October 2025.

Abbreviations:

EDCAQMD - El Dorado County Air Quality Management District

Table 6-1. Construction Equipment Assumptions With Mitigation - Project

El Dorado Hills Costco Project
El Dorado Hills, California

Construction Phase Name	Offroad Equipment Type ¹	Number of Equipment ¹	Usage Hours ¹ (hours/day)	Equipment Horsepower ¹ (hp)	Equipment Load Factor ¹	Fuel Type ¹	Engine Tier for Mitigated Project ²	DPF Level for Mitigated Project ²
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	Diesel	Tier 3	Level 3
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37	Diesel	Tier 3	Level 3
Grading	Excavators	2	8	36	0.38	Diesel	Average	N/A
Grading	Graders	1	8	148	0.41	Diesel	Tier 3	Level 3
Grading	Rubber Tired Dozers	1	8	367	0.40	Diesel	Tier 3	Level 3
Grading	Scrapers	2	8	423	0.48	Diesel	Tier 3	Level 3
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37	Diesel	Tier 3	Level 3
Building Construction	Cranes	1	7	367	0.29	Diesel	Tier 3	Level 3
Building Construction	Forklifts	3	8	82	0.20	Diesel	Tier 3	Level 3
Building Construction	Generator Sets	1	8	14	0.74	Diesel	Average	N/A
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37	Diesel	Tier 3	Level 3
Building Construction	Welders	1	8	46	0.45	Diesel	Average	N/A
Paving	Pavers	2	8	81	0.42	Diesel	Tier 3	Level 3
Paving	Paving Equipment	2	8	89	0.36	Diesel	Tier 3	Level 3
Paving	Rollers	2	8	36	0.38	Diesel	Average	N/A
Architectural Coating	Air Compressors	1	6	37	0.48	Diesel	Average	N/A

Notes:

¹ Based on CalEEMod default values. Note, there are two scenarios for project construction which differ in the material movement amounts in the grading phase. However, the construction equipment activity for both scenarios is expected to be the same.

² As noted in **Section 6.1**, construction equipment greater than 50 hp used at the site shall be mitigated to meet USEPA Tier 4 Final emission standards for PM₁₀ and PM_{2.5}. If Tier 4 Final equipment is viable but not available, all construction equipment larger than 50 horsepower used at the site shall meet USEPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices. To be conservative, this analysis assumed that Tier 3 engines with particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices would be used on-site to model the potential mitigated construction emissions if Tier 4 final equipment is not available.

Abbreviations:

- CalEEMod - California Emissions Estimator Model
- CARB - California Air Resources Board
- DPF - Diesel Particulate Filter
- hp - horsepower
- N/A - not applicable
- PM₁₀ - particulate matter less than 10 microns in diameter
- PM_{2.5} - particulate matter less than 2.5 microns in diameter
- USEPA - United States Environmental Protection Agency

Table 6-2. Construction Equipment Assumptions With Mitigation - Site Access and Roadway Improvements

El Dorado Hills Costco Project
El Dorado Hills, California

Construction Phase Name	Offroad Equipment Type ¹	Number of Equipment ¹	Usage Hours ² (hours/day)	Equipment Horsepower ² (hp)	Equipment Load Factor ²	Fuel Type ²	Engine Tier for Mitigated Project ³	DPF Level for Mitigated Project ³
Linear, Grubbing & Land Clearing	Crawler Tractors	1	8	87	0.43	Diesel	Tier 3	Level 3
Linear, Grubbing & Land Clearing	Excavators	2	8	36	0.38	Diesel	Average	N/A
Linear, Grubbing & Land Clearing	Signal Boards	1	8	6	0.82	Electric	Average	N/A
Linear, Grading & Excavation	Crawler Tractors	1	8	87	0.43	Diesel	Tier 3	Level 3
Linear, Grading & Excavation	Rollers	2	8	36	0.38	Diesel	Average	N/A
Linear, Grading & Excavation	Signal Boards	1	8	6	0.82	Electric	Average	N/A
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	1	8	37	0.48	Diesel	Average	N/A
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	1	8	8	0.43	Diesel	Average	N/A
Linear, Drainage, Utilities, & Sub-Grade	Pumps	1	8	11	0.74	Diesel	Average	N/A
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	1	8	96	0.40	Diesel	Tier 3	Level 3
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	1	8	423	0.48	Diesel	Tier 3	Level 3
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	1	8	6	0.82	Electric	Average	N/A
Linear, Paving	Pavers	1	8	81	0.42	Diesel	Tier 3	Level 3
Linear, Paving	Paving Equipment	1	8	89	0.36	Diesel	Tier 3	Level 3
Linear, Paving	Signal Boards	1	8	6	0.82	Electric	Average	N/A

Notes:

¹ Construction of Site Access and Roadway Improvements is expected to occur at the same time as the Project construction. Additional equipment needed in each subphase that are not already included in the Project construction are presented in this table.

² Based on CalEEMod default values.

³ As noted in **Section 6.1**, construction equipment greater than 50 hp used at the site shall be mitigated to meet USEPA Tier 4 Final emission standards for PM₁₀ and PM_{2.5}. If Tier 4 Final equipment is viable but not available, all construction equipment larger than 50 horsepower used at the site shall meet USEPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices. To be conservative, this analysis assumed that Tier 3 engines with particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices would be used on-site to model the potential mitigated construction emissions if Tier 4 final equipment is not available.

Abbreviations:

CalEEMod - California Emissions Estimator Model

CARB - California Air Resources Board

DPF - Diesel Particulate Filter

hp - horsepower

N/A - not applicable

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

USEPA - United States Environmental Protection Agency

Table 6-3. Average Daily Mitigated Criteria Air Pollutant Emission for Project Construction

El Dorado Hills Costco Project

El Dorado Hills, California

Project Construction Scenario	Construction Time Period	ROG Emissions^{1,2} (lbs/day)	NO_x Emissions¹ (lbs/day)	CO Emissions¹ (lbs/day)	SO_x Emissions^{1,3} (lbs/day)	PM₁₀ Emissions¹ (lbs/day)	PM_{2.5} Emissions¹ (lbs/day)
Scenario 1	First Quarter	4.7	43	52	0.1	7.0	1.9
Scenario 1	Second Quarter	3.1	60	68	0.1	11	2.9
Scenario 1	Third Quarter	9.4	38	47	0.1	6.5	1.5
Scenario 1	Fourth Quarter	42	18	27	0.0	4.6	0.8
EDCAQMD Mass Daily Significance Thresholds⁴	-	82	82	-	-	-	-
Do Emissions from Scenario 1 Exceed Threshold for any quarter of Construction?	-	NO	NO	-	-	-	-
Scenario 2	First Quarter	2.3	49	52	0.1	8.9	2.3
Scenario 2	Second Quarter	3.2	71	69	0.2	14	3.5
Scenario 2	Third Quarter	9.4	41	47	0.1	7.4	1.7
Scenario 2	Fourth Quarter	42	18	27	0.0	4.6	0.8
EDCAQMD Mass Daily Significance Thresholds⁴	-	82	82	-	-	-	-
Do Emissions from Scenario 2 Exceed Threshold for any quarter of Construction?	-	NO	NO	-	-	-	-

Notes:

¹ Obtained from **Table A-5** and **Table A-6**. Average daily emissions per quarter calculated as the total construction emissions, which include construction of the fuel station, warehouse, parking lot, and site access and roadway improvements, divided by the number of construction days in each quarter. Project construction emissions assume watering control consistent with EDCAQMD Rule 223-1.

² For purposes of this analysis VOC emissions are assumed to be equal to ROG.

³ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁴ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

lb - pound

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxideSO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table 6-4. Health Risk Assessment Results for Mitigated Project Construction and Operation

El Dorado Hills Costco Project

El Dorado Hills, California

Receptor Type	Maximum Estimated Cancer Risk ¹ (in a million)	Maximum Estimated Chronic Hazard Index ¹	Maximum Estimated Acute Hazard Index ¹
Residential	4.13	0.02	0.15
Worker	0.05	0.003	0.03
Roadway/Open Space ²	-	-	0.50
Other Sensitive	3.06	0.01	0.13
EDCAQMD Significance Thresholds for Toxic Air Contaminants ³	10	1.0	1.0
Do Health Risk Impacts Exceed Thresholds?	NO	NO	NO

Notes:

¹ The maximum estimated cancer risk, chronic and acute hazard index can occur at different locations for each receptor type. See **Table E-2** in **Appendix E** for further details.

² Cancer risk and chronic hazard index are not assessed for Roadway/Open Space receptors, as long term exposures are not expected at these locations.

³ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at:

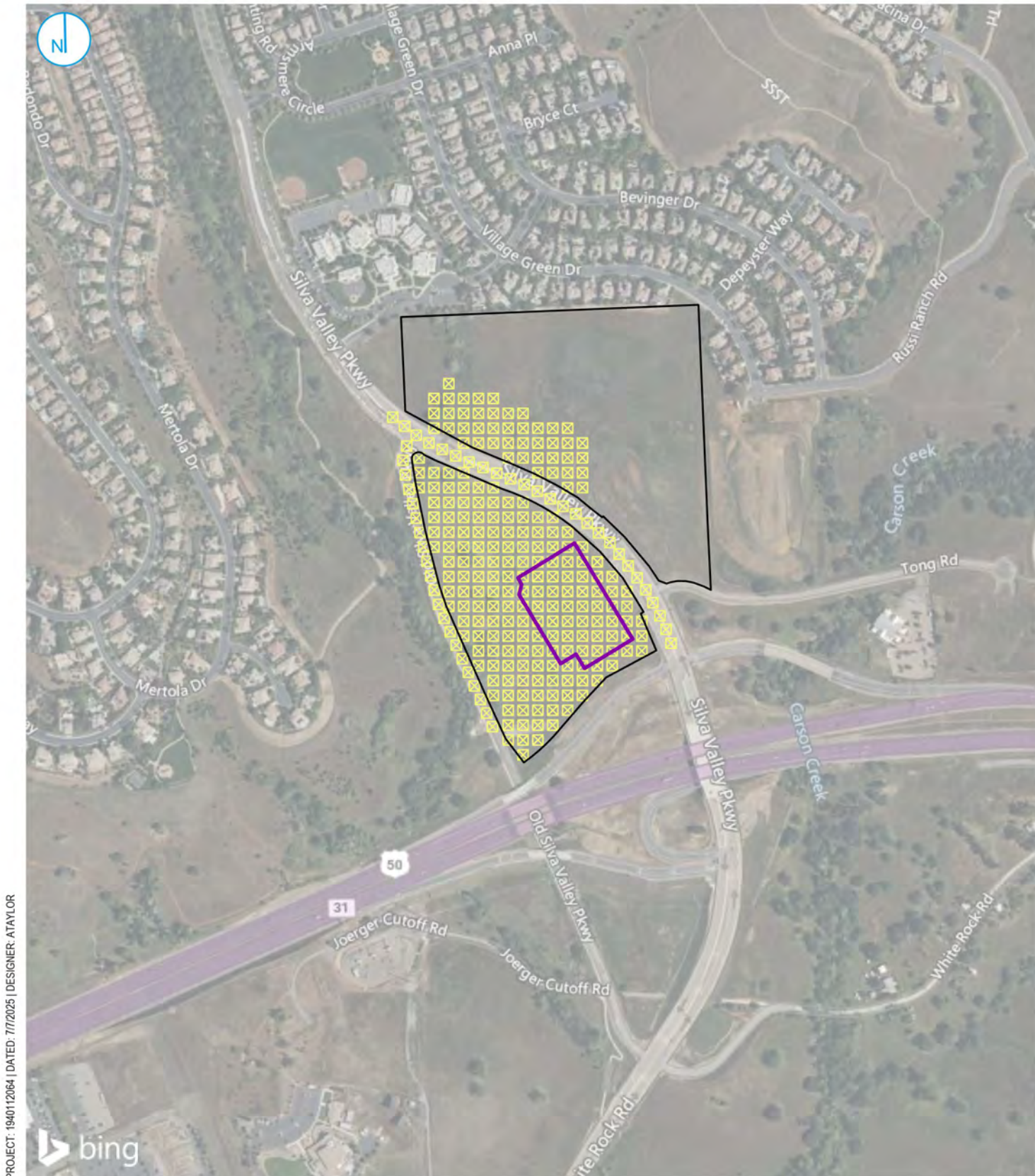
<https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>.

Accessed: October 2025.

Abbreviations:

EDCAQMD - El Dorado County Air Quality Management District

FIGURES



PROJECT: 1940112064 | DATED: 7/7/2025 | DESIGNER: ATAYLOR

- Site Boundary
- Concrete Delivery Truck Idling (CT_IDL)
- Construction Equipment (CONEQ)

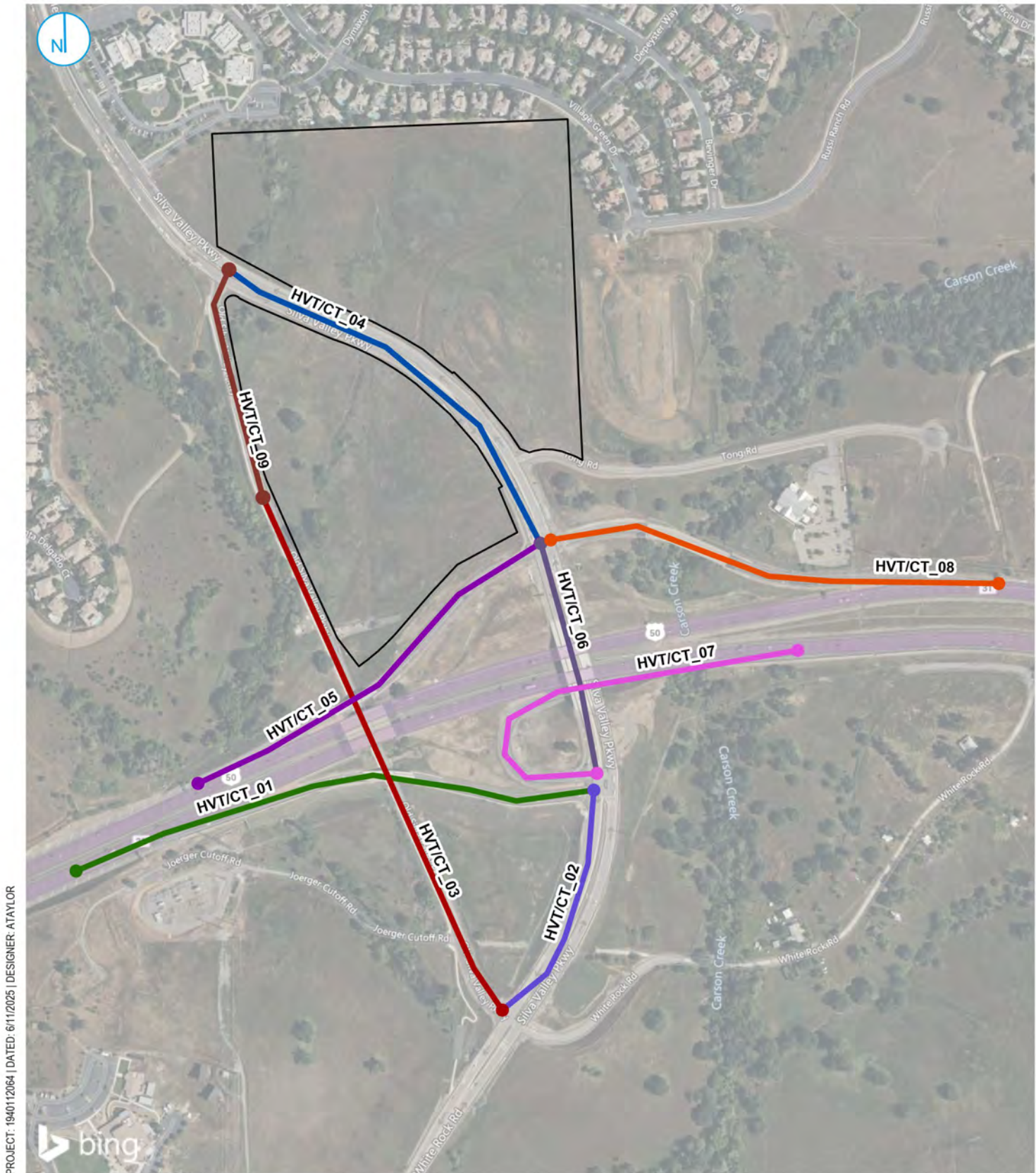
MODELED SOURCE LOCATIONS PROJECT CONSTRUCTION

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California





PROJECT: 1940112064 | DATED: 6/11/2025 | DESIGNER: ATAYLOR

Site Boundary	HVT/CT_05
Hauling/Vendor/Concrete Truck	HVT/CT_06
HVT/CT_01	HVT/CT_07
HVT/CT_02	HVT/CT_08
HVT/CT_03	HVT/CT_09
HVT/CT_04	

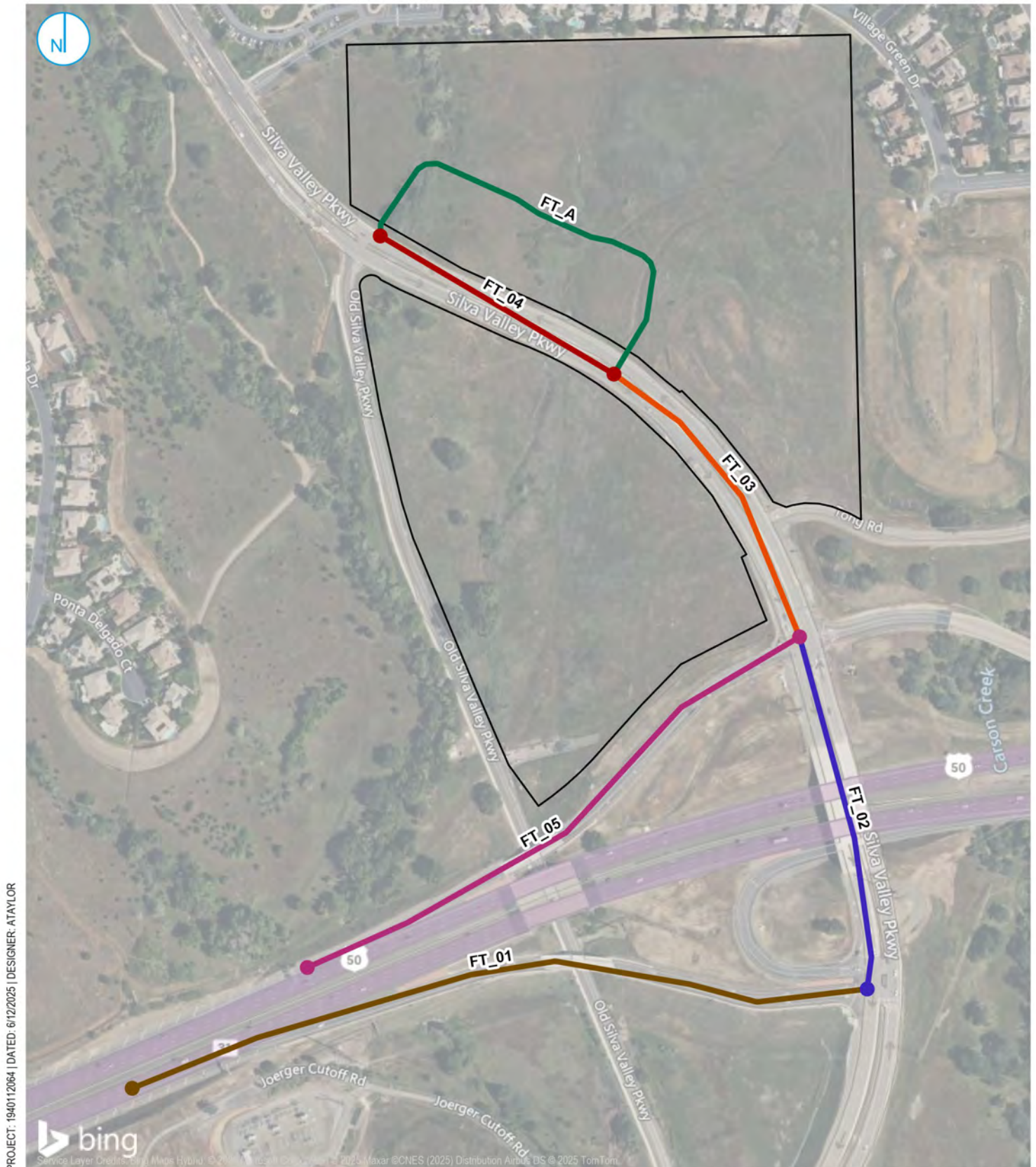
**HAULING, VENDOR, AND CONCRETE
TRUCK ROADWAYS
PROJECT CONSTRUCTION**

FIGURE 02

Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY





Site Boundary	FT_02
Fuel Delivery Truck	FT_03
FT_A	FT_04
FT_01	FT_05

0 225 450 Feet

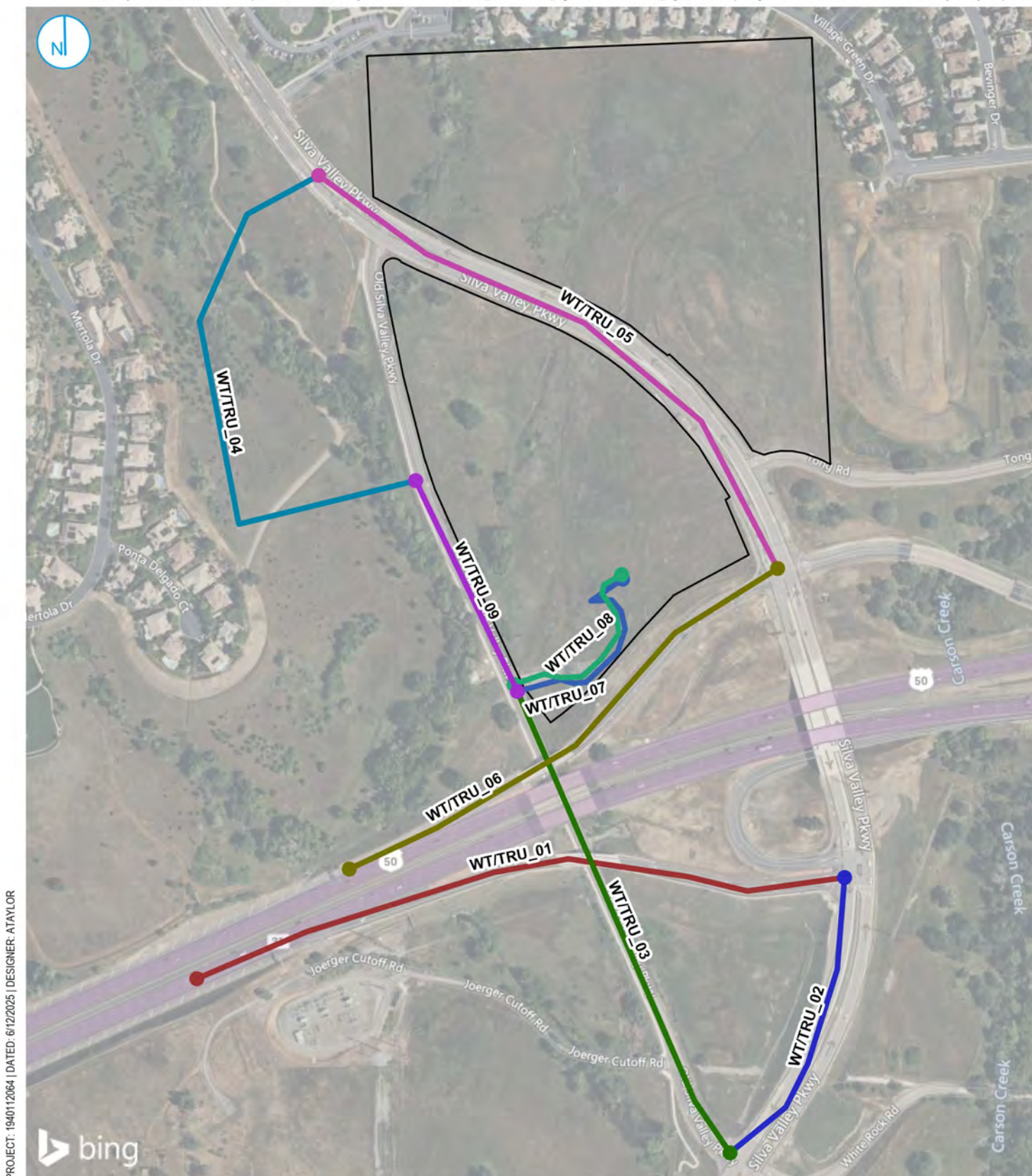
FUEL TRUCK ROADWAYS PROJECT OPERATION

Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California

FIGURE 03

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY





PROJECT: 1940112064 | DATED: 6/12/2025 | DESIGNER: ATAYLOR

Site Boundary	WT/TRU_05
Warehouse truck/TRU routes	WT/TRU_06
WT/TRU_01	WT/TRU_07
WT/TRU_02	WT/TRU_08
WT/TRU_03	WT/TRU_09
WT/TRU_04	

0 200 400
Feet

WAREHOUSE TRUCK AND TRU ROADWAYS PROJECT OPERATION

Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California

FIGURE 04

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

PROJECT: 1940112064 | DATED: 7/7/2025 | DESIGNER: ATAYLOR



- Site Boundary
- Warehouse Building
- Sources**
- Fuel Truck Idling (FT_IDL)
- Passenger Vehicle Idling (PV_IDL)
- Warehouse Truck/TRU Idling (WT_IDL/TRU_IDL)
- ◆ Emergency Generators (GEN)
- GDF Fueling and Spillage (REFILL/SPILL)
- GDF Loading and Breathing (LOADING/BREATH)

MODELED SOURCE LOCATIONS PROJECT OPERATION

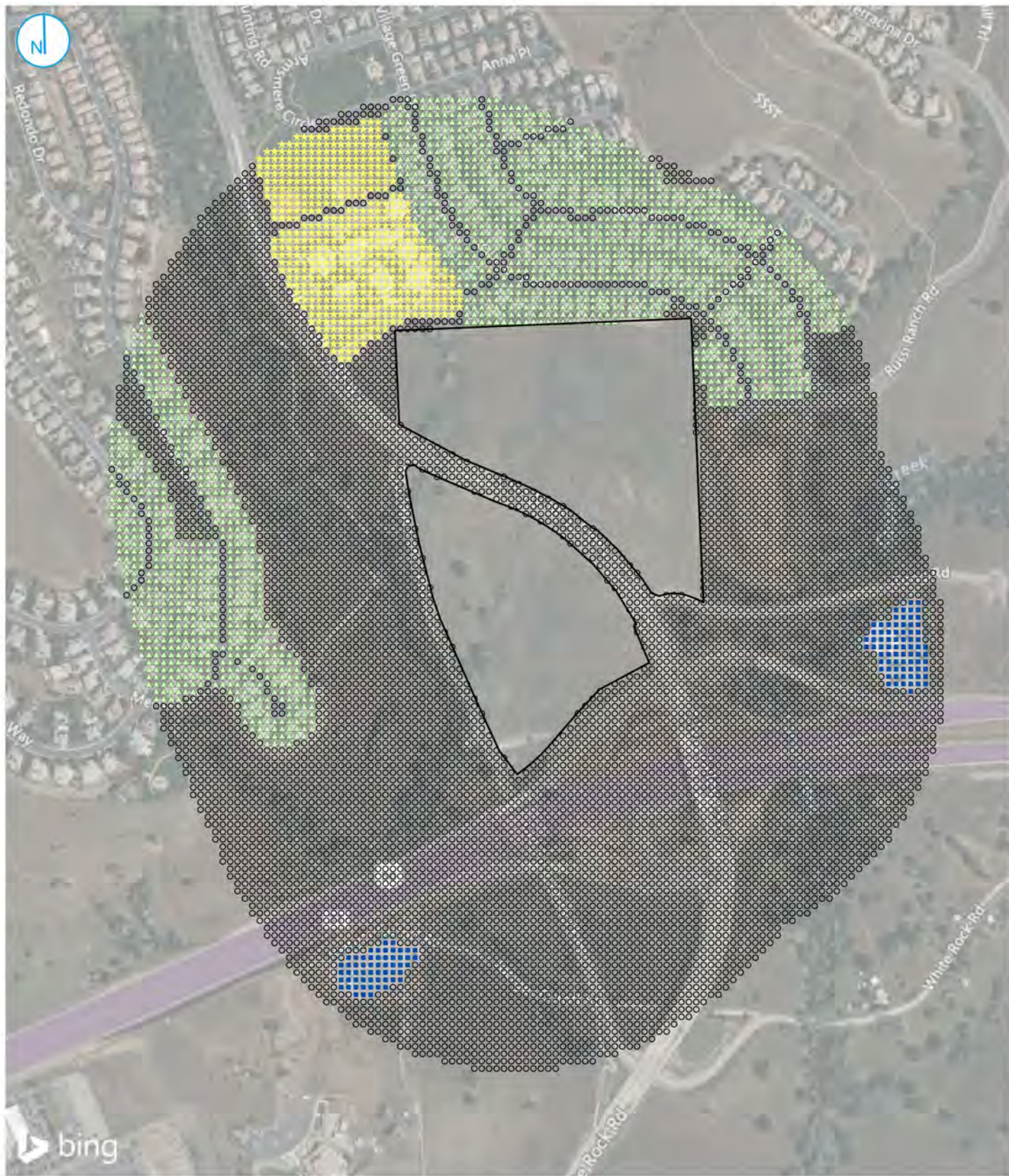
Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California

FIGURE 05

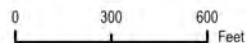
RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

PROJECT: 1940112064 | DATED: 7/8/2025 | DESIGNER: ATAYLOR



- Site Boundary
- △ Residential
- △ Other Sensitive
- Worker
- Roadway/Open Space



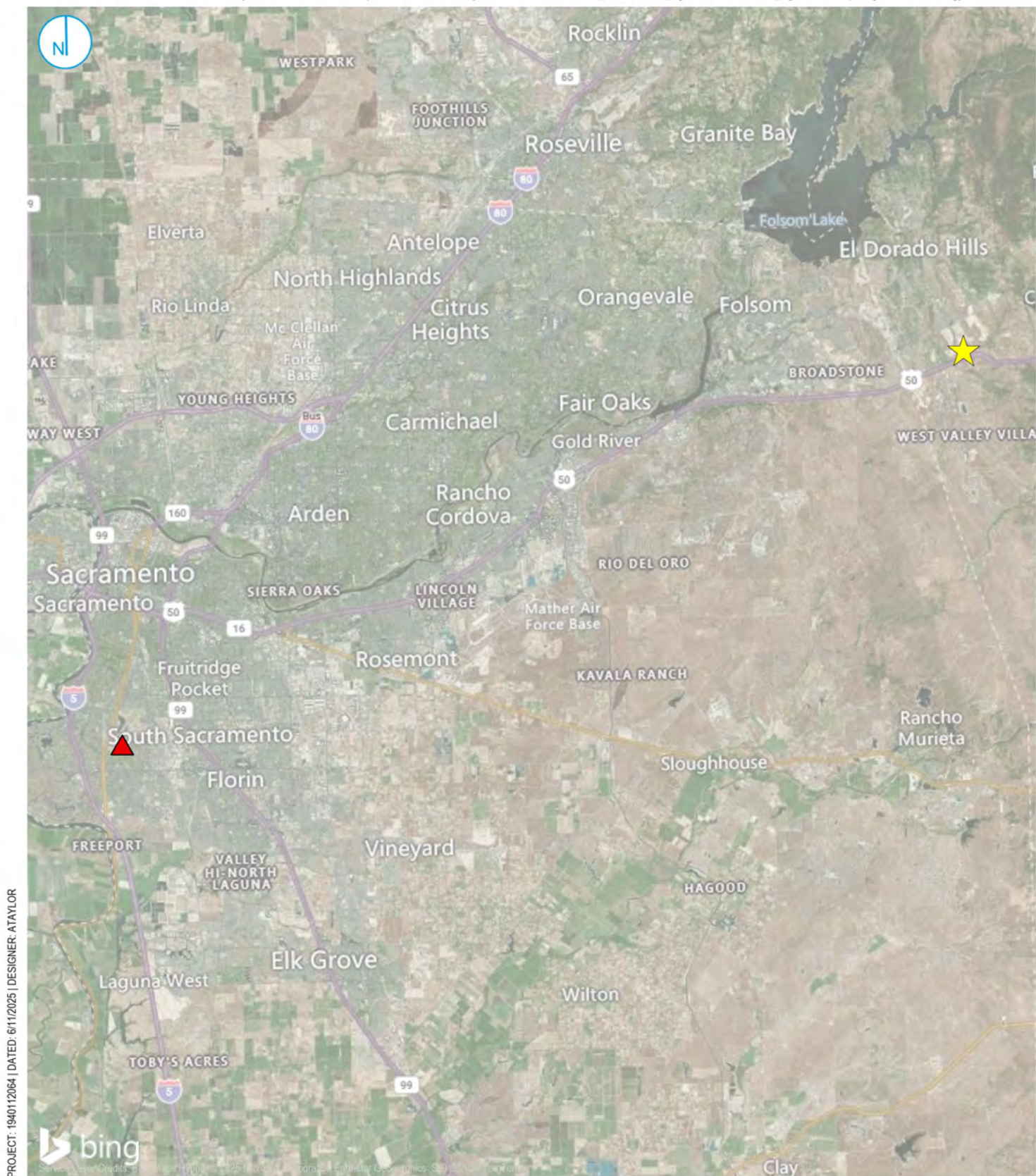
MODELED RECEPTOR LOCATIONS

FIGURE 06

Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY





-  Meteorological Station
-  Site Location

METEOROLOGY STATION LOCATIONS

FIGURE 07

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

Costco El Dorado Hills
Silva Valley Parkway
El Dorado Hills, California



0 10,000 20,000
Feet

APPENDIX A CONSTRUCTION EMISSION CALCULATIONS

Appendix A-1:	CalEEMod Model Run for Project Construction Scenario 1 Excluding Concrete Trucks
Appendix A-2:	CalEEMod Model Run for Project Construction Scenario 2 Excluding Concrete Trucks
Appendix A-3:	CalEEMod Model Run for Concrete Truck Emissions During Project Construction
Appendix A-4:	CalEEMod Model Run for Site Access and Roadway Improvements
Appendix A-5:	Construction Emission Calculation Tables

APPENDIX A-1
CALEEMOD MODEL RUN FOR PROJECT CONSTRUCTION
SCENARIO 1 EXCLUDING CONCRETE TRUCKS

EDH Costco Construction – Scenario 1 Custom Report

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5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	EDH Costco Construction – Scenario 1
Construction Start Date	7/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.659852, -121.056799
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	406
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Discount Club	165	1000sqft	3.79	165,000	318,349	—	—	—
Gasoline/Service Station	16.0	Pump	0.30	2,259	0.00	—	—	—

Parking Lot	617	Space	8.58	0.00	0.00	—	—	—
Enclosed Parking with Elevator	214	Space	2.30	100,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.5	43.1	44.6	48.3	0.13	1.54	9.44	11.0	1.42	2.35	3.77	—	14,998	14,998	0.41	0.87	13.0	15,279
Mit.	42.5	42.4	49.5	58.1	0.13	0.38	9.44	9.83	0.35	2.35	2.70	—	14,998	14,998	0.41	0.87	13.0	15,279
% Reduced	2%	2%	-11%	-20%	—	75%	—	11%	75%	—	28%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.4	43.0	45.2	46.8	0.13	1.54	9.44	11.0	1.42	2.35	3.77	—	14,870	14,870	0.41	0.87	0.34	15,139
Mit.	42.5	42.3	50.1	56.7	0.13	0.39	9.44	9.83	0.35	2.35	2.70	—	14,870	14,870	0.41	0.87	0.34	15,139
% Reduced	2%	2%	-11%	-21%	—	75%	—	11%	75%	—	28%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	8.05	7.88	21.1	21.9	0.06	0.75	3.81	4.56	0.69	0.95	1.64	—	6,554	6,554	0.19	0.35	2.29	6,667
Mit.	7.59	7.54	22.6	25.8	0.06	0.17	3.81	3.98	0.15	0.95	1.10	—	6,554	6,554	0.19	0.35	2.29	6,667
% Reduced	6%	4%	-7%	-18%	—	77%	—	13%	78%	—	33%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	1.44	3.85	3.99	0.01	0.14	0.70	0.83	0.13	0.17	0.30	—	1,085	1,085	0.03	0.06	0.38	1,104
Mit.	1.39	1.38	4.12	4.71	0.01	0.03	0.70	0.73	0.03	0.17	0.20	—	1,085	1,085	0.03	0.06	0.38	1,104
% Reduced	6%	4%	-7%	-18%	—	77%	—	13%	78%	—	33%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.61	4.75	44.6	48.3	0.13	1.54	9.44	11.0	1.42	2.35	3.77	—	14,998	14,998	0.41	0.87	13.0	15,279
2027	43.5	43.1	19.4	31.5	0.05	0.66	4.77	5.43	0.61	0.71	1.32	—	6,778	6,778	0.19	0.28	7.45	6,875
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.56	4.70	45.2	46.8	0.13	1.54	9.44	11.0	1.42	2.35	3.77	—	14,870	14,870	0.41	0.87	0.34	15,139
2027	43.4	43.0	42.6	46.1	0.13	1.42	9.44	10.9	1.31	2.35	3.66	—	14,757	14,757	0.41	0.84	0.31	15,018
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.63	2.22	21.1	21.9	0.06	0.75	3.81	4.56	0.69	0.95	1.64	—	6,554	6,554	0.19	0.35	2.29	6,667
2027	8.05	7.88	8.32	11.3	0.02	0.28	1.98	2.26	0.26	0.37	0.62	—	2,919	2,919	0.08	0.15	1.29	2,965
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.48	0.41	3.85	3.99	0.01	0.14	0.70	0.83	0.13	0.17	0.30	—	1,085	1,085	0.03	0.06	0.38	1,104
2027	1.47	1.44	1.52	2.07	< 0.005	0.05	0.36	0.41	0.05	0.07	0.11	—	483	483	0.01	0.02	0.21	491

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.69	2.52	49.5	58.1	0.13	0.38	9.44	9.83	0.35	2.35	2.70	—	14,998	14,998	0.41	0.87	13.0	15,279
2027	42.5	42.4	23.4	34.2	0.05	0.26	4.77	5.02	0.24	0.71	0.94	—	6,778	6,778	0.19	0.28	7.45	6,875
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.64	2.47	50.1	56.7	0.13	0.39	9.44	9.83	0.35	2.35	2.70	—	14,870	14,870	0.41	0.87	0.34	15,139
2027	42.5	42.3	49.5	56.3	0.13	0.37	9.44	9.82	0.34	2.35	2.69	—	14,757	14,757	0.41	0.84	0.31	15,018
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.16	1.09	22.6	25.8	0.06	0.17	3.81	3.98	0.15	0.95	1.10	—	6,554	6,554	0.19	0.35	2.29	6,667
2027	7.59	7.54	9.92	12.8	0.02	0.09	1.98	2.08	0.09	0.37	0.45	—	2,919	2,919	0.08	0.15	1.29	2,965
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.21	0.20	4.12	4.71	0.01	0.03	0.70	0.73	0.03	0.17	0.20	—	1,085	1,085	0.03	0.06	0.38	1,104
2027	1.39	1.38	1.81	2.34	< 0.005	0.02	0.36	0.38	0.02	0.07	0.08	—	483	483	0.01	0.02	0.21	491

3. Construction Emissions Details

3.1. Site Preparation (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	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.96	2.92	< 0.005	0.13	—	0.13	0.12	—	0.12	—	537	537	0.02	< 0.005	—	539
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.54	0.53	< 0.005	0.02	—	0.02	0.02	—	0.02	—	88.9	88.9	< 0.005	< 0.005	—	89.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.03	0.00	0.00	0.54	0.54	0.00	0.08	0.08	—	193	193	< 0.005	0.01	0.70	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	18.0	18.0	< 0.005	< 0.005	0.03	18.2

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	0.01	3.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2026) - Mitigated

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	0.90	0.90	24.0	28.3	0.05	0.14	—	0.14	0.13	—	0.13	—	5,298	5,298	0.21	0.04	—	5,316
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.44	2.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	537	537	0.02	< 0.005	—	539
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.02	0.02	0.44	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.9	88.9	< 0.005	< 0.005	—	89.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.03	0.00	0.00	0.54	0.54	0.00	0.08	0.08	—	193	193	< 0.005	0.01	0.70	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	18.0	18.0	< 0.005	< 0.005	0.03	18.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	0.01	3.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.46	1.23	11.0	11.1	0.02	0.45	—	0.45	0.42	—	0.42	—	2,658	2,658	0.11	0.02	—	2,667
Dust From Material Movement	—	—	—	—	—	—	1.45	1.45	—	0.57	0.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.22	2.00	2.03	< 0.005	0.08	—	0.08	0.08	—	0.08	—	440	440	0.02	< 0.005	—	441

Dust From Material Movement	—	—	—	—	—	—	0.26	0.26	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.18	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	220	220	< 0.005	0.01	0.79	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.07	5.23	0.57	0.04	0.03	1.52	1.55	0.03	0.28	0.31	—	3,372	3,372	0.02	0.54	5.36	3,538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.92	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	198	198	< 0.005	0.01	0.02	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.07	5.57	0.58	0.04	0.04	1.52	1.55	0.04	0.28	0.31	—	3,371	3,371	0.02	0.54	0.14	3,532
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.25	0.25	0.00	0.04	0.04	—	81.5	81.5	< 0.005	< 0.005	0.14	82.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.03	2.22	0.23	0.01	0.01	0.60	0.62	0.01	0.11	0.12	—	1,358	1,358	0.01	0.22	0.93	1,424
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	13.5	13.5	< 0.005	< 0.005	0.02	13.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.41	0.04	< 0.005	< 0.005	0.11	0.11	< 0.005	0.02	0.02	—	225	225	< 0.005	0.04	0.15	236

3.4. Grading (2026) - Mitigated

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	1.30	1.26	29.8	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.30	1.26	29.8	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.51	12.0	14.3	0.02	0.09	—	0.09	0.08	—	0.08	—	2,658	2,658	0.11	0.02	—	2,667
Dust From Material Movement	—	—	—	—	—	—	1.45	1.45	—	0.57	0.57	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	2.19	2.60	< 0.005	0.02	—	0.02	0.01	—	0.01	—	440	440	0.02	< 0.005	—	441
Dust From Material Movement	—	—	—	—	—	—	0.26	0.26	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.18	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	220	220	< 0.005	0.01	0.79	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.07	5.23	0.57	0.04	0.03	1.52	1.55	0.03	0.28	0.31	—	3,372	3,372	0.02	0.54	5.36	3,538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.92	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	198	198	< 0.005	0.01	0.02	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.07	5.57	0.58	0.04	0.04	1.52	1.55	0.04	0.28	0.31	—	3,371	3,371	0.02	0.54	0.14	3,532
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.25	0.25	0.00	0.04	0.04	—	81.5	81.5	< 0.005	< 0.005	0.14	82.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.03	2.22	0.23	0.01	0.01	0.60	0.62	0.01	0.11	0.12	—	1,358	1,358	0.01	0.22	0.93	1,424
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	13.5	13.5	< 0.005	< 0.005	0.02	13.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.41	0.04	< 0.005	< 0.005	0.11	0.11	< 0.005	0.02	0.02	—	225	225	< 0.005	0.04	0.15	236

3.5. Grading (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.89	2.02	< 0.005	0.08	—	0.08	0.07	—	0.07	—	488	488	0.02	< 0.005	—	490
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.35	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.8	80.8	< 0.005	< 0.005	—	81.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.86	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	195	195	< 0.005	0.01	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.07	5.25	0.57	0.04	0.04	1.52	1.55	0.04	0.28	0.31	—	3,303	3,303	0.02	0.52	0.13	3,459
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	14.7	14.7	< 0.005	< 0.005	0.02	14.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.38	0.04	< 0.005	< 0.005	0.11	0.11	< 0.005	0.02	0.02	—	244	244	< 0.005	0.04	0.16	256
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	40.5	40.5	< 0.005	0.01	0.03	42.4

3.6. Grading (2027) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	1.26	29.7	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	2.20	2.62	< 0.005	0.02	—	0.02	0.01	—	0.01	—	488	488	0.02	< 0.005	—	490
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.40	0.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	80.8	80.8	< 0.005	< 0.005	—	81.1

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.86	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	195	195	< 0.005	0.01	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.07	5.25	0.57	0.04	0.04	1.52	1.55	0.04	0.28	0.31	—	3,303	3,303	0.02	0.52	0.13	3,459
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	14.7	14.7	< 0.005	< 0.005	0.02	14.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.38	0.04	< 0.005	< 0.005	0.11	0.11	< 0.005	0.02	0.02	—	244	244	< 0.005	0.04	0.16	256
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.07	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	40.5	40.5	< 0.005	0.01	0.03	42.4

3.7. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	3.97	5.22	0.01	0.15	—	0.15	0.14	—	0.14	—	965	965	0.04	0.01	—	969
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.72	0.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	160	160	0.01	< 0.005	—	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.47	0.44	0.28	5.62	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,052	1,052	0.02	0.04	3.79	1,067
Vendor	0.04	0.04	1.96	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	3.04	1,424
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	0.44	0.39	0.39	4.41	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	947	947	0.02	0.04	0.10	959
Vendor	0.04	0.04	2.07	0.36	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	0.08	1,421
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	0.18	0.16	0.14	1.80	0.00	0.00	1.17	1.17	0.00	0.17	0.17	—	389	389	0.01	0.02	0.66	395
Vendor	0.02	0.02	0.83	0.14	< 0.005	< 0.005	0.29	0.29	< 0.005	0.05	0.05	—	547	547	< 0.005	0.08	0.53	573
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	0.03	0.03	0.03	0.33	0.00	0.00	0.21	0.21	0.00	0.03	0.03	—	64.5	64.5	< 0.005	< 0.005	0.11	65.4
Vendor	< 0.005	< 0.005	0.15	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	90.6	90.6	< 0.005	0.01	0.09	94.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2026) - Mitigated

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	0.68	0.62	12.2	15.0	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.68	0.62	12.2	15.0	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.27	0.25	4.92	6.03	0.01	0.05	—	0.05	0.05	—	0.05	—	965	965	0.04	0.01	—	969
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.05	0.05	0.90	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	160	160	0.01	< 0.005	—	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.44	0.28	5.62	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,052	1,052	0.02	0.04	3.79	1,067
Vendor	0.04	0.04	1.96	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	3.04	1,424
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	0.44	0.39	0.39	4.41	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	947	947	0.02	0.04	0.10	959
Vendor	0.04	0.04	2.07	0.36	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	0.08	1,421
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	0.18	0.16	0.14	1.80	0.00	0.00	1.17	1.17	0.00	0.17	0.17	—	389	389	0.01	0.02	0.66	395
Vendor	0.02	0.02	0.83	0.14	< 0.005	< 0.005	0.29	0.29	< 0.005	0.05	0.05	—	547	547	< 0.005	0.08	0.53	573
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	0.03	0.03	0.03	0.33	0.00	0.00	0.21	0.21	0.00	0.03	0.03	—	64.5	64.5	< 0.005	< 0.005	0.11	65.4
Vendor	< 0.005	< 0.005	0.15	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	90.6	90.6	< 0.005	0.01	0.09	94.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - 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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.46	0.39	3.52	4.86	0.01	0.13	—	0.13	0.12	—	0.12	—	900	900	0.04	0.01	—	903
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.08	0.07	0.64	0.89	< 0.005	0.02	—	0.02	0.02	—	0.02	—	149	149	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.42	0.28	5.28	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,034	1,034	0.02	0.04	3.46	1,049
Vendor	0.04	0.03	1.85	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	2.76	1,396
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	0.39	0.38	0.36	4.12	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	931	931	0.02	0.04	0.09	943
Vendor	0.04	0.03	1.95	0.35	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	0.07	1,393
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	0.15	0.14	0.12	1.58	0.00	0.00	1.09	1.09	0.00	0.16	0.16	—	357	357	0.01	0.01	0.56	362
Vendor	0.02	0.01	0.72	0.13	< 0.005	< 0.005	0.27	0.27	< 0.005	0.05	0.05	—	500	500	< 0.005	0.08	0.45	523
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	0.03	0.03	0.02	0.29	0.00	0.00	0.20	0.20	0.00	0.03	0.03	—	59.1	59.1	< 0.005	< 0.005	0.09	59.9
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	82.8	82.8	< 0.005	0.01	0.07	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

3.10. Building Construction (2027) - Mitigated

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	0.67	0.61	12.2	15.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.61	12.2	15.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.23	4.57	5.61	0.01	0.05	—	0.05	0.04	—	0.04	—	900	900	0.04	0.01	—	903
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.83	1.02	< 0.005	0.01	—	0.01	0.01	—	0.01	—	149	149	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.42	0.28	5.28	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,034	1,034	0.02	0.04	3.46	1,049
Vendor	0.04	0.03	1.85	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	2.76	1,396
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	0.39	0.38	0.36	4.12	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	931	931	0.02	0.04	0.09	943
Vendor	0.04	0.03	1.95	0.35	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	0.07	1,393
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	0.15	0.14	0.12	1.58	0.00	0.00	1.09	1.09	0.00	0.16	0.16	—	357	357	0.01	0.01	0.56	362
Vendor	0.02	0.01	0.72	0.13	< 0.005	< 0.005	0.27	0.27	< 0.005	0.05	0.05	—	500	500	< 0.005	0.08	0.45	523
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	0.03	0.03	0.02	0.29	0.00	0.00	0.20	0.20	0.00	0.03	0.03	—	59.1	59.1	< 0.005	< 0.005	0.09	59.9
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	82.8	82.8	< 0.005	0.01	0.07	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

3.11. Paving (2027) - 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	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.50	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	327	327	0.01	< 0.005	—	328

Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	0.83	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	162	162	< 0.005	0.01	0.54	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.06	0.06	0.65	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	146	146	< 0.005	0.01	0.01	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2027) - Mitigated

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	0.51	0.46	8.11	10.6	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.46	8.11	10.6	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	1.76	2.29	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.32	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	0.83	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	162	162	< 0.005	0.01	0.54	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.06	0.06	0.65	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	146	146	< 0.005	0.01	0.01	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - 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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.7	22.7	< 0.005	< 0.005	—	22.8

Architect Coatings	6.83	6.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.77
Architect ural Coating s	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.06	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	207	207	< 0.005	0.01	0.69	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.82	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	186	186	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.7	22.7	< 0.005	< 0.005	—	22.8
Architectural Coatings	6.83	6.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.77
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.06	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	207	207	< 0.005	0.01	0.69	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.82	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	186	186	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	TOG	ROG	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	7/1/2026	8/6/2026	7.00	37.0	—
Grading	Grading	8/7/2026	1/27/2027	7.00	174	—
Building Construction	Building Construction	8/7/2026	5/17/2027	7.00	284	—
Paving	Paving	1/28/2027	4/16/2027	7.00	79.0	—
Architectural Coating	Architectural Coating	3/17/2027	5/17/2027	7.00	62.0	—

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/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
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	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
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

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 3	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	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	38.8	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.5	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	43.8	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.1	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	38.8	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.5	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	43.8	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.1	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (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	255,397	84,130	28,436

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	54,000	—	522	0.00	—
Paving	0.00	0.00	0.00	0.00	10.9

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
Discount Club	0.00	0%
Gasoline/Service Station	0.00	0%
Parking Lot	8.58	100%
Enclosed Parking with Elevator	2.30	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	—
Land Use	Based on project-specific information.
Construction: Construction Phases	Based on project-specific information.
Construction: Dust From Material Movement	Construction material movement based on project-specific information. Watering 2x/day based on Rule 223-1, Table 1.
Construction: Architectural Coatings	Updated the VOC emission factor based on EDCAPCD Rule 215 Limits.
Construction: Electricity	—
Construction: On-Road Fugitive Dust	Percent paved roads updated based on Project-specific information.

APPENDIX A-2
CALEEMOD MODEL RUN FOR PROJECT CONSTRUCTION
SCENARIO 2 EXCLUDING CONCRETE TRUCKS

EDH Costco Construction – Scenario 2 Custom Report

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4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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5.2.1. Unmitigated

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5.4.1. Construction Vehicle Control Strategies

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5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	EDH Costco Construction – Scenario 2
Construction Start Date	7/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.659852, -121.056799
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	406
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Discount Club	165	1000sqft	3.79	165,000	318,349	—	—	—
Gasoline/Service Station	16.0	Pump	0.30	2,259	0.00	—	—	—

Parking Lot	617	Space	8.58	0.00	0.00	—	—	—
Enclosed Parking with Elevator	214	Space	2.30	100,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.5	43.1	54.9	49.4	0.20	1.61	12.4	14.0	1.49	2.89	4.38	—	21,616	21,616	0.45	1.92	23.5	22,224
Mit.	42.5	42.4	59.8	59.2	0.20	0.45	12.4	12.9	0.42	2.89	3.31	—	21,616	21,616	0.45	1.92	23.5	22,224
% Reduced	2%	2%	-9%	-20%	—	72%	—	8%	72%	—	24%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.4	43.0	56.1	48.0	0.20	1.61	12.4	14.0	1.49	2.89	4.38	—	21,488	21,488	0.45	1.92	0.61	22,073
Mit.	42.5	42.3	61.0	57.8	0.20	0.45	12.4	12.9	0.42	2.89	3.31	—	21,488	21,488	0.45	1.92	0.61	22,073
% Reduced	2%	2%	-9%	-21%	—	72%	—	8%	72%	—	24%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	8.06	7.89	25.5	22.3	0.08	0.77	5.00	5.78	0.72	1.17	1.88	—	9,219	9,219	0.20	0.78	4.12	9,461
Mit.	7.60	7.55	26.9	26.2	0.08	0.20	5.00	5.20	0.18	1.17	1.35	—	9,219	9,219	0.20	0.78	4.12	9,461
% Reduced	6%	4%	-6%	-18%	—	75%	—	10%	75%	—	28%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	1.44	4.65	4.08	0.02	0.14	0.91	1.05	0.13	0.21	0.34	—	1,526	1,526	0.03	0.13	0.68	1,566
Mit.	1.39	1.38	4.91	4.79	0.02	0.04	0.91	0.95	0.03	0.21	0.25	—	1,526	1,526	0.03	0.13	0.68	1,566
% Reduced	6%	4%	-6%	-18%	—	75%	—	10%	75%	—	28%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.79	4.89	54.9	49.4	0.20	1.61	12.4	14.0	1.49	2.89	4.38	—	21,616	21,616	0.45	1.92	23.5	22,224
2027	43.5	43.1	19.4	31.5	0.05	0.66	4.77	5.43	0.61	0.71	1.32	—	6,778	6,778	0.19	0.28	7.45	6,875
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.74	4.83	56.1	48.0	0.20	1.61	12.4	14.0	1.49	2.89	4.38	—	21,488	21,488	0.45	1.92	0.61	22,073
2027	43.4	43.0	52.9	47.2	0.20	1.49	12.4	13.9	1.38	2.89	4.27	—	21,240	21,240	0.45	1.86	0.56	21,808
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.70	2.28	25.5	22.3	0.08	0.77	5.00	5.78	0.72	1.17	1.88	—	9,219	9,219	0.20	0.78	4.12	9,461
2027	8.06	7.89	9.07	11.4	0.03	0.28	2.20	2.48	0.26	0.41	0.67	—	3,398	3,398	0.09	0.22	1.60	3,468
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.49	0.42	4.65	4.08	0.02	0.14	0.91	1.05	0.13	0.21	0.34	—	1,526	1,526	0.03	0.13	0.68	1,566
2027	1.47	1.44	1.66	2.08	0.01	0.05	0.40	0.45	0.05	0.07	0.12	—	563	563	0.01	0.04	0.26	574

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.87	2.66	59.8	59.2	0.20	0.45	12.4	12.9	0.42	2.89	3.31	—	21,616	21,616	0.45	1.92	23.5	22,224
2027	42.5	42.4	23.4	34.2	0.05	0.26	4.77	5.02	0.24	0.71	0.94	—	6,778	6,778	0.19	0.28	7.45	6,875
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.82	2.61	61.0	57.8	0.20	0.45	12.4	12.9	0.42	2.89	3.31	—	21,488	21,488	0.45	1.92	0.61	22,073
2027	42.5	42.3	59.9	57.4	0.20	0.44	12.4	12.9	0.41	2.89	3.30	—	21,240	21,240	0.45	1.86	0.56	21,808
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.23	1.15	26.9	26.2	0.08	0.20	5.00	5.20	0.18	1.17	1.35	—	9,219	9,219	0.20	0.78	4.12	9,461
2027	7.60	7.55	10.7	12.9	0.03	0.10	2.20	2.30	0.09	0.41	0.50	—	3,398	3,398	0.09	0.22	1.60	3,468
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.23	0.21	4.91	4.79	0.02	0.04	0.91	0.95	0.03	0.21	0.25	—	1,526	1,526	0.03	0.13	0.68	1,566
2027	1.39	1.38	1.95	2.35	0.01	0.02	0.40	0.42	0.02	0.07	0.09	—	563	563	0.01	0.04	0.26	574

3. Construction Emissions Details

3.1. Site Preparation (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	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.96	2.92	< 0.005	0.13	—	0.13	0.12	—	0.12	—	537	537	0.02	< 0.005	—	539
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.54	0.53	< 0.005	0.02	—	0.02	0.02	—	0.02	—	88.9	88.9	< 0.005	< 0.005	—	89.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.03	0.00	0.00	0.54	0.54	0.00	0.08	0.08	—	193	193	< 0.005	0.01	0.70	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	18.0	18.0	< 0.005	< 0.005	0.03	18.2

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	0.01	3.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2026) - Mitigated

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	0.90	0.90	24.0	28.3	0.05	0.14	—	0.14	0.13	—	0.13	—	5,298	5,298	0.21	0.04	—	5,316
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	2.44	2.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	537	537	0.02	< 0.005	—	539
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.02	0.02	0.44	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.9	88.9	< 0.005	< 0.005	—	89.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.03	0.00	0.00	0.54	0.54	0.00	0.08	0.08	—	193	193	< 0.005	0.01	0.70	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	18.0	18.0	< 0.005	< 0.005	0.03	18.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	0.01	3.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.61	3.61	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.61	3.61	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.46	1.23	11.0	11.1	0.02	0.45	—	0.45	0.42	—	0.42	—	2,658	2,658	0.11	0.02	—	2,667
Dust From Material Movement	—	—	—	—	—	—	1.45	1.45	—	0.58	0.58	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.22	2.00	2.03	< 0.005	0.08	—	0.08	0.08	—	0.08	—	440	440	0.02	< 0.005	—	441

Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.18	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	220	220	< 0.005	0.01	0.79	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.21	15.5	1.68	0.10	0.10	4.50	4.60	0.10	0.82	0.92	—	9,990	9,990	0.06	1.59	15.9	10,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.92	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	198	198	< 0.005	0.01	0.02	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.21	16.5	1.72	0.10	0.10	4.50	4.60	0.10	0.82	0.92	—	9,989	9,989	0.06	1.59	0.41	10,466
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.25	0.25	0.00	0.04	0.04	—	81.5	81.5	< 0.005	< 0.005	0.14	82.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.08	6.58	0.68	0.04	0.04	1.78	1.82	0.04	0.33	0.37	—	4,023	4,023	0.02	0.64	2.77	4,218
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	13.5	13.5	< 0.005	< 0.005	0.02	13.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.02	1.20	0.12	0.01	0.01	0.33	0.33	0.01	0.06	0.07	—	666	666	< 0.005	0.11	0.46	698

3.4. Grading (2026) - Mitigated

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	1.30	1.26	29.8	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.61	3.61	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.30	1.26	29.8	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.61	3.61	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.51	12.0	14.3	0.02	0.09	—	0.09	0.08	—	0.08	—	2,658	2,658	0.11	0.02	—	2,667
Dust From Material Movement	—	—	—	—	—	—	1.45	1.45	—	0.58	0.58	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	2.19	2.60	< 0.005	0.02	—	0.02	0.01	—	0.01	—	440	440	0.02	< 0.005	—	441
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.18	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	220	220	< 0.005	0.01	0.79	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.21	15.5	1.68	0.10	0.10	4.50	4.60	0.10	0.82	0.92	—	9,990	9,990	0.06	1.59	15.9	10,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.92	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	198	198	< 0.005	0.01	0.02	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.21	16.5	1.72	0.10	0.10	4.50	4.60	0.10	0.82	0.92	—	9,989	9,989	0.06	1.59	0.41	10,466
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.38	0.00	0.00	0.25	0.25	0.00	0.04	0.04	—	81.5	81.5	< 0.005	< 0.005	0.14	82.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.08	6.58	0.68	0.04	0.04	1.78	1.82	0.04	0.33	0.37	—	4,023	4,023	0.02	0.64	2.77	4,218
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	13.5	13.5	< 0.005	< 0.005	0.02	13.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.02	1.20	0.12	0.01	0.01	0.33	0.33	0.01	0.06	0.07	—	666	666	< 0.005	0.11	0.46	698

3.5. Grading (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.61	3.61	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.89	2.02	< 0.005	0.08	—	0.08	0.07	—	0.07	—	488	488	0.02	< 0.005	—	490
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.35	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.8	80.8	< 0.005	< 0.005	—	81.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.86	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	195	195	< 0.005	0.01	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.21	15.6	1.68	0.10	0.10	4.50	4.60	0.10	0.82	0.92	—	9,786	9,786	0.06	1.54	0.38	10,248
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	14.7	14.7	< 0.005	< 0.005	0.02	14.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.02	1.14	0.12	0.01	0.01	0.33	0.34	0.01	0.06	0.07	—	724	724	< 0.005	0.11	0.47	759
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.21	0.02	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.08	126

3.6. Grading (2027) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	1.26	29.7	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.61	3.61	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	2.20	2.62	< 0.005	0.02	—	0.02	0.01	—	0.01	—	488	488	0.02	< 0.005	—	490
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.40	0.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	80.8	80.8	< 0.005	< 0.005	—	81.1

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.86	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	195	195	< 0.005	0.01	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.27	0.21	15.6	1.68	0.10	0.10	4.50	4.60	0.10	0.82	0.92	—	9,786	9,786	0.06	1.54	0.38	10,248
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	14.7	14.7	< 0.005	< 0.005	0.02	14.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.02	1.14	0.12	0.01	0.01	0.33	0.34	0.01	0.06	0.07	—	724	724	< 0.005	0.11	0.47	759
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.47
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.21	0.02	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.08	126

3.7. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	3.97	5.22	0.01	0.15	—	0.15	0.14	—	0.14	—	965	965	0.04	0.01	—	969
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.72	0.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	160	160	0.01	< 0.005	—	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.47	0.44	0.28	5.62	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,052	1,052	0.02	0.04	3.79	1,067
Vendor	0.04	0.04	1.96	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	3.04	1,424
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	0.44	0.39	0.39	4.41	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	947	947	0.02	0.04	0.10	959
Vendor	0.04	0.04	2.07	0.36	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	0.08	1,421
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	0.18	0.16	0.14	1.80	0.00	0.00	1.17	1.17	0.00	0.17	0.17	—	389	389	0.01	0.02	0.66	395
Vendor	0.02	0.02	0.83	0.14	< 0.005	< 0.005	0.29	0.29	< 0.005	0.05	0.05	—	547	547	< 0.005	0.08	0.53	573
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	0.03	0.03	0.03	0.33	0.00	0.00	0.21	0.21	0.00	0.03	0.03	—	64.5	64.5	< 0.005	< 0.005	0.11	65.4
Vendor	< 0.005	< 0.005	0.15	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	90.6	90.6	< 0.005	0.01	0.09	94.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2026) - Mitigated

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	0.68	0.62	12.2	15.0	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.68	0.62	12.2	15.0	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.27	0.25	4.92	6.03	0.01	0.05	—	0.05	0.05	—	0.05	—	965	965	0.04	0.01	—	969
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.05	0.05	0.90	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	160	160	0.01	< 0.005	—	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.44	0.28	5.62	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,052	1,052	0.02	0.04	3.79	1,067
Vendor	0.04	0.04	1.96	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	3.04	1,424
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	0.44	0.39	0.39	4.41	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	947	947	0.02	0.04	0.10	959
Vendor	0.04	0.04	2.07	0.36	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,358	1,358	< 0.005	0.21	0.08	1,421
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	0.18	0.16	0.14	1.80	0.00	0.00	1.17	1.17	0.00	0.17	0.17	—	389	389	0.01	0.02	0.66	395
Vendor	0.02	0.02	0.83	0.14	< 0.005	< 0.005	0.29	0.29	< 0.005	0.05	0.05	—	547	547	< 0.005	0.08	0.53	573
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	0.03	0.03	0.03	0.33	0.00	0.00	0.21	0.21	0.00	0.03	0.03	—	64.5	64.5	< 0.005	< 0.005	0.11	65.4
Vendor	< 0.005	< 0.005	0.15	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	90.6	90.6	< 0.005	0.01	0.09	94.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - 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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.46	0.39	3.52	4.86	0.01	0.13	—	0.13	0.12	—	0.12	—	900	900	0.04	0.01	—	903
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.08	0.07	0.64	0.89	< 0.005	0.02	—	0.02	0.02	—	0.02	—	149	149	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.42	0.28	5.28	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,034	1,034	0.02	0.04	3.46	1,049
Vendor	0.04	0.03	1.85	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	2.76	1,396
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	0.39	0.38	0.36	4.12	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	931	931	0.02	0.04	0.09	943
Vendor	0.04	0.03	1.95	0.35	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	0.07	1,393
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	0.15	0.14	0.12	1.58	0.00	0.00	1.09	1.09	0.00	0.16	0.16	—	357	357	0.01	0.01	0.56	362
Vendor	0.02	0.01	0.72	0.13	< 0.005	< 0.005	0.27	0.27	< 0.005	0.05	0.05	—	500	500	< 0.005	0.08	0.45	523
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	0.03	0.03	0.02	0.29	0.00	0.00	0.20	0.20	0.00	0.03	0.03	—	59.1	59.1	< 0.005	< 0.005	0.09	59.9
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	82.8	82.8	< 0.005	0.01	0.07	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

3.10. Building Construction (2027) - Mitigated

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	0.67	0.61	12.2	15.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.61	12.2	15.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.23	4.57	5.61	0.01	0.05	—	0.05	0.04	—	0.04	—	900	900	0.04	0.01	—	903
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.83	1.02	< 0.005	0.01	—	0.01	0.01	—	0.01	—	149	149	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.42	0.28	5.28	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	1,034	1,034	0.02	0.04	3.46	1,049
Vendor	0.04	0.03	1.85	0.34	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	2.76	1,396
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	0.39	0.38	0.36	4.12	0.00	0.00	2.97	2.97	0.00	0.43	0.43	—	931	931	0.02	0.04	0.09	943
Vendor	0.04	0.03	1.95	0.35	0.01	0.01	0.73	0.74	0.01	0.13	0.14	—	1,333	1,333	< 0.005	0.20	0.07	1,393
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	0.15	0.14	0.12	1.58	0.00	0.00	1.09	1.09	0.00	0.16	0.16	—	357	357	0.01	0.01	0.56	362
Vendor	0.02	0.01	0.72	0.13	< 0.005	< 0.005	0.27	0.27	< 0.005	0.05	0.05	—	500	500	< 0.005	0.08	0.45	523
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	0.03	0.03	0.02	0.29	0.00	0.00	0.20	0.20	0.00	0.03	0.03	—	59.1	59.1	< 0.005	< 0.005	0.09	59.9
Vendor	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	82.8	82.8	< 0.005	0.01	0.07	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

3.11. Paving (2027) - 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	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.50	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	327	327	0.01	< 0.005	—	328

Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	0.83	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	162	162	< 0.005	0.01	0.54	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.06	0.06	0.65	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	146	146	< 0.005	0.01	0.01	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2027) - Mitigated

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	0.51	0.46	8.11	10.6	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.46	8.11	10.6	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.36	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	1.76	2.29	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.32	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.04	0.83	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	162	162	< 0.005	0.01	0.54	165
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.06	0.06	0.06	0.65	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	146	146	< 0.005	0.01	0.01	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - 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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.7	22.7	< 0.005	< 0.005	—	22.8

Architect Coatings	6.83	6.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.77
Architect ural Coating s	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.06	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	207	207	< 0.005	0.01	0.69	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.82	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	186	186	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	40.2	40.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.7	22.7	< 0.005	< 0.005	—	22.8
Architectural Coatings	6.83	6.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.77
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	1.06	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	207	207	< 0.005	0.01	0.69	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	0.82	0.00	0.00	0.59	0.59	0.00	0.09	0.09	—	186	186	< 0.005	0.01	0.02	189
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.10	0.10	0.00	0.01	0.01	—	32.3	32.3	< 0.005	< 0.005	0.05	32.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	5.35	5.35	< 0.005	< 0.005	0.01	5.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	TOG	ROG	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	7/1/2026	8/6/2026	7.00	37.0	—
Grading	Grading	8/7/2026	1/27/2027	7.00	174	—
Building Construction	Building Construction	8/7/2026	5/17/2027	7.00	284	—
Paving	Paving	1/28/2027	4/16/2027	7.00	79.0	—
Architectural Coating	Architectural Coating	3/17/2027	5/17/2027	7.00	62.0	—

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/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
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	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
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

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 3	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	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	115	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.5	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	43.8	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.1	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	115	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.5	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	43.8	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.1	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (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	255,397	84,130	28,436

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	107,000	53,000	522	0.00	—
Paving	0.00	0.00	0.00	0.00	10.9

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
Discount Club	0.00	0%
Gasoline/Service Station	0.00	0%
Parking Lot	8.58	100%
Enclosed Parking with Elevator	2.30	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	—
Land Use	Based on project-specific information.
Construction: Construction Phases	Based on project-specific information.
Construction: Dust From Material Movement	Construction material movement based on project-specific information. Watering 2x/day based on Rule 223-1, Table 1.
Construction: Architectural Coatings	Updated the VOC emission factor based on EDCAPCD Rule 215 Limits.
Construction: Electricity	—
Construction: On-Road Fugitive Dust	Percent paved roads updated based on Project-specific information.

APPENDIX A-3
CALEEMOD MODEL RUN FOR CONCRETE TRUCK EMISSIONS
DURING PROJECT CONSTRUCTION

EDH Costco Construction - Concrete Trucks Custom Report

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5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	EDH Costco Construction - Concrete Trucks
Construction Start Date	12/3/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.659852, -121.056799
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	406
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Discount Club	165	1000sqft	3.79	165,000	318,349	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.11	7.50	1.07	0.04	0.04	1.79	1.83	0.04	0.33	0.37	—	4,049	4,049	0.03	0.65	0.16	4,242
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	0.16	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	88.8	88.8	< 0.005	0.01	0.06	93.1
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	15.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.14	0.11	7.50	1.07	0.04	0.04	1.79	1.83	0.04	0.33	0.37	—	4,049	4,049	0.03	0.65	0.16	4,242
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	< 0.005	< 0.005	0.16	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	88.8	88.8	< 0.005	0.01	0.06	93.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	15.4

3. Construction Emissions Details

3.1. Building Construction - Concrete Pour (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.14	0.11	7.50	1.07	0.04	0.04	1.79	1.83	0.04	0.33	0.37	—	4,049	4,049	0.03	0.65	0.16	4,242
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.16	0.02	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	88.8	88.8	< 0.005	0.01	0.06	93.1
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	15.4
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

4. Operations Emissions Details

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Building Construction - Concrete Pour	Building Construction	12/3/2026	12/10/2026	7.00	8.00	—

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

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction - Concrete Pour	—	—	—	—
Building Construction - Concrete Pour	Worker	0.00	0.00	LDA,LDT1,LDT2
Building Construction - Concrete Pour	Vendor	104	8.80	HHDT
Building Construction - Concrete Pour	Hauling	0.00	0.00	HHDT
Building Construction - Concrete Pour	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (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)

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)

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Discount Club	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005

5.18. 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
Characteristics: Utility Information	—
Land Use	Project-specific information was provided by the Project Applicant.
Construction: Construction Phases	Based on project-specific information.
Construction: Off-Road Equipment	Concrete truck run only.
Construction: Trips and VMT	Vendor fleet mix based on project-specific information.
Construction: Electricity	—
Construction: On-Road Fugitive Dust	Percent paved roads updated based on Project-specific information.

APPENDIX A-4
CALEEMOD MODEL RUN FOR SITE ACCESS AND ROADWAY IMPROVEMENTS

Site Access and Roadway Improvements Custom Report

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4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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5.18.1. Land Use Change

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5.18.1.1. Unmitigated

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5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Site Access and Roadway Improvements
Construction Start Date	7/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.659852, -121.056799
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	406
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Road Widening	0.60	Mile	7.20	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.69	0.58	5.73	5.26	0.02	0.24	1.48	1.71	0.22	0.24	0.44	—	1,815	1,815	0.03	0.18	2.10	1,872
Mit.	0.42	0.37	5.15	5.25	0.02	0.09	1.48	1.55	0.08	0.24	0.30	—	1,815	1,815	0.03	0.18	2.10	1,872
% Reduced	39%	37%	10%	< 0.5%	—	64%	—	9%	64%	—	32%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.33	1.12	9.42	10.5	0.02	0.33	0.54	0.80	0.31	0.07	0.37	—	2,695	2,695	0.11	0.03	0.02	2,706
Mit.	0.78	0.72	12.2	14.7	0.02	0.13	0.54	0.62	0.11	0.07	0.18	—	2,695	2,695	0.11	0.03	0.02	2,706
% Reduced	41%	36%	-30%	-39%	—	62%	—	22%	63%	—	51%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.43	0.37	3.00	3.31	0.01	0.13	0.32	0.46	0.12	0.05	0.17	—	742	742	0.03	0.02	0.16	750
Mit.	0.26	0.23	3.20	3.90	0.01	0.05	0.32	0.37	0.04	0.05	0.09	—	742	742	0.03	0.02	0.16	750
% Reduced	40%	37%	-7%	-18%	—	64%	—	19%	64%	—	47%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.55	0.60	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	123	123	< 0.005	< 0.005	0.03	124
Mit.	0.05	0.04	0.58	0.71	< 0.005	0.01	0.06	0.07	0.01	0.01	0.02	—	123	123	< 0.005	< 0.005	0.03	124
% Reduced	40%	37%	-7%	-18%	—	64%	—	19%	64%	—	47%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.69	0.58	5.73	5.26	0.02	0.24	1.48	1.71	0.22	0.24	0.44	—	1,815	1,815	0.03	0.18	2.10	1,872
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.33	1.12	9.42	10.5	0.02	0.33	0.54	0.80	0.31	0.07	0.37	—	2,695	2,695	0.11	0.03	0.02	2,706
2027	1.29	1.08	8.89	10.4	0.02	0.31	0.47	0.78	0.28	0.07	0.35	—	2,692	2,692	0.11	0.03	0.01	2,702
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.43	0.37	3.00	3.31	0.01	0.13	0.32	0.46	0.12	0.05	0.17	—	742	742	0.03	0.02	0.16	750
2027	0.17	0.14	1.23	1.58	< 0.005	0.05	0.07	0.12	0.04	0.01	0.05	—	362	362	0.01	< 0.005	0.04	363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.07	0.55	0.60	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	123	123	< 0.005	< 0.005	0.03	124
2027	0.03	0.03	0.22	0.29	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	59.9	59.9	< 0.005	< 0.005	0.01	60.1

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.42	0.37	5.15	5.25	0.02	0.09	1.48	1.55	0.08	0.24	0.30	—	1,815	1,815	0.03	0.18	2.10	1,872
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.78	0.72	12.2	14.7	0.02	0.13	0.54	0.62	0.11	0.07	0.18	—	2,695	2,695	0.11	0.03	0.02	2,706
2027	0.77	0.71	12.2	14.6	0.02	0.12	0.47	0.59	0.11	0.07	0.18	—	2,692	2,692	0.11	0.03	0.01	2,702
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.26	0.23	3.20	3.90	0.01	0.05	0.32	0.37	0.04	0.05	0.09	—	742	742	0.03	0.02	0.16	750
2027	0.10	0.09	1.65	2.06	< 0.005	0.01	0.07	0.09	0.01	0.01	0.02	—	362	362	0.01	< 0.005	0.04	363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.05	0.04	0.58	0.71	< 0.005	0.01	0.06	0.07	0.01	0.01	0.02	—	123	123	< 0.005	< 0.005	0.03	124
2027	0.02	0.02	0.30	0.38	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	59.9	59.9	< 0.005	< 0.005	0.01	60.1

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (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	0.55	0.46	4.04	4.49	0.01	0.21	—	0.21	0.20	—	0.20	—	632	632	0.03	0.01	—	634
Demolition	—	—	—	—	—	—	0.69	0.69	—	0.10	0.10	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.29	0.32	< 0.005	0.02	—	0.02	0.01	—	0.01	—	45.0	45.0	< 0.005	< 0.005	—	45.2
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.45	7.45	< 0.005	< 0.005	—	7.48
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.59	0.00	0.00	0.31	0.31	0.00	0.04	0.04	—	110	110	< 0.005	< 0.005	0.40	112
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.02	1.67	0.18	0.01	0.01	0.48	0.49	0.01	0.09	0.10	—	1,073	1,073	0.01	0.17	1.70	1,126
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	7.21	7.21	< 0.005	< 0.005	0.01	7.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.12	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	76.4	76.4	< 0.005	0.01	0.05	80.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.01	13.3

3.2. Linear, Grubbing & Land Clearing (2026) - Mitigated

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	0.29	0.25	3.45	4.48	0.01	0.06	—	0.06	0.05	—	0.05	—	632	632	0.03	0.01	—	634
Demolition	—	—	—	—	—	—	0.69	0.69	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.25	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.0	45.0	< 0.005	< 0.005	—	45.2
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.45	7.45	< 0.005	< 0.005	—	7.48
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.59	0.00	0.00	0.31	0.31	0.00	0.04	0.04	—	110	110	< 0.005	< 0.005	0.40	112
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.02	1.67	0.18	0.01	0.01	0.48	0.49	0.01	0.09	0.10	—	1,073	1,073	0.01	0.17	1.70	1,126
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	7.21	7.21	< 0.005	< 0.005	0.01	7.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.12	0.01	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	76.4	76.4	< 0.005	0.01	0.05	80.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.21

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.01	13.3

3.3. Linear, Grading & Excavation (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	0.64	0.53	4.14	4.43	0.01	0.24	—	0.24	0.22	—	0.22	—	632	632	0.03	0.01	—	634
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.53	4.14	4.43	0.01	0.24	—	0.24	0.22	—	0.22	—	632	632	0.03	0.01	—	634
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.18	0.15	1.19	1.28	< 0.005	0.07	—	0.07	0.06	—	0.06	—	182	182	0.01	< 0.005	—	182
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.22	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.1	30.1	< 0.005	< 0.005	—	30.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.59	0.00	0.00	0.31	0.31	0.00	0.04	0.04	—	110	110	< 0.005	< 0.005	0.40	112
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	31.0	31.0	< 0.005	< 0.005	0.07	32.5
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	0.01	7.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.31	0.31	0.00	0.04	0.04	—	99.1	99.1	< 0.005	< 0.005	0.01	100
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	31.0	31.0	< 0.005	< 0.005	< 0.005	32.4
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.80
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.09	0.09	0.00	0.01	0.01	—	29.1	29.1	< 0.005	< 0.005	0.05	29.5

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.92	8.92	< 0.005	< 0.005	0.01	9.34
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	4.82	4.82	< 0.005	< 0.005	0.01	4.89
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.48	1.48	< 0.005	< 0.005	< 0.005	1.55
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.4. Linear, Grading & Excavation (2026) - Mitigated

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	0.37	0.32	3.55	4.42	0.01	0.09	—	0.09	0.08	—	0.08	—	632	632	0.03	0.01	—	634
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.32	3.55	4.42	0.01	0.09	—	0.09	0.08	—	0.08	—	632	632	0.03	0.01	—	634

Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	1.02	1.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	182	182	0.01	< 0.005	—	182
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.1	30.1	< 0.005	< 0.005	—	30.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.59	0.00	0.00	0.31	0.31	0.00	0.04	0.04	—	110	110	< 0.005	< 0.005	0.40	112
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	31.0	31.0	< 0.005	< 0.005	0.07	32.5
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	0.01	7.82

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.31	0.31	0.00	0.04	0.04	—	99.1	99.1	< 0.005	< 0.005	0.01	100
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	31.0	31.0	< 0.005	< 0.005	< 0.005	32.4
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.80
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.09	0.09	0.00	0.01	0.01	—	29.1	29.1	< 0.005	< 0.005	0.05	29.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.92	8.92	< 0.005	< 0.005	0.01	9.34
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.14	2.14	< 0.005	< 0.005	< 0.005	2.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	4.82	4.82	< 0.005	< 0.005	0.01	4.89
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.48	1.48	< 0.005	< 0.005	< 0.005	1.55
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.5. Linear, Drainage, Utilities, & Sub-Grade (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	1.06	9.36	9.84	0.02	0.33	—	0.33	0.31	—	0.31	—	2,546	2,546	0.10	0.02	—	2,555
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.36	1.43	< 0.005	0.05	—	0.05	0.04	—	0.04	—	370	370	0.01	< 0.005	—	371
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	61.2	61.2	< 0.005	< 0.005	—	61.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	149	149	< 0.005	0.01	0.02	151
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.07	0.07	0.00	0.01	0.01	—	22.1	22.1	< 0.005	< 0.005	0.04	22.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	0.01	3.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Linear, Drainage, Utilities, & Sub-Grade (2026) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	12.2	14.0	0.02	0.13	—	0.13	0.11	—	0.11	—	2,546	2,546	0.10	0.02	—	2,555
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	1.77	2.03	< 0.005	0.02	—	0.02	0.02	—	0.02	—	370	370	0.01	< 0.005	—	371
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.32	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	61.2	61.2	< 0.005	< 0.005	—	61.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	149	149	< 0.005	0.01	0.02	151
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.07	0.07	0.00	0.01	0.01	—	22.1	22.1	< 0.005	< 0.005	0.04	22.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	0.01	3.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Linear, Drainage, Utilities, & Sub-Grade (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.02	8.83	9.77	0.02	0.31	—	0.31	0.28	—	0.28	—	2,545	2,545	0.10	0.02	—	2,554
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.94	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	272	272	0.01	< 0.005	—	273
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.0	45.0	< 0.005	< 0.005	—	45.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.65	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	146	146	< 0.005	0.01	0.01	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	16.0	16.0	< 0.005	< 0.005	0.03	16.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.00	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Linear, Drainage, Utilities, & Sub-Grade (2027) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.65	12.1	14.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,545	2,545	0.10	0.02	—	2,554
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	1.30	1.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	272	272	0.01	< 0.005	—	273
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.24	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.0	45.0	< 0.005	< 0.005	—	45.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.65	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	146	146	< 0.005	0.01	0.01	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	16.0	16.0	< 0.005	< 0.005	0.03	16.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.00	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Linear, Paving (2027) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.61	3.99	0.01	0.11	—	0.11	0.10	—	0.10	—	614	614	0.02	< 0.005	—	616
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.28	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	65.6	65.6	< 0.005	< 0.005	—	65.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.32	0.00	0.00	0.23	0.23	0.00	0.03	0.03	—	73.1	73.1	< 0.005	< 0.005	0.01	74.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	7.98	7.98	< 0.005	< 0.005	0.01	8.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.34
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Linear, Paving (2027) - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	3.19	4.31	0.01	0.02	—	0.02	0.02	—	0.02	—	614	614	0.02	< 0.005	—	616
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.34	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	65.6	65.6	< 0.005	< 0.005	—	65.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.9	10.9	< 0.005	< 0.005	—	10.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.32	0.00	0.00	0.23	0.23	0.00	0.03	0.03	—	73.1	73.1	< 0.005	< 0.005	0.01	74.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	7.98	7.98	< 0.005	< 0.005	0.01	8.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.34
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	TOG	ROG	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	7.00	26.0	—
Linear, Grading & Excavation	Linear, Grading & Excavation	7/27/2026	11/8/2026	7.00	105	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	2/8/2027	7.00	92.0	—
Linear, Paving	Linear, Paving	2/9/2027	3/19/2027	7.00	39.0	—

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
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43

Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Tier 3	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grubbing & Land Clearing	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Grading & Excavation	Crawler Tractors	Diesel	Tier 3	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Linear, Grading & Excavation	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74

Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Tier 3	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Tier 3	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82
Linear, Paving	Pavers	Diesel	Tier 3	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Tier 3	1.00	8.00	89.0	0.36
Linear, Paving	Signal Boards	Electric	Average	1.00	8.00	6.00	0.82

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	10.0	14.3	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	8.80	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	12.3	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	10.0	14.3	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	8.80	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.09	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	15.0	14.3	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	8.80	HHDT,MHDT

Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	7.50	14.3	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	8.80	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	10.0	14.3	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	8.80	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	12.3	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	10.0	14.3	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	8.80	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.09	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	15.0	14.3	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	8.80	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT

Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	7.50	14.3	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	8.80	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	0.00	0.00	0.00	1,284	—
Linear, Grading & Excavation	70.0	—	7.20	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Widening	7.20	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	88.1	204	0.03	< 0.005
2027	58.7	204	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Construction: Demolition	Construction demolition material movement based on project-specific information. Watering 2x/day based on Rule 223-1, Table 1.
Construction: Trips and VMT	—
Construction: Construction Phases	Based on project-specific information.
Construction: Dust From Material Movement	Construction material movement based on project-specific information. Watering 2x/day based on Rule 223-1, Table 1.
Characteristics: Utility Information	—
Construction: Electricity	—
Construction: Off-Road Equipment	Equipment list updated to account for overlap of Project Construction and Site Access and Roadway Improvements Construction.
Construction: On-Road Fugitive Dust	Percent paved roads updated based on Project-specific information.

APPENDIX A-5
CONSTRUCTION EMISSION CALCULATION TABLES

List of Tables

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Table A-4:	Estimating Unmitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 2
Table A-5:	Estimating Mitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 1
Table A-6:	Estimating Mitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 2

Table A-1. Criteria Air Pollutant Emission Factors for Concrete Truck Idling

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Concrete Truck Fleet Mix ¹	VOC Emission Factor ^{2,3} (grams/ idle-minute)	NO_x Emission Factor ² (grams/ idle-minute)	CO Emission Factor ² (grams/ idle-minute)	SO_x Emission Factor ² (grams/ idle-minute)	PM₁₀ Emission Factor ² (grams/ idle-minute)	PM_{2.5} Emission Factor ² (grams/ idle-minute)
HHDT	Diesel	100%	0.039	0.58	0.53	9.1E-04	6.2E-04	5.9E-04
Weighted Idling Emission Factor ⁴			0.039	0.58	0.53	9.1E-04	6.2E-04	5.9E-04

Notes:¹ Concrete trucks are conservatively assumed to be diesel-fueled HHDT.² Idling emission factors were obtained from the default EMFAC2021 project-level output for El Dorado (MC) sub-area in calendar year 2026.³ For purposes of this analysis VOC is assumed to be equal to ROG.⁴ Weighted average emission factors for concrete trucks are calculated as the sumproduct of the project specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.Abbreviations:

CO - carbon monoxide

EMFAC - Emission FACTors model

HHDT - Heavy Heavy-Duty Truck

MC - Mountain County

NO_x - nitrogen oxide compoundsPM_{2.5} - particulate matter less than 2.5 microns in diameterPM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table A-2. Maximum Daily Criteria Air Pollutant Emissions from Concrete Trucks during Project Construction

El Dorado Hills Costco Project

El Dorado Hills, California

Concrete Truck Activity	Number of Days of Concrete Truck Activity ¹ (days)	Daily Trips ¹ (round trips/day)	Idle Duration ¹ (minutes/round trip)	VOC Emissions ² (lbs/day)	NO _x Emissions (lbs/day)	CO Emissions (lbs/day)	SO _x Emissions (lbs/day)	PM ₁₀ Emissions (lbs/day)	PM _{2.5} Emissions (lbs/day)
Idling ³	8	52	60	0.27	4.0	3.7	0.0063	0.0043	0.0041
On-Road Travel ⁴	8	52	-	0.11	7.5	1.1	0.043	1.8	0.4
Total Emissions				0.38	12	4.7	0.049	1.8	0.4

Notes:¹ Based on Project-specific information.² For purposes of this analysis VOC is assumed to be equal to ROG.³ Idling emissions were estimated as a product of the emission factors from **Table A-1**, the idle duration per round trip, and the number of round trips per day.⁴ Obtained from the CalEEMod model run for concrete trucks in **Appendix A-3**.Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODEL

CO - carbon monoxide

NO_x - nitrogen oxide compoundsPM_{2.5} - particulate matter less than 2.5 microns in diameterPM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table A-3. Estimating Unmitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 1

El Dorado Hills Costco Project
El Dorado Hills, California

Overlapping Construction Phases ¹	Start Date	End Date	Number of Construction Days	Construction Time Period	Season ²	Daily VOC Emissions ^{3,4} (lbs/day)	Daily NO _x Emissions ³ (lbs/day)	Daily CO Emissions ³ (lbs/day)	Daily SO _x Emissions ^{3,5} (lbs/day)	Daily PM ₁₀ Emissions ^{3,6} (lbs/day)	Daily PM _{2.5} Emissions ^{3,6} (lbs/day)	Total VOC Emissions ^{4,7} (lbs)	Total NO _x Emissions ⁷ (lbs)	Total CO Emissions ⁷ (lbs)	Total SO _x Emissions ^{5,7} (lbs)	Total PM ₁₀ Emissions ^{6,7} (lbs)	Total PM _{2.5} Emissions ^{6,7} (lbs)
Site Preparation + Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26	First Quarter	Summer	3.8	35	35	0.07	3.5	1.7	98	909	913	1.7	91	43
Site Preparation + Linear, Grading & Excavation	7/27/2026	8/6/2026	11	First Quarter	Summer	3.8	33	35	0.06	2.6	1.5	42	368	384	0.6	28	17
Grading + Building Construction + Linear, Grading & Excavation	8/7/2026	9/30/2026	55	First Quarter	Summer	5.3	49	53	0.13	12	4.1	293	2686	2930	7.4	647	223
Grading + Building Construction + Linear, Grading & Excavation	10/1/2026	11/8/2026	39	Second Quarter	Winter	5.3	49	52	0.13	12	4.1	206	1928	2017	5.2	459	158
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	12/2/2026	24	Second Quarter	Winter	5.8	55	57	0.15	12	4.1	140	1311	1376	3.7	283	99
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade + Concrete Truck Activity	12/3/2026	12/10/2026	8	Second Quarter	Winter	6.2	66	62	0.20	14	4.5	50	529	497	1.6	109	36
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	12/11/2026	12/31/2026	21	Second Quarter	Winter	5.8	55	57	0.15	12	4.1	122	1147	1204	3.2	247	87
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	1/1/2027	1/27/2027	27	Third Quarter	Winter	5.6	51	57	0.15	12	4.0	152	1390	1527	4.1	314	108
Building Construction + Paving + Linear, Drainage, Utilities, & Sub-Grade	1/28/2027	2/8/2027	12	Third Quarter	Winter	3.7	28	38	0.07	5.6	1.6	44	331	461	0.8	67	19
Building Construction + Paving + Linear, Paving ⁸	2/9/2027	3/16/2027	36	Third Quarter	Winter	3.4	21	32	0.05	5.2	1.4	121	768	1164	1.9	186	49
Building Construction + Paving + Architectural Coating + Linear, Paving ⁸	3/17/2027	3/19/2027	3	Third Quarter	Winter	44	22	34	0.05	5.8	1.5	131	67	103	0.2	17	4.4
Building Construction + Paving + Architectural Coating	3/20/2027	3/31/2027	12	Third Quarter	Winter	43	20	30	0.05	5.4	1.3	516	235	360	0.6	65	16
Building Construction + Paving + Architectural Coating	4/1/2027	4/16/2027	16	Fourth Quarter	Summer	43	19	32	0.05	5.4	1.3	689	310	504	0.8	87	21
Building Construction + Architectural Coating	4/17/2027	5/17/2027	31	Fourth Quarter	Summer	42	12	21	0.03	4.7	1.0	1299	385	643	1.0	145	30

Notes:

- ¹ Overlapping construction phases were determined based on the proposed construction schedules shown in **Table 4-1** and **Table 4-2**. Additionally, as noted in **Table 4-5** concrete truck activity is expected to occur on eight days in December 2026 during the Building Construction phase.
- ² Based on CalEEMod defaults.
- ³ Estimated by summing up the maximum daily mitigated emissions for the overlapping construction phases. Maximum daily emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A-1**. Maximum daily emissions for the Linear, Grubbing & Land Clearing; Linear, Grading & Excavation; Linear, Drainage, Utilities, & Sub-Grade; and Linear, Paving construction phases are obtained from **Appendix A-4**. Maximum daily emissions for concrete truck activity is obtained from **Table A-2**.
- ⁴ For purposes of this analysis VOC emissions are assumed to be equal to ROG.
- ⁵ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.
- ⁶ Particulate matter emissions include exhaust emissions from off-road construction equipment, fugitive dust emissions from on-site construction activities, and exhaust/tire wear/brake wear/entrained road dust emissions from on-road vehicles associated with project construction. As noted in **Section 4.2.3**, fugitive dust emissions will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1. Particulate matter emissions presented here account for these control measures for fugitive dust emissions.
- ⁷ Estimated by multiplying the maximum daily emissions by the number of construction days for each overlapping construction phases.
- ⁸ The CalEEMod output for the Linear, Paving phase in the Site Access + Roadway Improvements construction did not account for VOC emissions from Paving. Hence, we have estimated this using CalEEMod methodology and included it in this emissions summary. The VOC emissions from Paving are estimated as 0.47 lbs/day, per the following equation: 2.62 lbs of VOC/acre paved * 7.2 acres paved * 100% paved areas / 39 work days.

Abbreviations:

- CO - carbon monoxide

CalEEMod - CALifornia Emissions Estimator MODEL

EDCAQMD - El Dorado County Air Quality Management District

lbs - pounds

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter
- PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table A-4. Estimating Unmitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 2

El Dorado Hills Costco Project
El Dorado Hills, California

Overlapping Construction Phases ¹	Start Date	End Date	Number of Construction Days	Construction Time Period	Season ²	Daily VOC Emissions ^{3,4} (lbs/day)	Daily NO _x Emissions ³ (lbs/day)	Daily CO Emissions ³ (lbs/day)	Daily SO _x Emissions ^{3,5} (lbs/day)	Daily PM ₁₀ Emissions ^{3,6} (lbs/day)	Daily PM _{2.5} Emissions ^{3,6} (lbs/day)	Total VOC Emissions ^{4,7} (lbs)	Total NO _x Emissions ⁷ (lbs)	Total CO Emissions ⁷ (lbs)	Total SO _x Emissions ^{5,7} (lbs)	Total PM ₁₀ Emissions ^{6,7} (lbs)	Total PM _{2.5} Emissions ^{6,7} (lbs)
Site Preparation + Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26	First Quarter	Summer	3.8	35	35	0.07	3.5	1.7	98	909	913	1.7	91	43
Site Preparation + Linear, Grading & Excavation	7/27/2026	8/6/2026	11	First Quarter	Summer	3.8	33	35	0.06	2.6	1.5	42	368	384	0.6	28	17
Grading + Building Construction + Linear, Grading & Excavation	8/7/2026	9/30/2026	55	First Quarter	Summer	5.5	59	54	0.20	15	4.7	301	3251	2992	11.2	815	257
Grading + Building Construction + Linear, Grading & Excavation	10/1/2026	11/8/2026	39	Second Quarter	Winter	5.4	60	53	0.20	15	4.7	211	2354	2062	7.9	578	182
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	12/2/2026	24	Second Quarter	Winter	6.0	66	58	0.22	15	4.8	143	1573	1404	5.3	356	114
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade + Concrete Truck Activity	12/3/2026	12/10/2026	8	Second Quarter	Winter	6.3	77	63	0.27	17	5.1	51	616	506	2.2	133	41
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	12/11/2026	12/31/2026	21	Second Quarter	Winter	6.0	66	58	0.22	15	4.8	125	1376	1228	4.7	312	100
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	1/1/2027	1/27/2027	27	Third Quarter	Winter	5.8	62	58	0.22	15	4.6	155	1669	1557	6.0	397	125
Building Construction + Paving + Linear, Drainage, Utilities, & Sub-Grade	1/28/2027	2/8/2027	12	Third Quarter	Winter	3.7	28	38	0.07	5.6	1.6	44	331	461	0.8	67	19
Building Construction + Paving + Linear, Paving ⁸	2/9/2027	3/16/2027	36	Third Quarter	Winter	3.4	21	32	0.05	5.2	1.4	121	768	1164	1.9	186	49
Building Construction + Paving + Architectural Coating + Linear, Paving ⁸	3/17/2027	3/19/2027	3	Third Quarter	Winter	44	22	34	0.05	5.8	1.5	131	67	103	0.2	17	4.4
Building Construction + Paving + Architectural Coating	3/20/2027	3/31/2027	12	Third Quarter	Winter	43	20	30	0.05	5.4	1.3	516	235	360	0.6	65	16
Building Construction + Paving + Architectural Coating	4/1/2027	4/16/2027	16	Fourth Quarter	Summer	43	19	32	0.05	5.4	1.3	689	310	504	0.8	87	21
Building Construction + Architectural Coating	4/17/2027	5/17/2027	31	Fourth Quarter	Summer	42	12	21	0.03	4.7	1.0	1299	385	643	1.0	145	30

Notes:

¹ Overlapping construction phases were determined based on the proposed construction schedules shown in **Table 4-1** and **Table 4-2**. Additionally, as noted in **Table 4-6** concrete truck activity is expected to occur on eight days in December 2026 during the Building Construction phase.

² Based on CalEEMod defaults.

³ Estimated by summing up the maximum daily mitigated emissions for the overlapping construction phases. Maximum daily emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A-2**. Maximum daily emissions for the Linear, Grubbing & Land Clearing; Linear, Grading & Excavation; Linear, Drainage, Utilities, & Sub-Grade; and Linear, Paving construction phases are obtained from **Appendix A-4**. Maximum daily emissions for concrete truck activity is obtained from **Table A-2**.

⁴ For purposes of this analysis VOC emissions are assumed to be equal to ROG.

⁵ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁶ Particulate matter emissions include exhaust emissions from off-road construction equipment, fugitive dust emissions from on-site construction activities, and exhaust/tire wear/brake wear/entrained road dust emissions from on-road vehicles associated with project construction. As noted in **Section 4.2.3**, fugitive dust emissions will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1. Particulate matter emissions presented here account for these control measures for fugitive dust emissions.

⁷ Estimated by multiplying the maximum daily emissions by the number of construction days for each overlapping construction phases.

⁸ The CalEEMod output for the Linear, Paving phase in the Site Access + Roadway Improvements construction did not account for VOC emissions from Paving. Hence, we have estimated this using CalEEMod methodology and included it in this emissions summary. The VOC emissions from Paving are estimated as 0.47 lbs/day, per the following equation: 2.62 lbs of VOC/acre paved * 7.2 acres paved * 100% paved areas / 39 work days.

Abbreviations:

CO - carbon monoxide
CalEEMod - CALifornia Emissions Estimator MODEL
EDCAQMD - El Dorado County Air Quality Management District
lbs - pounds
NOx - nitrogen oxide compounds
PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter
ROG - reactive organic gases
SO₂ - sulfur dioxide
SO_x - sulfur oxide compounds
VOC - volatile organic compounds

Table A-5. Estimating Mitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 1

El Dorado Hills Costco Project
El Dorado Hills, California

Overlapping Construction Phases ¹	Start Date	End Date	Number of Construction Days	Construction Time Period	Season ²	Daily VOC Emissions ^{3,4} (lbs/day)	Daily NO _x Emissions ³ (lbs/day)	Daily CO Emissions ³ (lbs/day)	Daily SO _x Emissions ^{3,5} (lbs/day)	Daily PM ₁₀ Emissions ^{3,6} (lbs/day)	Daily PM _{2.5} Emissions ^{3,6} (lbs/day)	Total VOC Emissions ^{4,7} (lbs)	Total NO _x Emissions ⁷ (lbs)	Total CO Emissions ⁷ (lbs)	Total SO _x Emissions ^{5,7} (lbs)	Total PM ₁₀ Emissions ^{6,7} (lbs)	Total PM _{2.5} Emissions ^{6,7} (lbs)
Site Preparation + Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26	First Quarter	Summer	1.3	29	35	0.07	2.2	0.5	34	760	899	1.7	58	13
Site Preparation + Linear, Grading & Excavation	7/27/2026	8/6/2026	11	First Quarter	Summer	1.3	28	34	0.06	1.3	0.4	15	305	378	0.6	14	3.9
Grading + Building Construction + Linear, Grading & Excavation	8/7/2026	9/30/2026	55	First Quarter	Summer	2.9	53	63	0.13	10	2.8	159	2923	3471	7.4	575	157
Grading + Building Construction + Linear, Grading & Excavation	10/1/2026	11/8/2026	39	Second Quarter	Winter	2.8	54	62	0.13	10	2.8	110	2096	2400	5.2	408	111
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	12/2/2026	24	Second Quarter	Winter	3.2	62	71	0.15	10	2.9	77	1496	1712	3.7	250	69
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade + Concrete Truck Activity	12/3/2026	12/10/2026	8	Second Quarter	Winter	3.6	74	76	0.20	12	3.3	29	591	608	1.6	98	26
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	12/11/2026	12/31/2026	21	Second Quarter	Winter	3.2	62	71	0.15	10	2.9	67	1309	1498	3.2	219	60
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	1/1/2027	1/27/2027	27	Third Quarter	Winter	3.1	62	71	0.15	10	2.9	85	1667	1914	4.1	281	77
Building Construction + Paving + Linear, Drainage, Utilities, & Sub-Grade	1/28/2027	2/8/2027	12	Third Quarter	Winter	2.6	35	45	0.07	5.0	1.0	31	418	543	0.8	60	12
Building Construction + Paving + Linear, Paving ⁸	2/9/2027	3/16/2027	36	Third Quarter	Winter	2.5	26	35	0.05	4.7	0.9	91	932	1271	1.9	168	32
Building Construction + Paving + Architectural Coating + Linear, Paving ⁸	3/17/2027	3/19/2027	3	Third Quarter	Winter	43	27	37	0.05	5.3	1.0	129	80	112	0.2	16	3.0
Building Construction + Paving + Architectural Coating	3/20/2027	3/31/2027	12	Third Quarter	Winter	42	24	33	0.05	5.0	0.9	508	283	392	0.6	60	11
Building Construction + Paving + Architectural Coating	4/1/2027	4/16/2027	16	Fourth Quarter	Summer	42	23	34	0.05	5.0	0.9	678	374	547	0.8	80	15
Building Construction + Architectural Coating	4/17/2027	5/17/2027	31	Fourth Quarter	Summer	41	15	23	0.03	4.4	0.8	1286	471	705	1.0	138	24

Notes:

¹ Overlapping construction phases were determined based on the proposed construction schedules shown in **Table 4-1** and **Table 4-2**. Additionally, as noted in **Table 4-5** concrete truck activity is expected to occur on eight days in December 2026 during the Building Construction phase.

² Based on CalEEMod defaults.

³ Estimated by summing up the maximum daily mitigated emissions for the overlapping construction phases. Maximum daily emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A-1**. Maximum daily emissions for the Linear, Grubbing & Land Clearing; Linear, Grading & Excavation; Linear, Drainage, Utilities, & Sub-Grade; and Linear, Paving construction phases are obtained from **Appendix A-4**. Maximum daily emissions for concrete truck activity is obtained from **Table A-2**.

⁴ For purposes of this analysis VOC emissions are assumed to be equal to ROG.

⁵ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁶ Particulate matter emissions include exhaust emissions from off-road construction equipment, fugitive dust emissions from on-site construction activities, and exhaust/tire wear/brake wear/entrained road dust emissions from on-road vehicles associated with project construction. As noted in **Section 4.2.3**, fugitive dust emissions will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1. Particulate matter emissions presented here account for these control measures for fugitive dust emissions.

⁷ Estimated by multiplying the maximum daily emissions by the number of construction days for each overlapping construction phases.

⁸ The CalEEMod output for the Linear, Paving phase in the Site Access + Roadway Improvements construction did not account for VOC emissions from Paving. Hence, we have estimated this using CalEEMod methodology and included it in this emissions summary. The VOC emissions from Paving are estimated as 0.47 lbs/day, per the following equation: 2.62 lbs of VOC/acre paved * 7.2 acres paved * 100% paved areas / 39 work days.

Abbreviations:

CO - carbon monoxide

CalEEMod - CALifornia Emissions Estimator MODel

EDCAQMD - El Dorado County Air Quality Management District

lbs - pounds

NOx - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table A-6. Estimating Mitigated Criteria Air Pollutant Emissions for Project Construction - Scenario 2

El Dorado Hills Costco Project
El Dorado Hills, California

Overlapping Construction Phases ¹	Start Date	End Date	Number of Construction Days	Construction Time Period	Season ²	Daily VOC Emissions ^{3,4} (lbs/day)	Daily NO _x Emissions ³ (lbs/day)	Daily CO Emissions ³ (lbs/day)	Daily SO _x Emissions ^{3,5} (lbs/day)	Daily PM ₁₀ Emissions ^{3,6} (lbs/day)	Daily PM _{2.5} Emissions ^{3,6} (lbs/day)	Total VOC Emissions ^{4,7} (lbs)	Total NO _x Emissions ⁷ (lbs)	Total CO Emissions ⁷ (lbs)	Total SO _x Emissions ^{5,7} (lbs)	Total PM ₁₀ Emissions ^{6,7} (lbs)	Total PM _{2.5} Emissions ^{6,7} (lbs)
Site Preparation + Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26	First Quarter	Summer	1.3	29	35	0.07	2.2	0.5	34	760	899	1.7	58	13
Site Preparation + Linear, Grading & Excavation	7/27/2026	8/6/2026	11	First Quarter	Summer	1.3	28	34	0.06	1.3	0.4	15	305	378	0.6	14	3.9
Grading + Building Construction + Linear, Grading & Excavation	8/7/2026	9/30/2026	55	First Quarter	Summer	3.0	63	64	0.20	14	3.5	167	3488	3532	11.2	743	190
Grading + Building Construction + Linear, Grading & Excavation	10/1/2026	11/8/2026	39	Second Quarter	Winter	3.0	65	63	0.20	14	3.5	116	2522	2445	7.9	527	135
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	12/2/2026	24	Second Quarter	Winter	3.3	73	72	0.22	13	3.5	80	1758	1739	5.3	324	84
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade + Concrete Truck Activity	12/3/2026	12/10/2026	8	Second Quarter	Winter	3.7	85	77	0.27	15	3.9	30	678	617	2.2	123	31
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	12/11/2026	12/31/2026	21	Second Quarter	Winter	3.3	73	72	0.22	13	3.5	70	1538	1522	4.7	283	73
Grading + Building Construction + Linear, Drainage, Utilities, & Sub-Grade	1/1/2027	1/27/2027	27	Third Quarter	Winter	3.3	72	72	0.22	13	3.5	88	1945	1944	6.0	364	94
Building Construction + Paving + Linear, Drainage, Utilities, & Sub-Grade	1/28/2027	2/8/2027	12	Third Quarter	Winter	2.6	35	45	0.07	5.0	1.0	31	418	543	0.8	60	12
Building Construction + Paving + Linear, Paving ⁸	2/9/2027	3/16/2027	36	Third Quarter	Winter	2.5	26	35	0.05	4.7	0.9	91	932	1271	1.9	168	32
Building Construction + Paving + Architectural Coating + Linear, Paving ⁸	3/17/2027	3/19/2027	3	Third Quarter	Winter	43	27	37	0.05	5.3	1.0	129	80	112	0.2	16	3.0
Building Construction + Paving + Architectural Coating	3/20/2027	3/31/2027	12	Third Quarter	Winter	42	24	33	0.05	5.0	0.9	508	283	392	0.6	60	11
Building Construction + Paving + Architectural Coating	4/1/2027	4/16/2027	16	Fourth Quarter	Summer	42	23	34	0.05	5.0	0.9	678	374	547	0.8	80	15
Building Construction + Architectural Coating	4/17/2027	5/17/2027	31	Fourth Quarter	Summer	41	15	23	0.03	4.4	0.8	1286	471	705	1.0	138	24

Notes:

¹ Overlapping construction phases were determined based on the proposed construction schedules shown in **Table 4-1** and **Table 4-2**. Additionally, as noted in **Table 4-6** concrete truck activity is expected to occur on eight days in December 2026 during the Building Construction phase.

² Based on CalEEMod defaults.

³ Estimated by summing up the maximum daily mitigated emissions for the overlapping construction phases. Maximum daily emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A-2**. Maximum daily emissions for the Linear, Grubbing & Land Clearing; Linear, Grading & Excavation; Linear, Drainage, Utilities, & Sub-Grade; and Linear, Paving construction phases are obtained from **Appendix A-4**. Maximum daily emissions for concrete truck activity is obtained from **Table A-2**.

⁴ For purposes of this analysis VOC emissions are assumed to be equal to ROG.

⁵ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁶ Particulate matter emissions include exhaust emissions from off-road construction equipment, fugitive dust emissions from on-site construction activities, and exhaust/tire wear/brake wear/entrained road dust emissions from on-road vehicles associated with project construction. As noted in **Section 4.2.3**, fugitive dust emissions will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1. Particulate matter emissions presented here account for these control measures for fugitive dust emissions.

⁷ Estimated by multiplying the maximum daily emissions by the number of construction days for each overlapping construction phases.

⁸ The CalEEMod output for the Linear, Paving phase in the Site Access + Roadway Improvements construction did not account for VOC emissions from Paving. Hence, we have estimated this using CalEEMod methodology and included it in this emissions summary. The VOC emissions from Paving are estimated as 0.47 lbs/day, per the following equation: 2.62 lbs of VOC/acre paved * 7.2 acres paved * 100% paved areas / 39 work days.

Abbreviations:

CO - carbon monoxide

CalEEMod - CALifornia Emissions Estimator MODEL

EDCAQMD - El Dorado County Air Quality Management District

lbs - pounds

NOx - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

APPENDIX B

EMISSION CALCULATIONS FOR PROJECT OPERATION

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APPENDIX B-1
CALEEMOD MODEL RUN FOR PROJECT OPERATION

EDH Costco Operation Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	EDH Costco Operation
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.659852, -121.056799
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	406
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Discount Club	165	1000sqft	3.79	165,000	318,349	—	—	—
Gasoline/Service Station	16.0	Pump	0.30	2,259	0.00	—	—	—

Enclosed Parking with Elevator	214	Space	2.30	100,000	0.00	—	—	—
Parking Lot	617	Space	8.58	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-4	Require Low-Flow Water Fixtures
Water	W-5	Design Water-Efficient Landscapes

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.76	5.49	2.77	14.0	0.01	0.17	0.00	0.17	0.17	0.00	0.17	411	990	1,401	41.4	0.09	0.79	2,462
Mit.	5.76	5.49	2.77	14.0	0.01	0.17	0.00	0.17	0.17	0.00	0.17	408	990	1,398	41.1	0.08	0.79	2,449
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	—	< 0.5%	1%	9%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.69	3.59	2.68	2.41	0.01	0.15	0.00	0.15	0.15	0.00	0.15	411	942	1,353	41.4	0.09	0.79	2,414
Mit.	3.69	3.59	2.68	2.41	0.01	0.15	0.00	0.15	0.15	0.00	0.15	408	942	1,350	41.1	0.08	0.79	2,401
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	—	< 0.5%	1%	9%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.93	3.82	0.74	6.34	< 0.005	0.06	0.00	0.06	0.05	0.00	0.05	411	603	1,014	41.4	0.08	0.79	2,074
Mit.	3.93	3.82	0.74	6.34	< 0.005	0.06	0.00	0.06	0.05	0.00	0.05	408	603	1,011	41.1	0.08	0.79	2,061
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	—	< 0.5%	1%	9%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.72	0.70	0.14	1.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	68.0	99.9	168	6.85	0.01	0.13	343
Mit.	0.72	0.70	0.14	1.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	67.5	99.9	167	6.80	0.01	0.13	341
% Reduced	—	—	—	—	—	—	—	—	—	—	—	1%	—	< 0.5%	1%	9%	—	1%

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	4.81	4.65	0.10	11.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.8	47.8	< 0.005	< 0.005	—	48.0
Energy	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.24	0.02	—	469
Water	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.45	0.06	—	102
Waste	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Stationary	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	66.2	66.2	—	—	—	66.2
Total	5.76	5.49	2.77	14.0	0.01	0.17	0.00	0.17	0.17	0.00	0.17	411	990	1,401	41.4	0.09	0.79	2,462
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.74	2.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.24	0.02	—	469
Water	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.45	0.06	—	102
Waste	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Stationary	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	66.2	66.2	—	—	—	66.2
Total	3.69	3.59	2.68	2.41	0.01	0.15	0.00	0.15	0.15	0.00	0.15	411	942	1,353	41.4	0.09	0.79	2,414
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.76	3.69	0.05	5.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.6	23.6	< 0.005	< 0.005	—	23.7
Energy	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.24	0.02	—	469
Water	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.45	0.06	—	102
Waste	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Stationary	0.12	0.11	0.31	0.29	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	57.5	57.5	< 0.005	< 0.005	0.00	57.7
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	66.2	66.2	—	—	—	66.2
Total	3.93	3.82	0.74	6.34	< 0.005	0.06	0.00	0.06	0.05	0.00	0.05	411	603	1,014	41.4	0.08	0.79	2,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.69	0.67	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.90	3.90	< 0.005	< 0.005	—	3.92
Energy	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.5	75.5	0.04	< 0.005	—	77.7
Water	—	—	—	—	—	—	—	—	—	—	—	3.94	0.00	3.94	0.41	0.01	—	17.0
Waste	—	—	—	—	—	—	—	—	—	—	—	64.1	0.00	64.1	6.41	0.00	—	224

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Stationary	0.02	0.02	0.06	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	9.52	9.52	< 0.005	< 0.005	0.00	9.55
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0	—	—	—	11.0
Total	0.72	0.70	0.14	1.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	68.0	99.9	168	6.85	0.01	0.13	343

2.6. Operations Emissions by Sector, Mitigated

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	4.81	4.65	0.10	11.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.8	47.8	< 0.005	< 0.005	—	48.0
Energy	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.24	0.02	—	469
Water	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.13	0.05	—	89.1
Waste	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Stationary	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	66.2	66.2	—	—	—	66.2
Total	5.76	5.49	2.77	14.0	0.01	0.17	0.00	0.17	0.17	0.00	0.17	408	990	1,398	41.1	0.08	0.79	2,449
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.74	2.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.24	0.02	—	469
Water	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.13	0.05	—	89.1

Waste	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Stationary	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	66.2	66.2	—	—	—	66.2
Total	3.69	3.59	2.68	2.41	0.01	0.15	0.00	0.15	0.15	0.00	0.15	408	942	1,350	41.1	0.08	0.79	2,401
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.76	3.69	0.05	5.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.6	23.6	< 0.005	< 0.005	—	23.7
Energy	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.24	0.02	—	469
Water	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.13	0.05	—	89.1
Waste	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Stationary	0.12	0.11	0.31	0.29	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	57.5	57.5	< 0.005	< 0.005	0.00	57.7
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	66.2	66.2	—	—	—	66.2
Total	3.93	3.82	0.74	6.34	< 0.005	0.06	0.00	0.06	0.05	0.00	0.05	408	603	1,011	41.1	0.08	0.79	2,061
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.69	0.67	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.90	3.90	< 0.005	< 0.005	—	3.92
Energy	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.5	75.5	0.04	< 0.005	—	77.7
Water	—	—	—	—	—	—	—	—	—	—	—	3.43	0.00	3.43	0.35	0.01	—	14.8
Waste	—	—	—	—	—	—	—	—	—	—	—	64.1	0.00	64.1	6.41	0.00	—	224
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Stationary	0.02	0.02	0.06	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	9.52	9.52	< 0.005	< 0.005	0.00	9.55
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0	—	—	—	11.0

Total	0.72	0.70	0.14	1.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	67.5	99.9	167	6.80	0.01	0.13	341

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.13	0.02	—	7.94
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.27
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	2.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	1.81
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.20	0.02	—	12.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.13	0.02	—	7.94
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.27
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	2.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	1.81
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.20	0.02	—	12.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.02	< 0.005	—	1.32
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.04
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.01	< 0.005	—	0.34
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.30
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	2.00

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.13	0.02	—	7.94
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.27
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	2.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	1.81
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.20	0.02	—	12.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.13	0.02	—	7.94
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.27
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	2.04
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	1.81
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.20	0.02	—	12.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.02	< 0.005	—	1.32
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.04
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.01	< 0.005	—	0.34
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	< 0.005	< 0.005	—	0.30
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.03	< 0.005	—	2.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.5	75.5	0.01	< 0.005	—	75.7
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.5	75.5	0.01	< 0.005	—	75.7

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.04	0.02	0.38	0.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	456	456	0.04	< 0.005	—	457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Discount Club	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.5	75.5	0.01	< 0.005	—	75.7
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	75.5	75.5	0.01	< 0.005	—	75.7

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	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.68	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.07	1.91	0.10	11.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.8	47.8	< 0.005	< 0.005	—	48.0
Total	4.81	4.65	0.10	11.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.8	47.8	< 0.005	< 0.005	—	48.0

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.68	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.74	2.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.38	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.19	0.17	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.90	3.90	< 0.005	< 0.005	—	3.92
Total	0.69	0.67	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.90	3.90	< 0.005	< 0.005	—	3.92

4.3.2. Mitigated

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	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.68	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.07	1.91	0.10	11.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.8	47.8	< 0.005	< 0.005	—	48.0
Total	4.81	4.65	0.10	11.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.8	47.8	< 0.005	< 0.005	—	48.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.68	0.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.74	2.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.38	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.19	0.17	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.90	3.90	< 0.005	< 0.005	—	3.92

Total	0.69	0.67	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.90	3.90	< 0.005	< 0.005	—	3.92

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	23.4	0.00	23.4	2.41	0.06	—	101
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.41	0.00	0.41	0.04	< 0.005	—	1.75
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.45	0.06	—	102
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	23.4	0.00	23.4	2.41	0.06	—	101
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.41	0.00	0.41	0.04	< 0.005	—	1.75

Enclosed	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.45	0.06	—	102
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	3.88	0.00	3.88	0.40	0.01	—	16.7
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.07	0.00	0.07	0.01	< 0.005	—	0.29
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.94	0.00	3.94	0.41	0.01	—	17.0

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	20.3	0.00	20.3	2.09	0.05	—	87.4
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.41	0.00	0.41	0.04	< 0.005	—	1.75

Enclosed	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.13	0.05	—	89.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	20.3	0.00	20.3	2.09	0.05	—	87.4
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.41	0.00	0.41	0.04	< 0.005	—	1.75
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.7	0.00	20.7	2.13	0.05	—	89.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	3.37	0.00	3.37	0.35	0.01	—	14.5
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.07	0.00	0.07	0.01	< 0.005	—	0.29
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.43	0.00	3.43	0.35	0.01	—	14.8

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	382	0.00	382	38.2	0.00	—	1,338
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	4.65	0.00	4.65	0.46	0.00	—	16.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	382	0.00	382	38.2	0.00	—	1,338
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	4.65	0.00	4.65	0.46	0.00	—	16.3

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	63.3	0.00	63.3	6.33	0.00	—	222
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.77	0.00	0.77	0.08	0.00	—	2.69
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.1	0.00	64.1	6.41	0.00	—	224

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	382	0.00	382	38.2	0.00	—	1,338

Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	4.65	0.00	4.65	0.46	0.00	—	16.3
Enclose d Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	382	0.00	382	38.2	0.00	—	1,338
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	4.65	0.00	4.65	0.46	0.00	—	16.3
Enclose d Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	63.3	0.00	63.3	6.33	0.00	—	222
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.77	0.00	0.77	0.08	0.00	—	2.69

Enclosed	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	64.1	0.00	64.1	6.41	0.00	—	224

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.79	0.79
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Discount Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

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)

Equipm ent 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipm ent 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)

Equipm ent 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421

Total	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Total	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.02	0.02	0.06	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	9.52	9.52	< 0.005	< 0.005	0.00	9.55
Total	0.02	0.02	0.06	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	9.52	9.52	< 0.005	< 0.005	0.00	9.55

4.8.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Total	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421

Total	0.90	0.82	2.29	2.09	< 0.005	0.12	0.00	0.12	0.12	0.00	0.12	0.00	420	420	0.02	< 0.005	0.00	421
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.02	0.02	0.06	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	9.52	9.52	< 0.005	< 0.005	0.00	9.55
Total	0.02	0.02	0.06	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	9.52	9.52	< 0.005	< 0.005	0.00	9.55

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—	7.66	7.66	—	—	—	7.66
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	7.66	7.66	—	—	—	7.66

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	46.3	46.3	—	—	—	46.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—	—	7.66	7.66	—	—	—	7.66
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7.66	7.66	—	—	—	7.66

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	—	—	—	19.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

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
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	255,397	84,130	28,436

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Discount Club	1,437,492	0.00	0.0330	0.0040	1,423,224
Gasoline/Service Station	48,732	0.00	0.0330	0.0040	0.00
Enclosed Parking with Elevator	369,143	0.00	0.0330	0.0040	0.00
Parking Lot	327,400	0.00	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Discount Club	1,437,492	0.00	0.0330	0.0040	1,423,224
Gasoline/Service Station	48,732	0.00	0.0330	0.0040	0.00
Enclosed Parking with Elevator	369,143	0.00	0.0330	0.0040	0.00
Parking Lot	327,400	0.00	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)
Discount Club	12,221,966	3,416,445
Gasoline/Service Station	212,510	0.00
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Discount Club	10,608,667	1,022,923
Gasoline/Service Station	212,510	0.00
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Discount Club	710	—
Gasoline/Service Station	8.62	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Discount Club	710	—
Gasoline/Service Station	8.62	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	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
Discount Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Discount Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Discount Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Discount Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	2.00	1.00	50.0	250	0.73

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
Other	Inceptisols	15.0	7.31
Urban	Inceptisols	0.00	7.66

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
Other	Inceptisols	15.0	7.31
Urban	Inceptisols	0.00	7.66

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Grassland	15.0	7.31
Urban	0.00	7.66

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
Grassland	15.0	7.31

Urban	0.00	7.66

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Land Use	Project-specific information was provided by the Project Applicant.
Characteristics: Utility Information	CO2 emission factor estimated based upon Project-specific information.
Operations: Energy Use	Updated based on project-specific information, refer to report for further details.
Operations: Consumer Products	Updated based on county specific data, refer to report for further details.
Operations: Architectural Coatings	Updated the VOC emission factor based on EDCAPCD Rule 215 Limits.

APPENDIX B-2
EMISSION CALCULATION TABLES FOR PROJECT OPERATION

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Table B-1. Operational Mobile Sources Activity Data

El Dorado Hills Costco Project
El Dorado Hills, California

Trip Type	Average One-Way Trip Length (miles)	Weekday Daily Trips (one-way trips/day)	Weekend Daily Trips (one-way trips/day)	Weekday Daily VMT (miles/day)	Weekend Daily VMT (miles/day)	Weekday Daily Idle Duration (minutes/day)	Weekend Daily Idle Duration (minutes/day)	Daily TRU Operational Duration (minutes/day)
GDF Customer Vehicles (Passenger Vehicles) ^{1,2}	-	5,779	6,442	2,909	3,300	-	-	-
Warehouse and Employee Vehicles (Passenger Vehicles) ^{1,3}	-	8,950	9,907	18,214	20,146	-	-	-
Passenger Vehicles Idling at GDF ⁴	-	-	-	-	-	6,551	9,115	-
Fuel Delivery Trucks ⁵	19	10	10	190	190	75	75	-
Warehouse and Tire Center Delivery Trucks ³	90	26	26	2,340	2,340	195	195	-
TRUs for Warehouse Delivery Trucks ⁶	-	-	-	-	-	-	-	1,132

Notes:

¹ Weekday passenger vehicle trip and VMT information were obtained from the El Dorado Costco CEQA Analysis, dated July 23, 2025. Weekend passenger trip and VMT information were provided by Kittelson and Associates.

² GDF customer vehicles represent vehicles used by the patrons of the fuel station.

³ Warehouse and employee vehicles represent vehicles used by patrons of the warehouse and employee vehicles.

⁴ Idle duration for passenger vehicles visiting the gas station was provided by Kittelson & Associates.

⁵ Trip lengths and trip rates for delivery trucks are based on Project-specific information. The daily VMT is estimated as a product of trip length and daily trips. The daily idle duration for delivery trucks is estimated as a product of idle duration per round trip and daily round trips. The idle duration per round trip is assumed to be 15 minutes (maximum 5 minutes at project site entry, maximum 5 minutes at the fuel tank and maximum 5 minutes at project site exit), consistent with the CARB Air Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Available at: <https://ww2.arb.ca.gov/our-work/programs/atcm-to-limit-vehicle-idling/about>. Accessed: March 2025.

⁶ Daily TRU operational duration is estimated based on total operational time per TRU and the number of TRUs per day, as provided in the TRU Trip Information below.

⁷ The on-site TRU operational time during truck idling is assumed to be 15 minutes as described above in footnote 5. Note, the TRUs are not expected to idle for more than 5 minutes at the dock while unloading goods at the warehouse.

⁸ The on-site warehouse delivery truck travel distance was estimated based on the proposed Project site layout. The off-site warehouse delivery truck travel distance was calculated by subtracting the on-site travel distance from the total trip length for the warehouse delivery truck.

⁹ The on-site and off-site average truck travel speed are consistent with CARB's assumptions in Appendix I of the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: March 2025.

¹⁰ The on-site and off-site TRU operational time during warehouse delivery truck travel was calculated by dividing the on-site and off-site truck travel distances by their corresponding average truck travel speeds, respectively.

¹¹ The total operational time per TRU includes the operational time during on-site and off-site truck travel and on-site truck idling.

¹² The number of TRUs per day is based on Project-specific information. The total number of TRU uses per year was estimated by multiplying the daily number of TRUs by 365 operational days per year.

TRU Trip Information:

On-Site Operational Time During Truck Idling ⁷	15 minutes/round trip per TRU
On-Site Truck Travel Distance ⁸	0.2 miles/round trip
On-Site Average Truck Travel Speed ⁹	5 miles/hour
On-Site Operational Time During Truck Travel ¹⁰	2.9 minutes/round trip per TRU
Off-Site Truck Travel Distance ⁸	179.8 miles/round trip
Off-Site Average Truck Travel Speed ⁹	30 miles/hour
Off-Site Operational Time During Truck Travel ¹⁰	360 minutes/round trip per TRU
Total Operational Time ¹¹	377.4 minutes/TRU
Number of TRUs ¹²	3 TRUs/day
Number of TRUs ¹²	1,095 TRUs/year

Abbreviations:

ATCM - Airborne Toxic Control Measure	GDF - gasoline dispensing facility
CARB - California Air Resources Board	TRU - transport refrigeration unit
CEQA - California Environmental Quality Act	VMT - vehicle miles traveled

Table B-2. Passenger Vehicle Fleet Mix for El Dorado County

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	CalEEMod Default Fleet Mix ¹	Passenger Vehicle Fleet Mix ²
LDA	37.9%	43.7%
LDT1	5.2%	6.0%
LDT2	26.3%	30.4%
MDV	17.3%	19.9%
LHDT1	5.4%	-
LHDT2	1.3%	-
MHDT	1.6%	-
HHDT	0.4%	-
OBUS	0.1%	-
UBUS	0.0%	-
MCY	3.6%	-
SBUS	0.1%	-
MH	0.8%	-

Notes:¹ CalEEMod default for El Dorado (MC) sub-area, calendar year 2027.² Estimated using the CalEEMod default fleet mix for El Dorado County. EMFAC vehicle categories that represent passenger vehicles include LDA, LDT1, LDT2, and MDV.Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODeI

EMFAC - EMIssion FACtors model

HHDT - Heavy heavy-duty truck

LDA - light duty automobiles

LDT - light-duty trucks

LHDT - light heavy-duty trucks

MC - Mountain County

MCY - motorcycles

MDV - medium-duty vehicle

MH - motor homes

MHDT - medium heavy-duty trucks

OBUS - other buses

SBUS - school buses

UBUS - urban buses

**Table B-3. Passenger Vehicle Fleet Mix for the Proposed Project
by Vehicle Category and Fuel Type**

El Dorado Hills Costco Project
El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	EMFAC VMT Output ¹ (miles/day)	Project-Specific Vehicle Fleet Mix for Passenger Vehicles Visiting the GDF ²	Project-Specific Vehicle Fleet Mix for Warehouse and Employee Passenger Vehicles ³
LDA	Gasoline	1,619,691	41.98%	38.43%
LDA	Plug-in Hybrid	66,445	1.72%	1.58%
LDA	Electricity	150,587	-	3.57%
LDA	Diesel	5,444	-	0.13%
LDT1	Gasoline	181,944	5.96%	5.93%
LDT1	Plug-in Hybrid	658	0.02%	0.02%
LDT1	Electricity	816	-	0.03%
LDT1	Diesel	16	-	0.00%
LDT2	Gasoline	1,158,122	30.00%	29.64%
LDT2	Plug-in Hybrid	14,398	0.37%	0.37%
LDT2	Electricity	9,343	-	0.24%
LDT2	Diesel	4,897	-	0.13%
MDV	Gasoline	662,071	19.68%	18.97%
MDV	Plug-in Hybrid	8,766	0.26%	0.25%
MDV	Electricity	9,787	-	0.28%
MDV	Diesel	15,203	-	0.44%

Notes:

¹ Default EMFAC2021 output for the El Dorado (MC) sub-area in calendar year 2027.

² The Project-specific vehicle fleet mix for passenger vehicles visiting the GDF represents vehicles used by patrons of the fuel station; they are conservatively assumed to be plug-in hybrids and gasoline-fueled vehicles only. The fleet mix is estimated by apportioning the passenger vehicle fleet mix for El Dorado County (**Table B-2**) into the project specific fuel types (gasoline and plug-in hybrid) within each passenger vehicle EMFAC vehicle class (LDA, LDT1, LDT2, and MDV) using the default EMFAC VMT output for those fuel types.

³ The Project-specific vehicle fleet mix for warehouse and employee passenger vehicles represents the vehicles used by patrons and employees of the warehouse. The fleet mix is estimated by apportioning the passenger vehicle fleet mix for El Dorado County (**Table B-2**) within each passenger vehicle EMFAC vehicle class (LDA, LDT1, LDT2, and MDV) using the default EMFAC VMT output for the default fuel types (gasoline, plug-in hybrid, electricity, and diesel).

Abbreviations:

EMFAC - Emission FACtors model
GDF - gasoline dispensing facility
LDA - light duty automobiles
LDT - light-duty trucks
MC - Mountain County
MDV - medium-duty vehicle
VMT - vehicle miles traveled

Table B-4. Operational Mobile Source CAP Emission Factors for Passenger Vehicles Visiting the Gasoline Dispensing Facility - Running Exhaust, Running Loss, Tire Wear, and Brake Wear

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (g/mi)	NO _x Emission Factor ² (g/mi)	CO Emission Factor ² (g/mi)	SO _x Emission Factor ² (g/mi)	PM ₁₀ Emission Factor ² (g/mi)	PM _{2.5} Emission Factor ² (g/mi)
LDA	Gasoline	42.0%	0.0068	0.033	0.67	0.0026	0.017	0.0059
LDA	Plug-in Hybrid	1.7%	0.0014	0.0033	0.22	0.0013	0.013	0.0039
LDT1	Gasoline	6.0%	0.027	0.12	1.4	0.0033	0.020	0.0072
LDT1	Plug-in Hybrid	0.022%	0.0013	0.0030	0.20	0.0012	0.012	0.0038
LDT2	Gasoline	30.0%	0.0093	0.055	0.81	0.0033	0.019	0.0065
LDT2	Plug-in Hybrid	0.37%	0.0014	0.0032	0.21	0.0013	0.013	0.0038
MDV	Gasoline	19.7%	0.013	0.078	0.92	0.0040	0.019	0.0066
MDV	Plug-in Hybrid	0.26%	0.0014	0.0032	0.22	0.0013	0.013	0.0039
Weighted Average Emission Factor ⁴			0.010	0.053	0.80	0.0031	0.018	0.0063

Notes:

¹ The Project-specific fleet mix for passenger vehicles visiting the GDF are obtained from **Table B-3**.

² Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 output for El Dorado (MC) sub-area calendar year 2027. For VOC, NO_x, CO, and SO_x this table provides the running exhaust emission factors. For PM₁₀ and PM_{2.5} a sum of running exhaust, tire wear, and break wear emission factors are provided.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for passenger vehicles visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - EMISSION FACTORS model

g/mi - grams per mile

GDF - gasoline dispensing facility

LDA - Light-Duty Automobile

LDT - Light-Duty Truck

MC - Mountain County

MDV - Medium-Duty Vehicle

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-5. Operational Mobile Source CAP Emission Factors for Warehouse and Employee Passenger Vehicles - Running Exhaust, Running Loss, Tire Wear, and Brake Wear

El Dorado Hills Costco Project
El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (g/mi)	NO _x Emission Factor ² (g/mi)	CO Emission Factor ² (g/mi)	SO _x Emission Factor ² (g/mi)	PM ₁₀ Emission Factor ² (g/mi)	PM _{2.5} Emission Factor ² (g/mi)
LDA	Gasoline	38.4%	0.0068	0.033	0.67	0.0026	0.017	0.0059
LDA	Plug-in Hybrid	1.6%	0.0014	0.003	0.22	0.0013	0.013	0.0039
LDA	Electricity	3.6%	0.0000	0.000	0.00	0.0000	0.012	0.0035
LDA	Diesel	0.1%	0.0253	0.216	0.37	0.0022	0.030	0.0176
LDT1	Gasoline	5.9%	0.0266	0.121	1.44	0.0033	0.020	0.0072
LDT1	Plug-in Hybrid	0.0%	0.0013	0.003	0.20	0.0012	0.012	0.0038
LDT1	Electricity	0.0%	0.0000	0.000	0.00	0.0000	0.012	0.0035
LDT1	Diesel	0.0%	0.2596	1.348	1.77	0.0038	0.242	0.2192
LDT2	Gasoline	29.6%	0.0093	0.055	0.81	0.0033	0.019	0.0065
LDT2	Plug-in Hybrid	0.4%	0.0014	0.003	0.21	0.0013	0.013	0.0038
LDT2	Electricity	0.2%	0.0000	0.000	0.00	0.0000	0.012	0.0035
LDT2	Diesel	0.1%	0.0154	0.040	0.16	0.0029	0.022	0.0100
MDV	Gasoline	19.0%	0.0133	0.078	0.92	0.0040	0.019	0.0066
MDV	Plug-in Hybrid	0.3%	0.0014	0.003	0.22	0.0013	0.013	0.0039
MDV	Electricity	0.3%	0.0000	0.000	0.00	0.0000	0.012	0.0035
MDV	Diesel	0.4%	0.0137	0.044	0.26	0.0039	0.024	0.0108
Weighted Average Emission Factor ⁴			0.010	0.052	0.77	0.0030	0.018	0.0062

Notes:

¹ The Project-specific fleet mix for warehouse and employee passenger vehicles are obtained from **Table B-3**.

² Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 output for El Dorado (MC) sub-area calendar year 2027. For VOC, NO_x, CO, and SO_x this table provides the running exhaust emission factors. For PM₁₀ and PM_{2.5} a sum of running exhaust, tire wear, and break wear emission factors are provided.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for passenger vehicles visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant
CO - carbon monoxide
EMFAC - Emission FACTors model
g/mi - grams per mile
LDA - Light-Duty Automobile

LDT - Light-Duty Truck
MC - Mountain County
MDV - Medium-Duty Vehicle
NO_x - nitrogen oxide compounds
PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter
ROG - reactive organic gases
SO_x - sulfur oxide compounds
VOC - volatile organic compounds

Table B-6. Operational Mobile Source CAP Emission Factors for Delivery Trucks - Running Exhaust, Running Loss, Tire Wear, and Brake Wear

El Dorado Hills Costco Project
El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (g/mi)	NO_x Emission Factor ² (g/mi)	CO Emission Factor ² (g/mi)	SO_x Emission Factor ² (g/mi)	PM₁₀ Emission Factor ² (g/mi)	PM_{2.5} Emission Factor ² (g/mi)
HHDT	Diesel	100.0%	0.029	2.8	0.13	0.019	0.15	0.061
Weighted Average Emission Factor ⁴			0.029	2.8	0.13	0.019	0.15	0.061

Notes:

¹ Delivery trucks are assumed to be diesel-fueled heavy heavy duty trucks.

² Emission factors were obtained from the default EMFAC2021 output for El Dorado (MC) sub-area calendar year 2027. For VOC, NO_x, CO, and SO_x this table provides the running exhaust emission factors. For PM₁₀ and PM_{2.5} a sum of running exhaust, tire wear, and break wear emission factors are provided.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for delivery trucks visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - Emission FACTors model

g/mi - grams per mile

HHDT - Heavy Heavy-Duty Truck

MC - Mountain County

NO_x - nitrogen oxide compounds

PM_{2.5} - particulate matter less than 2.5 microns in diameter

PM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-7. Operational Mobile Source CAP Emission Factors for Passenger Vehicles Visiting the Gasoline Dispensing Facility - Starting Exhaust, Hot Soak, Diurnal, and Running Loss

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (g/trip)	NO _x Emission Factor ² (g/trip)	CO Emission Factor ² (g/trip)	SO _x Emission Factor ² (g/trip)	PM ₁₀ Emission Factor ² (g/trip)	PM _{2.5} Emission Factor ² (g/trip)
LDA	Gasoline	42.0%	0.89	0.23	2.9	6.5E-04	0.0019	0.0017
LDA	Plug-in Hybrid	1.7%	0.36	0.12	1.4	6.1E-04	0.0018	0.0017
LDT1	Gasoline	6.0%	2.4	0.46	6.6	8.8E-04	0.0032	0.0030
LDT1	Plug-in Hybrid	0.022%	0.29	0.12	1.4	6.5E-04	0.0013	0.0012
LDT2	Gasoline	30.0%	1.1	0.33	3.6	8.3E-04	0.0020	0.0019
LDT2	Plug-in Hybrid	0.37%	0.31	0.12	1.4	7.2E-04	0.0016	0.0015
MDV	Gasoline	19.7%	1.5	0.43	4.3	0.0010	0.0022	0.0020
MDV	Plug-in Hybrid	0.26%	0.33	0.12	1.4	8.9E-04	0.0019	0.0017
Weighted Average Emission Factor ⁴			1.2	0.31	3.6	7.9E-04	0.0021	0.0019

Notes:

¹ The Project-specific fleet mix for passenger vehicles visiting the GDF are obtained from **Table B-3**.

² Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 output for El Dorado (MC) sub-area calendar year 2027. For NO_x, CO, SO_x, PM₁₀, and PM_{2.5} this table provides the starting exhaust emission factors. For VOC a sum of starting exhaust, hot soak, diurnal, and running loss emission factors are provided.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for passenger vehicles visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - Emission FACTors model

g - gram

GDF - gasoline dispensing facility

LDA - Light-Duty Automobile

LDT - Light-Duty Truck

MC - Mountain County

MDV - Medium-Duty Vehicle

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-8. Operational Mobile Source CAP Emission Factors for Warehouse and Employee Passenger Vehicles - Starting Exhaust, Hot Soak, Diurnal, and Running Loss

El Dorado Hills Costco Project
El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (g/trip)	NO _x Emission Factor ² (g/trip)	CO Emission Factor ² (g/trip)	SO _x Emission Factor ² (g/trip)	PM ₁₀ Emission Factor ² (g/trip)	PM _{2.5} Emission Factor ² (g/trip)
LDA	Gasoline	38.4%	0.89	0.23	2.9	6.5E-04	0.0019	0.0017
LDA	Plug-in Hybrid	1.6%	0.36	0.12	1.4	6.1E-04	0.0018	0.0017
LDA	Electricity	3.6%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
LDA	Diesel	0.1%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
LDT1	Gasoline	5.9%	2.44	0.46	6.6	8.8E-04	0.0032	0.0030
LDT1	Plug-in Hybrid	0.0%	0.29	0.12	1.4	6.5E-04	0.0013	0.0012
LDT1	Electricity	0.0%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
LDT1	Diesel	0.0%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
LDT2	Gasoline	29.6%	1.12	0.33	3.6	8.3E-04	0.0020	0.0019
LDT2	Plug-in Hybrid	0.4%	0.31	0.12	1.4	7.2E-04	0.0016	0.0015
LDT2	Electricity	0.2%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
LDT2	Diesel	0.1%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
MDV	Gasoline	19.0%	1.51	0.43	4.3	1.0E-03	0.0022	0.0020
MDV	Plug-in Hybrid	0.3%	0.33	0.12	1.4	8.9E-04	0.0019	0.0017
MDV	Electricity	0.3%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
MDV	Diesel	0.4%	0.00	0.00	0.0	0.0E+00	0.0000	0.0000
Weighted Average Emission Factor ⁴			1.1	0.30	3.4	7.6E-04	0.0020	0.0018

Notes:

¹ The Project-specific fleet mix for warehouse and employee passenger vehicles are obtained from **Table B-3**.

² Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 output for El Dorado (MC) sub-area calendar year 2027. For NO_x, CO, SO_x, PM₁₀, and PM_{2.5} this table provides the starting exhaust emission factors. For VOC a sum of starting exhaust, hot soak, diurnal, running loss emission factors are provided.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for passenger vehicles visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant
CO - carbon monoxide
EMFAC - Emission FACTors model
g - gram
LDA - Light-Duty Automobile

LDT - Light-Duty Truck
MC - Mountain County
MDV - Medium-Duty Vehicle
NO_x - nitrogen oxide compounds
PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter
ROG - reactive organic gases
SO_x - sulfur oxide compounds
VOC - volatile organic compounds

Table B-9. Operational Mobile Source CAP Emission Factors for Delivery Trucks - Starting Exhaust, Hot Soak, Diurnal and Running Loss

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (g/trip)	NO_x Emission Factor ² (g/trip)	CO Emission Factor ² (g/trip)	SO_x Emission Factor ² (g/trip)	PM₁₀ Emission Factor ² (g/trip)	PM_{2.5} Emission Factor ² (g/trip)
HHDT	Diesel	100.0%	0	3.4	0	0	0	0
Weighted Average Emission Factor ⁴			0	3.4	0	0	0	0

Notes:

¹ Delivery trucks are assumed to be diesel-fueled heavy heavy duty trucks.

² Emission factors were obtained from the default EMFAC2021 output for El Dorado (MC) sub-area calendar year 2027. For NO_x, CO, SO_x, PM₁₀, and PM_{2.5} this table provides the starting exhaust emission factors. For VOC a sum of starting exhaust, hot soak, diurnal, and running loss emission factors are provided.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for delivery trucks visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - EMIssion FACtors model

g - gram

HHDT - Heavy Heavy-Duty Truck

MC - Mountain County

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-10. Operational Mobile Source CAP Emission Factors for Passenger Vehicles Visiting the GDF - Idling

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (grams/ idle-minute)	NO_x Emission Factor ² (grams/ idle-minute)	CO Emission Factor ² (grams/ idle-minute)	SO_x Emission Factor ² (grams/ idle-minute)	PM₁₀ Emission Factor ² (grams/ idle-minute)	PM_{2.5} Emission Factor ² (grams/ idle-minute)
LDA	Gasoline	42.0%	0.0018	0.0026	0.047	2.5E-04	3.3E-04	3.1E-04
LDA	Plug-in Hybrid	1.7%	5.0E-04	5.2E-04	0.037	1.5E-04	1.5E-04	1.4E-04
LDT1	Gasoline	6.0%	0.0067	0.010	0.10	3.1E-04	5.0E-04	4.6E-04
LDT1	Plug-in Hybrid	0.0%	4.6E-04	4.7E-04	0.034	1.4E-04	1.0E-04	9.4E-05
LDT2	Gasoline	30.0%	0.0025	0.0043	0.057	3.2E-04	3.6E-04	3.3E-04
LDT2	Plug-in Hybrid	0.4%	4.9E-04	5.0E-04	0.036	1.5E-04	1.3E-04	1.2E-04
MDV	Gasoline	19.7%	0.0035	0.0061	0.065	3.9E-04	3.7E-04	3.4E-04
MDV	Plug-in Hybrid	0.3%	4.9E-04	5.0E-04	0.036	1.5E-04	1.5E-04	1.4E-04
Weighted Emission Factor ⁴			0.0026	0.0041	0.057	3.0E-04	3.5E-04	3.3E-04

Notes:

¹ The project specific fleet mix for passenger vehicles visiting the GDF are obtained from **Table B-3**.

² Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado (MC) sub-area calendar year 2027. For EMFAC Vehicle Classes LDA, LDT1, LDT2, and MDV, the idling emission rates were estimated by multiplying the speed correction factor of 2.5 mph to the running exhaust emission rate in grams per mile at 5 mph.

³ For purposes of this analysis VOC is assumed to be equal to ROG.

⁴ Weighted average emission factors for passenger vehicles the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - EMISSION FACTORS model

GDF - gasoline dispensing facility

LDA - Light-Duty Automobile

LDT - Light-Duty Truck

MC - Mountain County

MDV - Medium-Duty Vehicle

mph - miles per hour

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-11. Operational Mobile Source CAP Emission Factors for Delivery Trucks - Idling

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	VOC Emission Factor ^{2,3} (grams/ idle-minute)	NO_x Emission Factor ² (grams/ idle-minute)	CO Emission Factor ² (grams/ idle-minute)	SO_x Emission Factor ² (grams/ idle-minute)	PM₁₀ Emission Factor ² (grams/ idle-minute)	PM_{2.5} Emission Factor ² (grams/ idle-minute)
HHDT	Diesel	100.0%	0.039	0.56	0.54	9.0E-04	5.6E-04	5.4E-04
Weighted Emission Factor ⁴			0.039	0.56	0.54	9.0E-04	5.6E-04	5.4E-04

Notes:¹ Delivery trucks are assumed to be diesel-fueled heavy heavy duty trucks.² Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado (MC) sub-area calendar year 2027.³ For purposes of this analysis VOC is assumed to be equal to ROG.⁴ Weighted average emission factors for delivery trucks visiting the Project site are calculated as the sumproduct of the Project-specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - Emission FACTors model

HHDT - Heavy Heavy-Duty Truck

MC - Mountain County

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-12. Entrained Road Dust Emission Factors for Operational Mobile Sources

El Dorado Hills Costco Project

El Dorado Hills, California

Mobile Source Activity Type	PM₁₀ Entrained Road Dust Emission Factor (lb/VMT)	PM_{2.5} Entrained Road Dust Emission Factor (lb/VMT)
Travel on Paved Roads ¹	6.62E-04	1.66E-04
Travel on Unpaved Roads ¹	7.44E-01	7.41E-02
Truck Travel ²	6.62E-04	1.66E-04
Passenger Vehicle Travel ³	1.41E-03	2.40E-04

Notes:

¹ Entrained road dust for paved and unpaved roads are CalEEMod default values for El Dorado County.

² 100% of on-road travel for fuel delivery trucks and warehouse and tire center delivery trucks would occur on paved roads.

³ Per project-specific information, 99.90% of project-related passenger vehicle travel is assumed to occur on paved roads and the remaining 0.10% is assumed to occur on unpaved roads.

Abbreviations:

CalEEMod - California Emissions Estimator Model

lb - pound

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

VMT - vehicle miles traveled

Table B-13. Operational Mobile Source CAP Emission Factors for Transport Refrigeration Units

El Dorado Hills Costco Project

El Dorado Hills, California

Transport Refrigeration Unit (TRU) Category	Fuel Type	Total Statewide Activity ¹ (hr/year)	VOC Emission Factor ^{1,2} (lbs/hr)	NO_x Emission Factor ¹ (lbs/hr)	CO Emission Factor ¹ (lbs/hr)	SO_x Emission Factor ¹ (lbs/hr)	PM₁₀ Emission Factor ¹ (lbs/hr)	PM_{2.5} Emission Factor ¹ (lbs/hr)
Transport Refrigeration Unit - Instate Trailer	Diesel	3,284	1.16E-02	9.03E-02	1.06E-02	1.50E-04	1.49E-03	1.37E-03
Transport Refrigeration Unit - Out-Of-State Trailer	Diesel	1,895	1.16E-02	9.25E-02	1.07E-02	1.44E-04	2.05E-03	1.89E-03
Weighted Average Emission Factor ³			1.16E-02	9.11E-02	1.06E-02	1.48E-04	1.70E-03	1.56E-03

Notes:¹ Total statewide activity and exhaust emission factors for TRUs were obtained from OFFROAD2021 emissions output for El Dorado (MC) sub-area calendar year 2027.² For purposes of this analysis VOC is assumed to be equal to ROG.³ The activity weighted average emission factors for TRUs servicing the proposed Project were calculated using the OFFROAD2021 emission factors and total activity for each individual TRU category.Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

hr - hour

lbs - pounds

MC - Mountain County

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO_x - sulfur oxide compounds

VOC - volatile organic compounds

Table B-14. Maximum Daily Criteria Air Pollutant Emission Estimates for Operational Mobile Sources

El Dorado Hills Costco Project
El Dorado Hills, California

Mobile Source Activity	Average One-Way Trip Length ¹ (mi)	Maximum Daily Trips ¹ (one-way trips/day)	Maximum Daily VMT ¹ (mi/day)	Maximum Daily Idle Duration ¹ (min/day)	Daily TRU Operational Duration ¹ (min/day)	VOC Emissions ² (lbs/day)	NO _x Emissions ³ (lbs/day)	CO Emissions ³ (lbs/day)	SO _x Emissions ³ (lbs/day)	PM ₁₀ Emissions ⁴ (lbs/day)	PM _{2.5} Emissions ⁴ (lbs/day)
GDF Customer Vehicles (Passenger Vehicles) ⁵	-	6,442	3,300	-	-	17	4.8	56	0.03	4.8	0.9
Warehouse and Employee Vehicles (Passenger Vehicles) ⁵	-	9,907	20,146	-	-	24.69	8.84	108.67	0.15	29.17	5.14
Passenger Vehicle Idling at GDF	-	-	-	9,115	-	0.053	0.083	1.1	0.0060	0.0071	0.0065
Fuel Delivery Trucks ⁶	19	10	190	75	-	0.019	1.3	0.14	0.0079	0.19	0.057
Warehouse and Tire Center Delivery Trucks ⁶	90	26	2,340	195	-	0.17	15	0.89	0.10	2.3	0.71
TRUs for Warehouse Delivery Trucks ⁷	-	-	-	-	1,132	0.22	1.7	0.20	0.0028	0.032	0.029
Total Emissions ⁸						42	31	168	0.30	37	6.8

Notes:

¹ Data obtained from **Table B-1**.

² VOC emissions for on-road vehicles include running exhaust, running loss, hot soak, diurnal, starting exhaust, and idling exhaust. These emissions were estimated using emission factors from **Tables B-4 through B-11** along with daily VMT, trips, and idle duration.

³ NO_x, CO, and SO_x emissions for on-road vehicles include running exhaust, starting exhaust, and idling exhaust. These emissions were estimated using emission factors from **Tables B-4 through B-11** along with daily VMT, trips, and idle

⁴ PM₁₀ and PM_{2.5} emissions from on-road vehicles include running exhaust, tire wear, brake wear, entrained road dust, starting exhaust, and idling exhaust. These emissions were estimated using emission factors from **Tables B-4 through B-12** along with daily VMT, trips, and idle duration.

⁵ Passenger vehicle trip emissions include travel emissions (running exhaust, tire wear, brake wear, and fugitive dust), evaporative emissions (running loss, hot soak, and diurnal) using the number of one-way trips, and starting exhaust using the number of one-way trips.

⁶ Delivery truck trip emissions include travel emissions (running exhaust, tire wear, brake wear, and fugitive dust), evaporative emissions (hot soak, running loss, and diurnal) using the number of one-way trips, starting exhaust emissions using the number of one-way trips, and idling exhaust using the number of round trips (i.e., half of the one-way trips).

⁷ TRU emissions were estimated using emission factors from **Table B-13** and the daily TRU operational duration.

⁸ Emissions totals may not add up due to rounding. Emissions shown as zero may be non-zero values; however, they are below a meaningful reporting level for this analysis.

Abbreviations:

CO - carbon monoxide

GDF - gasoline dispensing facility

lbs - pounds

mi - mile

min - minute

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

SO_x - sulfur oxide compounds

TRU - Transport Refrigeration Unit

VMT - vehicle miles traveled

VOC - volatile organic compounds

APPENDIX C
TOXIC AIR CONTAMINANT EMISSION CALCULATIONS
FOR THE HEALTH RISK ASSESSMENT

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Table C-1. Diesel Particulate Matter Emissions from Unmitigated Off-Road Construction Equipment

El Dorado Hills Costco Project

El Dorado Hills, California

Exposure Period for Construction Health Risk Assessment	Start Date for Exposure Period	End Date for Exposure Period	Construction Phase	Start Date for Construction Phase within Exposure Period	End Date for Construction Phase within Exposure Period	Construction Phase Duration within Exposure Period (days)	Exhaust PM ₁₀ Emissions from Construction Equipment ¹ (lbs)
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Site Preparation	7/1/2026	8/6/2026	37	46.0
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Grading	8/7/2026	9/29/2026	54	60.6
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Building Construction	8/7/2026	9/29/2026	54	20.4
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26	5.5
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Linear, Grading & Excavation	7/27/2026	9/29/2026	65	84.9
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Grading	9/30/2026	12/31/2026	93	104.3
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Grading	1/1/2027	1/27/2027	27	28.2
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Building Construction	9/30/2026	12/31/2026	93	35.2
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Building Construction	1/1/2027	5/17/2027	137	46.1
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Paving	1/28/2027	4/16/2027	79	23.6
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Architectural Coating	3/17/2027	5/17/2027	62	1.2
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Grading & Excavation	9/30/2026	11/8/2026	40	52.3
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	12/31/2026	53	32.8
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Drainage, Utilities, & Sub-Grade	1/1/2027	2/8/2027	39	22.1
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Paving	2/9/2027	3/19/2027	39	10.7
Total DPM Emissions ² for Unmitigated Off-road Construction Equipment (Source Group CONEQ) in the Third Trimester Exposure Period (lbs)							217.4
Total DPM Emissions ² for Unmitigated Off-road Construction Equipment (Source Group CONEQ) in the 0-2 Year Age Bin Exposure Period (lbs)							356.2

Notes:

¹ Unmitigated emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A-2**. Unmitigated emissions for the Linear, Grubbing & Land Clearing; Linear, Grading & Excavation; Linear, Drainage, Utilities, & Sub-Grade; and Linear, Paving construction phases are obtained from **Appendix A-4**. Emissions for construction phases that occur in multiple exposure periods are apportioned based on construction phase duration within each exposure period.

² For purposes of this analysis, DPM emissions are assumed to be equal to PM₁₀ exhaust emissions.

Abbreviations:

DPM - Diesel Particulate Matter

lbs - pounds

PM₁₀ - particulate matter less than 10 microns in diameter

Table C-2. Diesel Particulate Matter Emissions from Construction Trucks (Hauling and Vendor)

El Dorado Hills Costco Project
El Dorado Hills, California

AERMOD Source Group ID ¹	Exposure Period	Segment Length ² (miles)	Haul Truck One-Way Trips ³	Haul Truck VMT ⁴ (miles)	Haul Truck DPM Emissions ⁵ (lbs)	Vendor Truck One-Way Trips ³	Vendor Truck VMT ⁴ (miles)	Vendor Truck DPM Emissions ⁵ (lbs)	Total DPM Emissions (lbs)
HVT_01	Third Trimester	0.38	653	245	1.08E-02	243	91	2.01E-03	1.28E-02
HVT_01	0-2 Years	0.38	1,380	518	2.29E-02	1,011	380	8.38E-03	3.12E-02
HVT_02	Third Trimester	0.17	653	114	5.02E-03	243	42	9.34E-04	5.96E-03
HVT_02	0-2 Years	0.17	1,380	241	1.06E-02	1,011	176	3.89E-03	1.45E-02
HVT_03	Third Trimester	0.39	653	252	1.11E-02	243	94	2.07E-03	1.32E-02
HVT_03	0-2 Years	0.39	1,380	532	2.35E-02	1,011	390	8.60E-03	3.21E-02
HVT_04	Third Trimester	0.30	5,880	1,771	7.81E-02	2,187	659	1.45E-02	9.26E-02
HVT_04	0-2 Years	0.30	12,417	3,739	1.65E-01	9,103	2,741	6.04E-02	2.25E-01
HVT_05	Third Trimester	0.30	653	193	8.53E-03	243	72	1.59E-03	1.01E-02
HVT_05	0-2 Years	0.30	1,380	409	1.80E-02	1,011	300	6.60E-03	2.46E-02
HVT_06	Third Trimester	0.17	2,613	433	1.91E-02	972	161	3.55E-03	2.27E-02
HVT_06	0-2 Years	0.17	5,519	915	4.03E-02	4,046	671	1.48E-02	5.51E-02
HVT_07	Third Trimester	0.31	2,613	801	3.53E-02	972	298	6.57E-03	4.19E-02
HVT_07	0-2 Years	0.31	5,519	1,692	7.46E-02	4,046	1,240	2.73E-02	1.02E-01
HVT_08	Third Trimester	0.33	2,613	859	3.79E-02	972	319	7.04E-03	4.49E-02
HVT_08	0-2 Years	0.33	5,519	1,813	7.99E-02	4,046	1,329	2.93E-02	1.09E-01
HVT_09	Third Trimester	0.18	5,880	1,036	4.57E-02	2,187	385	8.49E-03	5.42E-02
HVT_09	0-2 Years	0.18	12,417	2,187	9.64E-02	9,103	1,603	3.54E-02	1.32E-01

- Notes:
- ¹ Source IDs represent construction truck routes for hauling and vendor trucks as modeled in AERMOD. See **Figure 2** for graphical representations of the modeled sources.
- ² Segment length based on modeled source length in AERMOD.
- ³ One-way trips for haul trucks and vendor trucks on each modeled roadway are estimated based on total trips estimated in CalEEMod model run (**Appendix A-2**) and project specific truck routes.
- ⁴ Vehicle miles traveled by haul trucks and vendor trucks are calculated as the product of segment length and one-way trips on that segment.
- ⁵ DPM emissions from haul and vendor truck travel on each modeled roadway segment are calculated as the product of VMT and PM₁₀ emission factor for that truck type. For purposes of this analysis, DPM emissions are assumed to be equal to PM₁₀ exhaust emissions.
- ⁶ DPM emission factors for haul trucks and vendor trucks are estimated as a ratio of the exhaust PM₁₀ emissions to VMT for each truck type obtained from the CalEEMod model run in **Appendix A-2**.

DPM Emission Factors: ⁶

Haul Trucks	4.41E-05 lb/mile
Vendor Trucks	2.20E-05 lb/mile

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model	lb(s) - pound(s)
CalEEMod - CALifornia Emissions Estimator MODel	PM ₁₀ - particulate matter less than 10 microns in diameter
DPM - diesel particulate matter	VMT - vehicle miles traveled

Table C-3. Diesel Particulate Matter Emissions from Concrete Trucks

El Dorado Hills Costco Project

El Dorado Hills, California

AERMOD Source Group ID ¹	Exposure Period	Segment Length ² (miles)	One-Way Trips ³	VMT ⁴ (miles)	DPM Emissions ^{5,6} (lbs)
CT_01	0-2 Years	0.38	83	31	1.38E-03
CT_02	0-2 Years	0.17	83	15	6.40E-04
CT_03	0-2 Years	0.39	83	32	1.42E-03
CT_04	0-2 Years	0.30	749	225	9.94E-03
CT_05	0-2 Years	0.30	83	25	1.09E-03
CT_06	0-2 Years	0.17	333	55	2.43E-03
CT_07	0-2 Years	0.31	333	102	4.50E-03
CT_08	0-2 Years	0.33	333	109	4.82E-03
CT_09	0-2 Years	0.18	749	132	5.82E-03
CT_IDL	0-2 Years	-	-	-	3.41E-02

Notes:

¹ Source IDs represent construction truck routes for concrete trucks as modeled in AERMOD. See **Figure 2** for graphical representations of the modeled sources.

² Segment length based on modeled source length in AERMOD.

³ One-way trips for concrete truck on each modeled roadway are estimated based on project specific information.

⁴ Vehicle miles traveled by concrete trucks are calculated as the product of segment length and total annual one-way trips on t

⁵ DPM emissions from concrete trucks travel on each modeled roadway segment (CT_01 through CT_09) are calculated as the product of VMT and PM₁₀ emission factor for concrete trucks. For purposes of this analysis, DPM emissions are assumed to be equal to PM₁₀ exhaust emissions.

⁶ DPM emissions for concrete truck idling (modeled source CT_IDL) is calculated as a product of the daily PM₁₀ emissions from concrete tuck idling and the number of days of concrete truck activity. Refer to **Table A-2** in **Appendix A** for further details.

⁷ DPM emission factors concrete trucks are estimated as a ratio of the exhaust PM₁₀ emissions to VMT for concrete trucks obtained from the CalEEMod model run in **Appendix A-4**.

DPM Emission Factors: ⁷

Concrete Trucks 4.41E-05 lb/mile

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model

CalEEMod - CALifornia Emissions Estimator MODEL

DPM - diesel particulate matter

lb(s) - pound(s)

PM₁₀ - particulate matter less than 10 microns in diameter

VMT - vehicle miles traveled

Table C-4. Toxic Air Contaminant Emissions from Gasoline Transfer and Dispensing
El Dorado Hills Costco Project
El Dorado Hills, California

Emission Sources	Loading	Breathing	Refueling	Permeation	Total for Refueling and Permeation	GDF Spillage
Source Group ID ¹	LOADING	BREATH	REFILL	REFILL	REFILL	SPILL
TOG Emission Factor ^{2,3} (lb/1,000 gallons)	0.15	0.024	0.073	0.009	-	0.05
Acute Benzene Speciation Factor ⁴ (% TOG weight)	0.549%	0.549%	0.549%	0.549%	-	0.702%
Acute Toluene Speciation Factor ⁴ (% TOG weight)	1.350%	1.350%	1.350%	1.350%	-	5.800%
Acute Xylenes Speciation Factor ⁴ (% TOG weight)	0.509%	0.509%	0.509%	0.509%	-	6.910%
Chronic Benzene Speciation Factor ⁴ (% TOG weight)	0.457%	0.457%	0.457%	0.457%	-	0.71%
Chronic Ethyl Benzene Speciation Factor ⁴ (% TOG weight)	0.107%	0.107%	0.107%	0.107%	-	1.29%
Chronic n-Hexane Speciation Factor ⁴ (% TOG weight)	1.82%	1.82%	1.82%	1.82%	-	1.86%
Chronic Naphthalene Speciation Factor ⁴ (% TOG weight)	0.0004%	0.0004%	0.0004%	0.0004%	-	0.17%
Chronic Propylene Speciation Factor ⁴ (% TOG weight)	0.0036%	0.0036%	0.0036%	0.0036%	-	0.0001%
Chronic Toluene Speciation Factor ⁴ (% TOG weight)	1.11%	1.11%	1.11%	1.11%	-	5.6%
Chronic Xylenes Speciation Factor ⁴ (% TOG weight)	0.41%	0.41%	0.41%	0.41%	-	6.59%
Maximum Hourly Benzene Emissions ⁵ (lb/hr)	7.25E-03	7.80E-04	2.38E-03	2.92E-04	0.0027	0.0021
Maximum Hourly Toluene Emissions ⁵ (lb/hr)	1.78E-02	1.92E-03	5.86E-03	7.19E-04	0.0066	0.0172
Maximum Hourly Xylenes Emissions ⁵ (lb/hr)	6.72E-03	7.23E-04	2.21E-03	2.71E-04	0.0025	0.0204
Annual Average Benzene Emissions ⁶ (lb/year)	15.766500	2.52E+00	7.71E+00	9.46E-01	8.66	8.13
Annual Average Ethyl Benzene Emissions ⁶ (lb/year)	3.69E+00	5.91E-01	1.81E+00	2.21E-01	2.03	14.84
Annual Average n-Hexane Emissions ⁶ (lb/year)	6.28E+01	1.00E+01	3.07E+01	3.77E+00	34.47	21.39
Annual Average Naphthalene Emissions ⁶ (lb/year)	1.54E-02	2.46E-03	7.51E-03	9.21E-04	0.01	2.00
Annual Average Propylene Emissions ⁶ (lb/year)	1.24E-01	1.98E-02	6.06E-02	7.44E-03	0.07	0.00
Annual Average Toluene Emissions ⁶ (lb/year)	3.83E+01	6.13E+00	1.87E+01	2.30E+00	21.02	64.75
Annual Average Xylenes Emissions ⁶ (lb/year)	1.41E+01	2.26E+00	6.90E+00	8.47E-01	7.75	75.79

Throughput:

Maximum Hourly Throughput for GDF Loading ⁷	8,800 gallons/hr
Maximum Hourly Throughput for Other GDF Sources ⁸	5,917 gallons/hr
Annual Throughput	23.0 million gallons/year

Constants:

Fueling Emission Factor (Non-ORVR Vehicles, EVR) ²	0.42 lb/1,000 gallons
Fueling Emission Factor (ORVR Vehicles, EVR) ²	0.021 lb/1,000 gallons
Percent ORVR Vehicles ⁹	86.88%
Maximum Hourly Throughput Adjustment ⁸	1.60

Notes:

¹ See **Figure 5** for graphical representations of the modeled sources.

² Emission factors obtained from Table 9 of CAPCOA Gasoline Service Station Industrywide Risk Assessment Technical Guidance. Refueling emission factor is calculated as the sum of the weighted emission factors for non-ORVR and ORVR vehicles. Available at: https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf. Accessed: June 2025.

³ Spillage emission factor was obtained from Table 2-1 of CARB CP-201, which is the most recent Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Underground Storage Tanks. Available at: <https://ww2.arb.ca.gov/sites/default/files/2023-09/CP-201.pdf>. Accessed: December 2024.

⁴ Toxic air contaminant speciation factors were obtained from Table 11 and Table 12 of CAPCOA Gasoline Service Station Industrywide Risk Assessment Technical Guidance. Available at: https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf. Accessed: June 2025.

⁵ Maximum hourly emissions are calculated as a product of the maximum hourly throughput, TOG emission factor, and the acute speciation factors.

⁶ Annual average emissions are calculated as a product of the annual throughput, TOG emission factor, and the chronic speciation factors.

⁷ Maximum hourly loading throughput is obtained from CAPCOA Gasoline Service Station Industrywide Risk Assessment Technical Guidance. Available at: https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf. Accessed: June 2025.

⁸ Maximum hourly throughput for other GDF sources is estimated by applying a scaling factor of 1.60 to the average daily throughput of the GDF. The average daily throughput was calculated using an annual throughput of 23 million gallons/year and the GDF operating schedule (7 days per week). The scaling factor of 1.60 was estimated as the ratio of maximum hourly vehicle volumes to average hourly vehicles that would be serviced at the gas station. Vehicle volume data was provided by Kittelson & Associates.

⁹ TOG emission factor for refueling is estimated by assuming that 86.88% of the vehicles to which gasoline is dispensed at the GDF are ORVR vehicles and remaining 13.22% are non-ORVR vehicles, based on data provided by El Dorado County APCD. This rate was developed using the 2022 total vehicle population required to have ORVR, accounting for vehicle model year and weight class for Sacramento County.

Abbreviations:

- APCD - Air Pollution Control District
- CAPCOA - California Air Pollution Control Officers Association
- CARB - California Air Resources Board
- EVR - enhanced vapor recovery
- GDF - gasoline dispensing facility
- hr - hour
- lb - pound
- ORVR - onboard refueling vapor recovery
- TOG - total organic gases

Table C-5. Diesel Particulate Matter Emissions from Stationary Emergency Generators

El Dorado Hills Costco Project

El Dorado, California

Source ¹	AERMOD Source ID ¹	Emissions ² (lb/year)
Particulate Matter (PM ₁₀)	GEN1	3.02
Particulate Matter (PM ₁₀)	GEN2	3.02

Notes:¹ See **Figure 5** for graphical representations of the modeled sources.² Obtained from CalEEMod model file in **Appendix B-1**.Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model

CalEEMod - California Emissions Estimator Model

lb - pounds

PM₁₀ - particulate matter of 10 microns or less in diameter

Table C-6. Diesel Particulate Matter Emissions from Delivery Trucks and Transport Refrigeration Units

El Dorado Hills Costco Project

El Dorado Hills, California

Source Group ID ¹	Annual DPM Emissions from Delivery Trucks ² (lb/year)	Annual DPM Emissions from Transport Refrigeration Units ³ (lb/year)	Total Annual DPM Running and Idling Exhaust Emissions (lb/year)
FT_01	3.18E-02	-	3.18E-02
FT_02	1.54E-02	-	1.54E-02
FT_03	2.82E-02	-	2.82E-02
FT_04	1.13E-02	-	1.13E-02
FT_05	2.51E-02	-	2.51E-02
FT_A	2.25E-02	-	2.25E-02
FT_IDL	3.40E-02	-	3.40E-02
WT_01	7.18E-02	2.33E-02	9.50E-02
WT_02	3.33E-02	1.08E-02	4.41E-02
WT_03	5.44E-02	1.76E-02	7.20E-02
WT_04	6.27E-02	2.04E-02	8.31E-02
WT_05	6.67E-02	2.16E-02	8.83E-02
WT_06	5.66E-02	1.84E-02	7.49E-02
WT_07	2.90E-02	4.80E-02	7.69E-02
WT_08	2.53E-02	4.18E-02	6.71E-02
WT_09	2.50E-02	8.11E-03	3.31E-02
WT_IDL	7.68E-02	-	7.68E-02
TRU_IDL	-	4.65E-01	4.65E-01

Notes:

¹ See **Figure 3** through **Figure 5** for graphical representations of the modeled sources.

² DPM emissions from fuel delivery trucks and warehouse and tire center delivery trucks are calculated using emission factors from **Table C-10** along with VMT and vehicle idling time from **Table C-9**.

³ DPM emissions from TRUs are calculated using TRU emission factors from **Table C-11** along with TRU operational duration from **Table C-9**.

Conversion Factors:

453.592 g/lb

60 min/hr

Abbreviations:

DPM - diesel particulate matter

g - gram

lb - pound

min/hr - minutes per hour

TRU - transport refrigeration unit

VMT - vehicle miles traveled

Table C-7. Annual Average Toxic Air Contaminant Emissions from Passenger Vehicles

El Dorado Hills Costco Project

El Dorado Hills, California

Toxic Air Contaminant (TAC)	Annual Average TAC Emission in ROG Starting Exhaust Emissions ¹ (lb/year)	Annual Average TAC Emissions in ROG Idling Exhaust Emissions ¹ (lb/year)	Annual Average TAC Emissions in ROG Evaporative Exhaust Emissions ¹ (lb/year)	Annual Average TAC Emissions in PM_{2.5} Idling Exhaust Emissions ² (lb/year)	Annual Average TAC Emissions in PM_{2.5} Starting Exhaust Emissions ² (lb/year)	Total Annual Average TAC Emissions (lb/year)
1,3-butadiene	5.00E-01	2.56E-02	0.00E+00	0.00E+00	0.00E+00	5.25E-01
benzene	2.00E+00	4.10E-01	2.57E+00	0.00E+00	0.00E+00	4.98E+00
formaldehyde	1.25E+00	2.27E-01	0.00E+00	0.00E+00	0.00E+00	1.47E+00
acrolein (2-propenal)	4.88E-03	5.12E-04	0.00E+00	0.00E+00	0.00E+00	5.39E-03
Naphthalene	4.51E-02	3.89E-02	0.00E+00	1.37E-04	2.46E-05	8.41E-02
acetaldehyde	8.66E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.02E+00
ethyl benzene	9.98E-01	1.18E-01	1.67E+00	0.00E+00	0.00E+00	2.78E+00
Acenaphthene	3.08E-03	6.14E-04	0.00E+00	0.00E+00	0.00E+00	3.69E-03
Acenaphthylene	1.40E-02	2.79E-03	0.00E+00	4.07E-05	7.34E-06	1.68E-02
Anthracene	2.58E-03	5.15E-04	0.00E+00	4.21E-05	7.60E-06	3.15E-03
Benz(a)anthracene	4.16E-04	8.31E-05	0.00E+00	3.86E-04	6.97E-05	9.55E-04
Benzo(a)pyrene	2.27E-05	4.52E-06	0.00E+00	9.69E-04	1.74E-04	1.17E-03
Benzo(b)fluoranthene	3.09E-04	6.17E-05	0.00E+00	4.72E-04	8.51E-05	9.28E-04
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	2.62E-03	4.73E-04	3.10E-03
Benzo(k)fluoranthene	3.09E-04	6.17E-05	0.00E+00	4.72E-04	8.51E-05	9.28E-04
Chrysene	4.66E-04	9.31E-05	0.00E+00	3.27E-04	5.89E-05	9.45E-04
Dibenz(a,h)anthracene	0.00E+00	0.00E+00	0.00E+00	2.26E-05	4.09E-06	2.67E-05
Fluoranthene	4.32E-03	8.62E-04	0.00E+00	1.49E-04	2.68E-05	5.35E-03
Fluorene	6.23E-03	1.24E-03	0.00E+00	0.00E+00	0.00E+00	7.47E-03
Indeno(1,2,3-c,d)pyrene	0.00E+00	0.00E+00	0.00E+00	9.85E-04	1.77E-04	1.16E-03
Phenanthrene	1.65E-02	3.29E-03	0.00E+00	1.48E-04	2.65E-05	2.00E-02
Pyrene	4.93E-03	9.85E-04	0.00E+00	1.61E-04	2.90E-05	6.11E-03

Notes:

¹ Annual average TAC emissions in ROG starting exhaust, idling exhaust, and evaporative emissions are calculated based on annual average ROG emissions presented in **Table C-13** and the TAC speciation profiles presented in **Table C-12**.

² Annual average TAC emissions in PM_{2.5} idling and starting exhaust emissions are calculated based on annual average PM_{2.5} emissions presented in **Table C-13** and the TAC speciation profiles presented in **Table C-12**.

Abbreviations:

lb - pound

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

Table C-8. Maximum Hourly Toxic Air Contaminant Emissions from Passenger Vehicles

El Dorado Hills Costco Project

El Dorado Hills, California

Toxic Air Contaminant (TAC)	Maximum Hourly TAC Emissions in ROG Starting Exhaust Emissions ¹ (lb/hr)	Maximum Hourly TAC Emissions in ROG Idling Exhaust Emissions ¹ (lb/hr)	Maximum Hourly TAC Emissions in ROG Evaporative Exhaust Emissions ¹ (lb/hr)	Maximum Hourly TAC Emissions in PM_{2.5} Idling Exhaust Emissions ² (lb/hr)	Maximum Hourly TAC Emissions in PM_{2.5} Starting Exhaust Emissions ² (lb/hr)	Total Maximum Hourly TAC Emissions (lb/hr)
1,3-butadiene	1.23E-04	1.14E-05	0.00E+00	0.00E+00	0.00E+00	1.34E-04
benzene	4.91E-04	1.82E-04	6.33E-04	0.00E+00	0.00E+00	1.31E-03
formaldehyde	3.07E-04	1.01E-04	0.00E+00	0.00E+00	0.00E+00	4.07E-04
acrolein (2-propenal)	1.20E-06	2.28E-07	0.00E+00	0.00E+00	0.00E+00	1.43E-06
Naphthalene	1.11E-05	1.73E-05	0.00E+00	6.08E-08	6.05E-09	2.84E-05
acetaldehyde	2.13E-04	6.71E-05	0.00E+00	0.00E+00	0.00E+00	2.80E-04
ethyl benzene	2.45E-04	5.24E-05	4.10E-04	0.00E+00	0.00E+00	7.08E-04
Acenaphthene	7.57E-07	2.73E-07	0.00E+00	0.00E+00	0.00E+00	1.03E-06
Acenaphthylene	3.43E-06	1.24E-06	0.00E+00	1.81E-08	1.81E-09	4.69E-06
Anthracene	6.35E-07	2.29E-07	0.00E+00	1.87E-08	1.87E-09	8.85E-07
Benz(a)anthracene	1.02E-07	3.69E-08	0.00E+00	1.72E-07	1.72E-08	3.28E-07
Benzo(a)pyrene	5.58E-09	2.01E-09	0.00E+00	4.31E-07	4.29E-08	4.81E-07
Benzo(b)fluoranthene	7.61E-08	2.74E-08	0.00E+00	2.10E-07	2.09E-08	3.34E-07
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	1.16E-06	1.16E-07	1.28E-06
Benzo(k)fluoranthene	7.61E-08	2.74E-08	0.00E+00	2.10E-07	2.09E-08	3.34E-07
Chrysene	1.15E-07	4.14E-08	0.00E+00	1.45E-07	1.45E-08	3.16E-07
Dibenz(a,h)anthracene	0.00E+00	0.00E+00	0.00E+00	1.00E-08	1.01E-09	1.10E-08
Fluoranthene	1.06E-06	3.83E-07	0.00E+00	6.60E-08	6.59E-09	1.52E-06
Fluorene	1.53E-06	5.52E-07	0.00E+00	0.00E+00	0.00E+00	2.08E-06
Indeno(1,2,3-c,d)pyrene	0.00E+00	0.00E+00	0.00E+00	4.38E-07	4.36E-08	4.81E-07
Phenanthrene	4.06E-06	1.46E-06	0.00E+00	6.55E-08	6.52E-09	5.59E-06
Pyrene	1.21E-06	4.37E-07	0.00E+00	7.17E-08	7.13E-09	1.73E-06

Notes:

¹ Maximum hourly TAC emissions in ROG starting exhaust, running and idling exhaust, and evaporative emissions are calculated based on maximum hourly ROG emissions presented in **Table C-13** and the TAC speciation profiles presented in **Table C-12**.

² Maximum hourly TAC emissions in PM_{2.5} running and idling, and starting exhaust emissions calculated based on maximum hourly PM_{2.5} emissions presented in **Table C-13** and the TAC speciation profiles presented in **Table C-12**.

Abbreviations:

lb/hr - pounds per hour

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

Table C-9. Mobile Source Activity Data on Modeled Roadways
El Dorado Hills Costco Project
El Dorado Hills, California

Modeled Roadway Links ¹	AERMOD Source Group ID ¹	Annual Trip Rates ² (one-way trips/year)	Segment Length ³ (miles)	Annual VMT ⁴ (miles/year)	Annual TRU Operational Duration ⁵ (minutes/year)	Peak Hour Vehicle Volume ² (vehicle/hour)	Annual Vehicle Volume ² (vehicle/year)	Annual Average Idling Time ⁶ (idle minutes/year)	Maximum Hourly Idling Time for Passenger Vehicles ⁶ (idle minutes/hour)
Fuel Delivery Truck Travel	FT_01	1,825	0.38	686	-	-	-	-	-
Fuel Delivery Truck Travel	FT_02	1,825	0.18	331	-	-	-	-	-
Fuel Delivery Truck Travel	FT_03	3,650	0.17	607	-	-	-	-	-
Fuel Delivery Truck Travel	FT_04	1,825	0.13	245	-	-	-	-	-
Fuel Delivery Truck Travel	FT_05	1,825	0.30	540	-	-	-	-	-
Fuel Delivery Truck Travel	FT_A	1,825	0.23	412	-	-	-	-	-
Fuel Delivery Truck Travel	FT_IDL	-	-	-	-	-	1,825	27,375	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_01	4,119	0.38	1,548	823	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_02	4,119	0.17	718	382	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_03	4,119	0.28	1,173	624	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_04	4,119	0.33	1,353	719	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_05	4,119	0.35	1,438	765	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_06	4,119	0.30	1,220	649	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_07	4,119	0.13	531	1,694	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_08	4,119	0.11	464	1,479	-	-	-	-
Warehouse and Tire Center Delivery Truck and TRU Travel	WT_09	4,119	0.13	539	287	-	-	-	-
Warehouse and Tire Center Delivery Truck Idling	WT_IDL	-	-	-	-	-	4,119	61,789	-
TRU Operation at Dock	TRU_IDL	-	-	-	16,425	-	-	-	-
Passenger Vehicle Idling ⁷	PV_IDL	-	-	-	-	255	1,036,522	2,658,504	1,181

Notes:

- ¹ See **Figure 3** through **Figure 5** for graphical representations of the modeled sources.
- ² Passenger vehicle volumes based project-specific data provided by Kittelson & Associates. Fuel delivery truck trip rates and vehicle volumes assume a maximum of one truck per hour and five trucks per day based on project-specific information. Warehouse and tire center delivery truck trip rates and vehicle volumes assume a maximum of one truck per hour, eleven warehouse delivery trucks per day, and two tire center delivery trucks per week based on project-specific information.
- ³ Segment length based on modeled source length in AERMOD.
- ⁴ VMT is calculated as the product of the segment length and the total number of trips in the respective averaging period.
- ⁵ The annual TRU operational time during warehouse delivery truck travel was calculated as a product of the number of TRUs visiting the site in a year and the TRU operational time for an individual TRU traveling on that roadway link. The operational time for an individual TRU traveling on a roadway link is calculated by dividing the segment length by the corresponding average truck travel speeds. Warehouse truck travel on roadway links WT_07 and WT_08 represent on-site travel and all other warehouse delivery truck roadway links represent off-site travel. The annual TRU operational time at the dock is calculated as the product of the on-site operational time during truck idling and the annual number of TRUs visiting the site.
- ⁶ Idle duration for passenger vehicles based on project-specific data. Delivery truck idle durations are assumed to be 15 minutes (5 minutes arriving, 5 minutes idling, 5 minutes leaving) per truck visit consistent with the CARB Air Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Available at: <https://ww2.arb.ca.gov/our-work/programs/atcm-to-limit-vehicle-idling/about>. Accessed: June 2025.
- ⁷ Passenger vehicles represent vehicles used by patrons of the fuel station.
- ⁸ The on-site TRU operational time during truck idling is assumed to 15 minutes as described above in footnote 6. Note, the TRUs are not expected to idle for more than 5 minutes at the dock while unloading goods at the warehouse.
- ⁹ The on-site and off-site average truck travel speed are consistent with CARB's assumptions in Appendix I of the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: March 2025.
- ¹⁰ The number of TRUs per day is based on Project-specific information. The total number of TRU uses per year was estimated by multiplying the daily number of TRUs by 365 operational days per year.

TRU Trip Information:

On-Site Operational Time During Truck Idling ⁸	15 minutes/round trip per TRU
On-Site Average Truck Travel Speed ⁹	5 miles/hour
Off-Site Average Truck Travel Speed ⁹	30 miles/hour
Number of TRUs ¹⁰	3 TRUs/day
Number of TRUs ¹⁰	1,095 TRUs/year

Conversion Factor:

60 minutes/hour

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model
CARB - California Air Resources Board
TRU - transport refrigeration unit
VMT - vehicle miles traveled

Table C-10. Diesel Particulate Matter Emission Factors for Delivery Trucks

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix ¹	Off-site Running Exhaust ^{2,3} (g/mile)	On-site Running Exhaust ^{2,4} (g/mile)	Idle Exhaust ^{2,5} (g/idle-minute)
HHDT	Diesel	100%	2.10E-02	2.47E-02	5.64E-04
Weighted Average Emission Factor			2.10E-02	2.47E-02	5.64E-04

Notes:

¹ Delivery trucks are assumed to be diesel-fueled heavy heavy duty trucks.

² For purposes of this analysis, DPM emissions are assumed to be equal to PM₁₀ exhaust emissions from diesel vehicles.

³ Off-site running exhaust emission factor was obtained from the default EMFAC2021 output for El Dorado County - Mountain Counties calendar year 2027. Emission factor reflects aggregated vehicle travel speeds.

⁴ On-site running exhaust emission factor was obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027. Emission factor reflects vehicle travel speed of 5 mph.

⁵ Idle exhaust emission factor was obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027.

Abbreviations:

DPM - diesel particulate matter

EMFAC - EMission FACTors model

g - gram

HHDT - Heavy heavy-duty truck

mph - miles per hour

PM₁₀ - particulate matter less than 10 microns in diameter

Table C-11. Diesel Particulate Matter Emission Factors for Transport Refrigeration Units

El Dorado Hills Costco Project

El Dorado Hills, California

Transport Refrigeration Unit (TRU) Category	Fuel Type	Total Activity ¹ (hr/year)	DPM Emission Factor ^{1,2} (lb/hr)
Transport Refrigeration Unit - Instate Trailer	Diesel	3,284	1.49E-03
Transport Refrigeration Unit - Out-Of-State Trailer	Diesel	1,895	2.05E-03
Weighted Average Emission Factor ³			1.70E-03

Notes:

¹ Total activity and PM₁₀ emission factors for TRUs were obtained from OFFROAD2021 emissions output for El Dorado (MC) sub-area calendar year 2027.

² For purposes of this analysis, DPM emissions are assumed to be equal to PM₁₀ exhaust emissions from diesel vehicles.

³ The activity weighted average emission factor for TRUs servicing the proposed Project are calculated as the sumproduct of the total activity and the DPM emission factors for the individual TRU categories.

Abbreviations:

DPM - diesel particulate matter

hr - hour

lb - pound

MC - Mountain County

PM₁₀ - particulate matter less than 10 microns in diameter

Table C-12. Speciation Profiles Used to Calculate Mobile Source Air Toxic Emissions from Passenger Vehicles

El Dorado Hills Costco Project
El Dorado Hills, California

Chemical Name	CAS Number	ROG Starting Exhaust Weight Fraction ¹	ROG Idling Exhaust Weight Fraction ²	ROG Evaporative Weight Fraction ³	PM _{2.5} Starting Exhaust Weight Fraction ⁴	PM _{2.5} Idling Exhaust Weight Fraction ⁴
1,3-butadiene	106990	6.48E-03	1.66E-03	-	-	-
benzene	71432	2.59E-02	2.67E-02	1.17E-02	-	-
formaldehyde	50000	1.62E-02	1.47E-02	-	-	-
acrolein (2-propenal)	107028	6.33E-05	3.33E-05	-	-	-
naphthalene	91203	5.84E-04	2.53E-03	-	7.16E-05	7.19E-05
acetaldehyde	75070	1.12E-02	9.82E-03	-	-	-
ethyl benzene	100414	1.29E-02	7.67E-03	7.55E-03	-	-
POM (15 Pollutants)						
<i>Acenaphthene</i>	83329	3.99E-05	3.99E-05	-	-	-
<i>Acenaphthylene</i>	208968	1.81E-04	1.81E-04	-	2.14E-05	2.13E-05
<i>Anthracene</i>	120127	3.35E-05	3.35E-05	-	2.21E-05	2.21E-05
<i>Benz(a)anthracene</i>	56553	5.40E-06	5.40E-06	-	2.03E-04	2.03E-04
<i>Benzo(a)pyrene</i>	50328	2.94E-07	2.94E-07	-	5.07E-04	5.09E-04
<i>Benzo(b)fluoranthene</i>	205992	4.01E-06	4.01E-06	-	2.48E-04	2.48E-04
<i>Benzo(g,h,i)perylene</i>	191242	-	-	-	1.38E-03	1.38E-03
<i>Benzo(k)fluoranthene</i>	207089	4.01E-06	4.01E-06	-	2.48E-04	2.48E-04
<i>Chrysene</i>	218019	6.05E-06	6.05E-06	-	1.71E-04	1.72E-04
<i>Dibenz(a,h)anthracene</i>	53703	-	-	-	1.19E-05	1.19E-05
<i>Fluoranthene</i>	206440	5.60E-05	5.60E-05	-	7.80E-05	7.80E-05
<i>Fluorene</i>	86737	8.08E-05	8.08E-05	-	-	-
<i>Indeno(1,2,3-c,d)pyrene</i>	193395	-	-	-	5.16E-04	5.17E-04
<i>Phenanthrene</i>	85018	2.14E-04	2.14E-04	-	7.72E-05	7.74E-05
<i>Pyrene</i>	129000	6.40E-05	6.40E-05	-	8.44E-05	8.47E-05

Notes:

¹ The ROG starting exhaust speciation profile for gasoline vehicles represents the maximum of CARB profiles OG2301 and OG2302 and EPA MOVES profiles. See **Table 5-1** for further details.

² The ROG idling exhaust speciation profile for gasoline vehicles represents the maximum of CARB profiles OG2303 and OG2304 and EPA MOVES profiles. See **Table 5-1** for further details.

³ The ROG evaporative speciation profile for gasoline vehicles represents CARB profile OG2315. See **Table 5-1** for further details.

⁴ The PM_{2.5} starting and idling exhaust speciation profiles for gasoline vehicles represent EPA MOVES profiles. See **Table 5-1** for further details.

Abbreviations:

CARB - California Air Resources Board

CAS - Chemical Abstract Service

EPA MOVES - Environmental Projection Agency Motor Vehicle Emission Simulator

PM_{2.5} - particulate matter less than 2.5 microns in diameter

POM - polycyclic organic matter

ROG - reactive organic gases

Table C-13. Reactive Organic Gas and PM_{2.5} Emissions from Passenger Vehicles

El Dorado Hills Costco Project

El Dorado Hills, California

Source Group ID ¹	Peak Hour ROG Starting Exhaust Emissions ² (lb/hr)	Annual ROG Starting Exhaust Emissions ² (lb/year)	Peak Hour ROG Idling Exhaust Emissions ² (lb/hr)	Annual ROG Idling Exhaust Emissions ² (lb/year)	Peak Hour ROG Evaporative Emissions ² (lb/hr)	Annual ROG Evaporative Emissions ² (lb/year)	Peak Hour PM _{2.5} Idling Exhaust Emissions ³ (lb/hr)	Annual PM _{2.5} Idling Exhaust Emissions ³ (lb/year)	Peak Hour PM _{2.5} Starting Exhaust Emissions ³ (lb/hr)	Annual PM _{2.5} Starting Exhaust Emissions ³ (lb/year)
PV_IDL	1.90E-02	7.71E+01	6.84E-03	1.54E+01	5.43E-02	2.21E+02	8.47E-04	1.91E+00	8.45E-05	3.43E-01

Notes:

¹ See **Figure 5** for a graphical representation of the modeled sources.

² ROG emissions calculated using emission factors from **Table C-14** along with idling minutes and vehicle volumes from **Table C-9**. On-site starting exhaust emissions and evaporative hotsoak emissions are assumed to occur once over a round trip. Therefore, starting exhaust emissions and evaporative hot soak emissions are based on the vehicle volumes specified in **Table C-7**.

³ PM_{2.5} emissions calculated using emission factors from **Table C-15** along with idling minutes and vehicle volumes from **Table C-9**. On-site starting exhaust emissions are assumed to occur once over a round trip, therefore, starting exhaust emissions are based on the vehicle volumes specified in **Table C-9**.

Abbreviations:

hr - hour

lb - pound

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

Table C-14. Reactive Organic Gas Emission Factors for Passenger Vehicles

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix for Passenger Vehicles Visiting the GDF ¹	Hot Soak ² (g/trip)	Starting Exhaust ³ (g/trip)	Idle Exhaust ⁴ (g/idle-minute)
LDA	Gasoline	42.0%	7.9E-02	2.3E-02	1.8E-03
LDT1	Gasoline	6.0%	2.2E-01	6.3E-02	6.7E-03
LDT2	Gasoline	30.0%	9.0E-02	3.5E-02	2.5E-03
MDV	Gasoline	19.7%	1.2E-01	4.9E-02	3.5E-03
LDA	Plug-in Hybrid	1.7%	1.4E-02	1.1E-02	5.0E-04
LDT1	Plug-in Hybrid	0.0%	8.1E-03	9.9E-03	4.6E-04
LDT2	Plug-in Hybrid	0.4%	9.6E-03	1.0E-02	4.9E-04
MDV	Plug-in Hybrid	0.3%	1.2E-02	1.1E-02	4.9E-04
Weighted Emission Factor ⁵			9.7E-02	3.4E-02	2.6E-03

Notes:

¹ The project specific fleet mix for passenger vehicles visiting the GDF are obtained from **Table B-3** in **Appendix B**.

² ROG emission factors for hot soak for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027.

³ ROG emission factors for starting exhaust for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027. Emission factors reflect starting exhaust emissions based on an assumed vehicle shutoff time (i.e., soak time) of 5 minutes.

⁴ Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027. The idling emission rates were estimated by multiplying the speed correction factor of 2.5 mph to the running exhaust emission rate in grams per mile at 5 mph.

⁵ Weighted average emission factors for passenger cars visiting the GDF are calculated as the sumproduct of the project specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

EMFAC - Emission FACTors model

g - gram

GDF - gasoline dispensing facility

LDA - Light-duty automobile

LDT - Light-duty truck

MDV - Medium-duty vehicle

mph - miles per hour

ROG - reactive organic gases

Table C-15. PM_{2.5} Emission Factors for Passenger Vehicles

El Dorado Hills Costco Project

El Dorado Hills, California

EMFAC Vehicle Class	Fuel Type	Project Specific Fleet Mix for Passenger Vehicles Visiting the GDF ¹	Starting Exhaust ² (g/trip)	Idle Exhaust ³ (g/idle-minute)
LDA	Gasoline	42.0%	1.4E-04	3.1E-04
LDT1	Gasoline	6.0%	2.7E-04	4.6E-04
LDT2	Gasoline	30.0%	1.4E-04	3.3E-04
MDV	Gasoline	19.7%	1.7E-04	3.4E-04
LDA	Plug-in Hybrid	1.7%	5.6E-05	1.4E-04
LDT1	Plug-in Hybrid	0.0%	3.8E-05	9.4E-05
LDT2	Plug-in Hybrid	0.4%	4.8E-05	1.2E-04
MDV	Plug-in Hybrid	0.3%	5.6E-05	1.4E-04
Weighted Average Emission Factor ⁴			1.5E-04	3.3E-04

Notes:

¹ The project specific fleet mix for passenger vehicles visiting the GDF are obtained from **Table B-3** in **Appendix B**.

² PM_{2.5} emission factors for starting exhaust for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027. Emission factors reflect starting exhaust emissions after an assumed vehicle shutoff time of 5 minutes.

³ Emission factors for each EMFAC vehicle class/fuel combination were obtained from the default EMFAC2021 project-level output for El Dorado County - Mountain Counties calendar year 2027. The idling emission rates were estimated by multiplying the speed correction factor of 2.5 mph to the running exhaust emission rate in grams per mile at 5 mph.

⁴ Weighted average emission factors for passenger cars visiting the GDF are calculated as the sumproduct of the project specific fleet mix and the emission factors for the individual vehicle class/fuel categories within that fleet mix.

Abbreviations:

EMFAC - Emission FACTors model

g - gram

GDF - gasoline dispensing facility

LDA - Light-duty automobile

LDT - Light-duty truck

MDV - medium-duty vehicle

mph - miles per hour

PM_{2.5} - particulate matter less than 2.5 microns in diameter

Table C-16. Diesel Particulate Matter Emissions from Mitigated Off-Road Construction Equipment

El Dorado Hills Costco Project

El Dorado Hills, California

Exposure Period for Construction Health Risk Assessment	Start Date for Exposure Period	End Date for Exposure Period	Construction Phase	Start Date for Construction Phase within Exposure Period	End Date for Construction Phase within Exposure Period	Construction Phase Duration within Exposure Period (days)	Exhaust PM ₁₀ Emissions from Mitigated Construction Equipment ¹ (lbs)
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Site Preparation	7/1/2026	8/6/2026	37	5.2
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Grading	8/7/2026	9/29/2026	54	11.6
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Building Construction	8/7/2026	9/29/2026	54	6.9
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Linear, Grubbing & Land Clearing	7/1/2026	7/26/2026	26	1.5
0.25 Years in Third Trimester	7/1/2026	9/29/2026	Linear, Grading & Excavation	7/27/2026	9/29/2026	65	5.5
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Grading	9/30/2026	12/31/2026	93	20.0
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Grading	1/1/2027	1/27/2027	27	5.7
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Building Construction	9/30/2026	12/31/2026	93	11.8
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Building Construction	1/1/2027	5/17/2027	137	16.5
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Paving	1/28/2027	4/16/2027	79	8.6
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Architectural Coating	3/17/2027	5/17/2027	62	1.2
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Grading & Excavation	9/30/2026	11/8/2026	40	3.4
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Drainage, Utilities, & Sub-Grade	11/9/2026	12/31/2026	53	6.7
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Drainage, Utilities, & Sub-Grade	1/1/2027	2/8/2027	39	4.7
0.63 Years in 0-2 Year Age Bin	9/30/2026	5/17/2027	Linear, Paving	2/9/2027	3/19/2027	39	0.7
Total DPM Emissions ² for Mitigated Off-road Construction Equipment (Source Group CONEQ) in the Third Trimester Exposure Period (lbs)							30.7
Total DPM Emissions ² for Mitigated Off-road Construction Equipment (Source Group CONEQ) in the 0-2 Year Age Bin Exposure Period (lbs)							79.2

Notes:

¹ Mitigated emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A-2**. Mitigated emissions for the Linear, Grubbing & Land Clearing; Linear, Grading & Excavation; Linear, Drainage, Utilities, & Sub-Grade; and Linear, Paving construction phases are obtained from **Appendix A-4**. Emissions for construction phases that occur in multiple exposure periods are apportioned based on construction phase duration within each exposure period.

² For purposes of this analysis, DPM emissions are assumed to be equal to PM₁₀ exhaust emissions.

Abbreviations:

DPM - Diesel Particulate Matter

lbs - pounds

PM₁₀ - particulate matter less than 10 microns in diameter

APPENDIX D AERMOD INPUTS

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Table D-1. Volume Source Parameters

El Dorado Hills Costco Project
El Dorado Hills, California

Modeled Emissions Source ¹	Operating Hours for Modeled Emission Sources	AERMOD Source Group	Release Height ² (m)	Initial Lateral Dimension, Sigma Y ³ (m)	Initial Vertical Dimension, Sigma Z ² (m)	Number of Modeled Sources ⁴	Modeled Emission Rate ⁵
GDF fueling and Hose Permeation	5:00 AM - 10:00 PM daily	REFILL	1.50	8.01	1.86	1	1
GDF Spillage	5:00 AM - 10:00 PM daily	SPILL	1.00	8.01	1.86	1	1
On-Site Construction Equipment ⁶	7:00 AM - 7:00 PM on Weekdays and 8:00 AM - 5:00 PM on Weekends	CONEQ	5.00	9.30	1.0	264	0.0038

Notes:

¹ See **Figures 1** and **5** for graphical representations of the modeled sources.

² Release height and Sigma Z for GDF fueling, hose permeation, and spillage are based on CARB and CAPCOA Gasoline Service Station Industrywide Risk Assessment Guidelines.

³ Initial lateral dimensions of GDF fueling, hose permeation, and spillage, are based on the dimensions of the gas station canopy, divided by 4.3 as suggested by USEPA AERMOD User Guide.

⁴ Represents total number of sources modeled within each source group in AERMOD.

⁵ Each AERMOD source group is modeled with a 1 gram per second emission rate.

⁶ Initial lateral dimension, initial vertical dimension and release height of construction equipment sources are based on SMAQMD CEQA Guide Chapter 3 Appendix Dispersion Modeling of Construction-Generated PM₁₀ Emissions.

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model

CARB - California Air Resources Board

CAPCOA - California Air Pollution Control Officers Association

CEQA - California Environmental Quality Act

GDF - Gasoline Dispensing Facility

m - meters

SMAQMD - Sacramento Metropolitan Air Quality Management District

USEPA - United States Environmental Protection Agency

References:

SMAQMD, 2013. CEQA Guide Chapter 3 Appendix: Dispersion Modeling of Construction-Generated PM₁₀ Emissions. Available at: <https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf>. Accessed: June 2025.

CARB and CAPCOA, 2022. Gasoline Service Station Industrywide Risk Assessment Guidelines. Available at: https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf. Accessed: June 2025.

USEPA. 2021. User's Guide for the AMS/EPA Regulatory Model. August. Available at: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf. Accessed: June 2025.

Table D-2. Area Source Parameters for On-Site Truck and TRU Idling

El Dorado Hills Costco Project

El Dorado Hills, California

Modeled Emissions Source ¹	Operating Hours for Modeled Emission Sources	AERMOD Source ID ¹	AERMOD Source Group	Source Type	Vertical Dimension ² (m)	Initial Vertical Dimension, Sigma Z ³ (m)	Release Height ⁴ (m)	Total Area of Source (m ²)	Modeled Emission Rate ⁵ (g/s/m ²)
Fuel Delivery Truck Idling	5:00 AM - 10:00 PM daily	FT_IDL	FT_IDL	Areapoly	4.0	0.93	4.0	188	5.32E-03
Warehouse and Tire Center Truck Idling	2:00 AM - 1:00 PM daily	WT_IDL	WT_IDL	Areapoly	9.6	4.47	4.0	522	1.92E-03
Concrete Truck Idling	12:00 AM - 7:00 AM daily	CT_IDL	CT_IDL	Areapoly	4.0	0.93	4.0	14,403	6.94E-05
Passenger Vehicle Idling	5:00 AM - 10:00 PM daily	PV_IDL	PV_IDL	Areapoly	1.53	0.36	1.53	1,287	7.77E-04
TRU Idling ⁶	2:00 AM - 1:00 PM daily	TRU_IDL	TRU_IDL	Areapoly	9.6	4.47	6.0	522	1.92E-03

Notes:¹ See **Figures 1** and **5** for graphical representations of the modeled sources.² The vertical dimension is assumed to be equal to the vehicle height for vehicle idling, per the USEPA Transportation Conformity Guidance. Vehicle height is based on the USEPA Transportation Conformity Guidance.³ For on-site idling emission sources that are not adjacent to buildings (fuel delivery truck idling, concrete truck idling, and passenger vehicle idling), the initial vertical dimension, Sigma Z, is estimated as the vertical dimension divided by 4.3, based on the USEPA AERMOD User Guide. For warehouse truck idling that is expected to occur adjacent to the warehouse building the initial vertical dimension, Sigma Z, is estimated as the vertical dimension divided by 2.15, in accordance with the USEPA AERMOD User Guide.⁴ The release height of truck idling is assumed to be 4 meters, based on the USEPA Transportation Conformity Guidance.⁵ Each AERMOD source group is modeled with a 1 gram per second emission rate.⁶ The release height and initial vertical dimension (Sigma Z) for TRU idling are based on CARB's modeling assumptions in Appendix I of the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate. While the release height was directly obtained from this document (average of values in Table II.G.4), the initial vertical dimension, Sigma Z, for this source that is adjacent to the warehouse building is estimated by dividing the proposed warehouse building height by 2.15.Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model

ATCM - Airborne Toxic Control Measure

CARB - California Air Resources Board

g - grams

m - meters

s - second

USEPA - United States Environmental Protection Agency

TRU - transport refrigeration unit

References:CARB, 2021. Appendix I to the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate, Table II.G.4. AERMOD Source Inputs - Cold Storage Warehouse. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: June 2025.USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. November. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1013C6A.pdf>. Accessed: June 2025.USEPA. 2023. User's Guide for the AMS/EPA Regulatory Model. August. Available at: https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf. Accessed: June 2025.

Table D-3. Area Source Parameters for Construction Truck (Hauling and Vendor) Travel
El Dorado Hills Costco Project
El Dorado Hills, California

AERMOD Source ID ¹	AERMOD Source Group	Source Type	Lane Count	Width ² (m)	Length (m)	Vertical Dimension ³ (m)	Initial Vertical Dimension, Sigma Z ⁴ (m)	Release Height ⁵ (m)	Total Area of Source (m ²)	Modeled Emission Rate ⁶ (g/s/m ²)
HVT_01_1	HVT_01	Line-Area	1	3.30	107	6.8	3.16	3.4	354	5.01E-04
HVT_01_2	HVT_01	Line-Area	1	3.30	177	6.8	3.16	3.4	584	5.01E-04
HVT_01_3	HVT_01	Line-Area	1	3.30	68	6.8	3.16	3.4	226	5.01E-04
HVT_01_4	HVT_01	Line-Area	1	3.30	108	6.8	3.16	3.4	358	5.01E-04
HVT_01_5	HVT_01	Line-Area	1	3.30	55	6.8	3.16	3.4	182	5.01E-04
HVT_01_6	HVT_01	Line-Area	1	3.30	88	6.8	3.16	3.4	292	5.01E-04
HVT_02_1	HVT_02	Line-Area	2	6.60	83	6.8	3.16	3.4	548	5.40E-04
HVT_02_2	HVT_02	Line-Area	2	6.60	89	6.8	3.16	3.4	587	5.40E-04
HVT_02_3	HVT_02	Line-Area	2	6.60	44	6.8	3.16	3.4	289	5.40E-04
HVT_02_4	HVT_02	Line-Area	2	6.60	65	6.8	3.16	3.4	428	5.40E-04
HVT_03_1	HVT_03	Line-Area	1	3.30	57	6.8	3.16	3.4	188	4.88E-04
HVT_03_2	HVT_03	Line-Area	1	3.30	564	6.8	3.16	3.4	1,861	4.88E-04
HVT_04_1	HVT_04	Line-Area	4	13.20	43	6.8	3.16	3.4	562	1.56E-04
HVT_04_2	HVT_04	Line-Area	4	13.20	155	6.8	3.16	3.4	2,051	1.56E-04
HVT_04_3	HVT_04	Line-Area	4	13.20	137	6.8	3.16	3.4	1,815	1.56E-04
HVT_04_4	HVT_04	Line-Area	4	13.20	149	6.8	3.16	3.4	1,969	1.56E-04
HVT_05_1	HVT_05	Line-Area	1	3.30	109	6.8	3.16	3.4	360	6.36E-04
HVT_05_2	HVT_05	Line-Area	1	3.30	135	6.8	3.16	3.4	446	6.36E-04
HVT_05_3	HVT_05	Line-Area	1	3.30	145	6.8	3.16	3.4	478	6.36E-04
HVT_05_4	HVT_05	Line-Area	1	3.30	87	6.8	3.16	3.4	289	6.36E-04
HVT_06_1	HVT_06	Line-Area	2	6.60	164	6.8	3.16	3.4	1,082	5.68E-04
HVT_06_2	HVT_06	Line-Area	2	6.60	103	6.8	3.16	3.4	679	5.68E-04
HVT_07_1	HVT_07	Line-Area	1	3.30	80	6.8	3.16	3.4	264	6.14E-04
HVT_07_2	HVT_07	Line-Area	1	3.30	36	6.8	3.16	3.4	118	6.14E-04
HVT_07_3	HVT_07	Line-Area	1	3.30	41	6.8	3.16	3.4	134	6.14E-04
HVT_07_4	HVT_07	Line-Area	1	3.30	63	6.8	3.16	3.4	208	6.14E-04
HVT_07_5	HVT_07	Line-Area	1	3.30	274	6.8	3.16	3.4	904	6.14E-04
HVT_08_1	HVT_08	Line-Area	1	3.30	189	6.8	3.16	3.4	624	5.73E-04
HVT_08_2	HVT_08	Line-Area	1	3.30	70	6.8	3.16	3.4	232	5.73E-04
HVT_08_3	HVT_08	Line-Area	1	3.30	159	6.8	3.16	3.4	524	5.73E-04
HVT_08_4	HVT_08	Line-Area	1	3.30	111	6.8	3.16	3.4	365	5.73E-04
HVT_09_1	HVT_09	Line-Area	2	6.60	168	6.8	3.16	3.4	1,110	5.34E-04
HVT_09_2	HVT_09	Line-Area	2	6.60	73	6.8	3.16	3.4	479	5.34E-04
HVT_09_3	HVT_09	Line-Area	2	6.60	43	6.8	3.16	3.4	282	5.34E-04

Notes:

- ¹ See **Figure 2** for graphical representations of Construction Hauling and Vendor Truck Travel sources. Operating hours for modeled emission sources are 7:00 AM - 7:00 PM on weekdays and 8:00 AM - 5:00 PM on weekends.
- ² Road width is estimated as a product of the number of lanes and width of a lane. The width of the lane is defined as 3.3 meters based on the USEPA Transportation Conformity Guidance.
- ³ The vertical dimension is assumed to be equal to 1.7 times the vehicle height for truck travel, per the USEPA Transportation Conformity Guidance. Vehicle height is based on the USEPA Transportation Conformity Guidance.
- ⁴ The initial vertical dimension, Sigma Z, for truck travel is estimated as the vertical dimension divided by 2.15 based on the USEPA Transportation Conformity Guidance.
- ⁵ The release height for on-road sources is estimated as half of the vertical dimension, based on the USEPA Transportation Conformity Guidance.
- ⁶ Each AERMOD source group is modeled with a 1 gram per second emission rate.

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model
g - grams
m - meters
PM₁₀ - particulate matter less than 10 microns in diameter
PM_{2.5} - particulate matter less than 2.5 microns in diameter
s - second
USEPA - United States Environmental Protection Agency

References:

USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. November. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1013C6A.pdf>. Accessed: June 2025.

Table D-4. Area Source Parameters for Concrete Truck Travel
El Dorado Hills Costco Project
El Dorado Hills, California

AERMOD Source ID ¹	AERMOD Source Group	Source Type	Lane Count	Width ² (m)	Length (m)	Vertical Dimension ³ (m)	Initial Vertical Dimension, Sigma Z ⁴ (m)	Release Height ⁵ (m)	Total Area of Source (m ²)	Modeled Emission Rate ⁶ (g/s/m ²)
CT_01_1	CT_01	Line-Area	1	3.30	107	6.8	3.16	3.4	354	5.01E-04
CT_01_2	CT_01	Line-Area	1	3.30	177	6.8	3.16	3.4	584	5.01E-04
CT_01_3	CT_01	Line-Area	1	3.30	68	6.8	3.16	3.4	226	5.01E-04
CT_01_4	CT_01	Line-Area	1	3.30	108	6.8	3.16	3.4	358	5.01E-04
CT_01_5	CT_01	Line-Area	1	3.30	55	6.8	3.16	3.4	182	5.01E-04
CT_01_6	CT_01	Line-Area	1	3.30	88	6.8	3.16	3.4	292	5.01E-04
CT_02_1	CT_02	Line-Area	2	6.60	83	6.8	3.16	3.4	548	5.40E-04
CT_02_2	CT_02	Line-Area	2	6.60	89	6.8	3.16	3.4	587	5.40E-04
CT_02_3	CT_02	Line-Area	2	6.60	44	6.8	3.16	3.4	289	5.40E-04
CT_02_4	CT_02	Line-Area	2	6.60	65	6.8	3.16	3.4	428	5.40E-04
CT_03_1	CT_03	Line-Area	1	3.30	57	6.8	3.16	3.4	188	4.88E-04
CT_03_2	CT_03	Line-Area	1	3.30	564	6.8	3.16	3.4	1,861	4.88E-04
CT_04_1	CT_04	Line-Area	4	13.20	43	6.8	3.16	3.4	562	1.56E-04
CT_04_2	CT_04	Line-Area	4	13.20	155	6.8	3.16	3.4	2,051	1.56E-04
CT_04_3	CT_04	Line-Area	4	13.20	137	6.8	3.16	3.4	1,815	1.56E-04
CT_04_4	CT_04	Line-Area	4	13.20	149	6.8	3.16	3.4	1,969	1.56E-04
CT_05_1	CT_05	Line-Area	1	3.30	109	6.8	3.16	3.4	360	6.36E-04
CT_05_2	CT_05	Line-Area	1	3.30	135	6.8	3.16	3.4	446	6.36E-04
CT_05_3	CT_05	Line-Area	1	3.30	145	6.8	3.16	3.4	478	6.36E-04
CT_05_4	CT_05	Line-Area	1	3.30	87	6.8	3.16	3.4	289	6.36E-04
CT_06_1	CT_06	Line-Area	2	6.60	164	6.8	3.16	3.4	1,082	5.68E-04
CT_06_2	CT_06	Line-Area	2	6.60	103	6.8	3.16	3.4	679	5.68E-04
CT_07_1	CT_07	Line-Area	1	3.30	80	6.8	3.16	3.4	264	6.14E-04
CT_07_2	CT_07	Line-Area	1	3.30	36	6.8	3.16	3.4	118	6.14E-04
CT_07_3	CT_07	Line-Area	1	3.30	41	6.8	3.16	3.4	134	6.14E-04
CT_07_4	CT_07	Line-Area	1	3.30	63	6.8	3.16	3.4	208	6.14E-04
CT_07_5	CT_07	Line-Area	1	3.30	274	6.8	3.16	3.4	904	6.14E-04
CT_08_1	CT_08	Line-Area	1	3.30	189	6.8	3.16	3.4	624	5.73E-04
CT_08_2	CT_08	Line-Area	1	3.30	70	6.8	3.16	3.4	232	5.73E-04
CT_08_3	CT_08	Line-Area	1	3.30	159	6.8	3.16	3.4	524	5.73E-04
CT_08_4	CT_08	Line-Area	1	3.30	111	6.8	3.16	3.4	365	5.73E-04
CT_09_1	CT_09	Line-Area	2	6.60	168	6.8	3.16	3.4	1,110	5.34E-04
CT_09_2	CT_09	Line-Area	2	6.60	73	6.8	3.16	3.4	479	5.34E-04
CT_09_3	CT_09	Line-Area	2	6.60	43	6.8	3.16	3.4	282	5.34E-04

Notes:

- ¹ See **Figure 2** for graphical representations of Concrete Delivery Truck Travel sources. Operating hours for modeled emission sources are 12:00 AM - 7:00 AM daily.
- ² Road width is estimated as a product of the number of lanes and width of a lane. The width of the lane is defined as 3.3 meters based on the USEPA Transportation Conformity Guidance.
- ³ The vertical dimension is assumed to be equal to 1.7 times the vehicle height for truck travel, per the USEPA Transportation Conformity Guidance. Vehicle height is based on the USEPA Transportation Conformity Guidance.
- ⁴ The initial vertical dimension, Sigma Z, for truck travel is estimated as the vertical dimension divided by 2.15 based on the USEPA Transportation Conformity Guidance.
- ⁵ The release height for on-road sources is estimated as half of the vertical dimension, based on the USEPA Transportation Conformity Guidance.
- ⁶ Each AERMOD source group is modeled with a 1 gram per second emission rate.

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model

g - grams

m - meters

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

s - second

USEPA - United States Environmental Protection Agency

References:

USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. November. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P1013C6A.pdf>. Accessed: June 2025.

Table D-5. Area Source Parameters for Fuel Delivery Truck Travel
El Dorado Hills Costco Project
El Dorado Hills, California

AERMOD Source ID ¹	AERMOD Source Group	Source Type	Lane Count	Width ² (m)	Length (m)	Vertical Dimension ³ (m)	Initial Vertical Dimension, Sigma Z ⁴ (m)	Release Height ⁵ (m)	Total Area of Source (m ²)	Modeled Emission Rate ⁶ (g/s/m ²)
FT_01_1	FT_01	Line-Area	1	3.30	107	6.8	3.16	3.4	354	5.01E-04
FT_01_2	FT_01	Line-Area	1	3.30	177	6.8	3.16	3.4	584	5.01E-04
FT_01_3	FT_01	Line-Area	1	3.30	68	6.8	3.16	3.4	226	5.01E-04
FT_01_4	FT_01	Line-Area	1	3.30	108	6.8	3.16	3.4	358	5.01E-04
FT_01_5	FT_01	Line-Area	1	3.30	55	6.8	3.16	3.4	182	5.01E-04
FT_01_6	FT_01	Line-Area	1	3.30	88	6.8	3.16	3.4	292	5.01E-04
FT_02_1	FT_02	Line-Area	2	6.60	26	6.8	3.16	3.4	172	5.19E-04
FT_02_2	FT_02	Line-Area	2	6.60	98	6.8	3.16	3.4	647	5.19E-04
FT_02_3	FT_02	Line-Area	2	6.60	168	6.8	3.16	3.4	1,108	5.19E-04
FT_03_1	FT_03	Line-Area	4	13.20	126	6.8	3.16	3.4	1,664	2.83E-04
FT_03_2	FT_03	Line-Area	4	13.20	77	6.8	3.16	3.4	1,017	2.83E-04
FT_03_3	FT_03	Line-Area	4	13.20	65	6.8	3.16	3.4	854	2.83E-04
FT_04_1	FT_04	Line-Area	2	6.60	216	6.8	3.16	3.4	1,424	7.02E-04
FT_05_1	FT_05	Line-Area	1	3.30	109	6.8	3.16	3.4	360	6.36E-04
FT_05_2	FT_05	Line-Area	1	3.30	135	6.8	3.16	3.4	446	6.36E-04
FT_05_3	FT_05	Line-Area	1	3.30	145	6.8	3.16	3.4	478	6.36E-04
FT_05_4	FT_05	Line-Area	1	3.30	87	6.8	3.16	3.4	289	6.36E-04
FT_A_1	FT_A	Line-Area	1	3.30	10	6.8	3.16	3.4	32	8.34E-04
FT_A_2	FT_A	Line-Area	1	3.30	53	6.8	3.16	3.4	174	8.34E-04
FT_A_3	FT_A	Line-Area	1	3.30	7	6.8	3.16	3.4	24	8.34E-04
FT_A_4	FT_A	Line-Area	1	3.30	9	6.8	3.16	3.4	31	8.34E-04
FT_A_5	FT_A	Line-Area	1	3.30	69	6.8	3.16	3.4	228	8.34E-04
FT_A_6	FT_A	Line-Area	1	3.30	21	6.8	3.16	3.4	68	8.34E-04
FT_A_7	FT_A	Line-Area	1	3.30	46	6.8	3.16	3.4	151	8.34E-04
FT_A_8	FT_A	Line-Area	1	3.30	17	6.8	3.16	3.4	57	8.34E-04
FT_A_9	FT_A	Line-Area	1	3.30	27	6.8	3.16	3.4	88	8.34E-04
FT_A_10	FT_A	Line-Area	1	3.30	8	6.8	3.16	3.4	27	8.34E-04
FT_A_11	FT_A	Line-Area	1	3.30	8	6.8	3.16	3.4	26	8.34E-04
FT_A_12	FT_A	Line-Area	1	3.30	39	6.8	3.16	3.4	127	8.34E-04
FT_A_13	FT_A	Line-Area	1	3.30	50	6.8	3.16	3.4	165	8.34E-04

Notes:

- ¹ See **Figure 3** for graphical representations of Fuel Delivery Truck Travel sources. Operating hours for modeled emission sources are 5:00 AM - 10:00 PM daily.
- ² Road width is estimated as a product of the number of lanes and width of a lane. The width of the lane is defined as 3.3 meters based on the USEPA Transportation Conformity Guidance.
- ³ The vertical dimension is assumed to be equal to 1.7 times the vehicle height for truck travel, per the USEPA Transportation Conformity Guidance. Vehicle height is based on the USEPA Transportation Conformity Guidance.
- ⁴ The initial vertical dimension, Sigma Z, for truck travel is estimated as the vertical dimension divided by 2.15 based on the USEPA Transportation Conformity Guidance.
- ⁵ The release height for on-road sources is estimated as half of the vertical dimension, based on the USEPA Transportation Conformity Guidance.
- ⁶ Each AERMOD source group is modeled with a 1 gram per second emission rate.

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model
g - grams
m - meters
PM₁₀ - particulate matter less than 10 microns in diameter
PM_{2.5} - particulate matter less than 2.5 microns in diameter
s - second
USEPA - United States Environmental Protection Agency

References:

USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. November. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1013C6A.pdf>. Accessed: June 2025.

Table D-6. Area Source Parameters for Warehouse and Tire Center Delivery Truck Travel
El Dorado Hills Costco Project
El Dorado Hills, California

AERMOD Source ID ¹	AERMOD Source Group ²	Source Type	Lane Count	Width ³ (m)	Length (m)	Vertical Dimension ⁴ (m)	Initial Vertical Dimension, Sigma Z ⁵ (m)	Release Height ⁶ (m)	Total Area of Source (m ²)	Modeled Emission Rate ⁷ (g/s/m ²)
WT_01_1	WT_01	Line-Area	1	3.30	107	6.8	3.16	3.4	354	5.01E-04
WT_01_2	WT_01	Line-Area	1	3.30	177	6.8	3.16	3.4	584	5.01E-04
WT_01_3	WT_01	Line-Area	1	3.30	68	6.8	3.16	3.4	226	5.01E-04
WT_01_4	WT_01	Line-Area	1	3.30	108	6.8	3.16	3.4	358	5.01E-04
WT_01_5	WT_01	Line-Area	1	3.30	55	6.8	3.16	3.4	182	5.01E-04
WT_01_6	WT_01	Line-Area	1	3.30	88	6.8	3.16	3.4	292	5.01E-04
WT_02_1	WT_02	Line-Area	2	6.60	83	6.8	3.16	3.4	548	5.40E-04
WT_02_2	WT_02	Line-Area	2	6.60	89	6.8	3.16	3.4	587	5.40E-04
WT_02_3	WT_02	Line-Area	2	6.60	44	6.8	3.16	3.4	289	5.40E-04
WT_02_4	WT_02	Line-Area	2	6.60	65	6.8	3.16	3.4	428	5.40E-04
WT_03_1	WT_03	Line-Area	1	3.30	57	6.8	3.16	3.4	188	6.61E-04
WT_03_2	WT_03	Line-Area	1	3.30	401	6.8	3.16	3.4	1,324	6.61E-04
WT_04_1	WT_04	Line-Area	2	6.60	164	6.8	3.16	3.4	1,082	2.87E-04
WT_04_2	WT_04	Line-Area	2	6.60	186	6.8	3.16	3.4	1,230	2.87E-04
WT_04_3	WT_04	Line-Area	2	6.60	105	6.8	3.16	3.4	693	2.87E-04
WT_04_4	WT_04	Line-Area	2	6.60	73	6.8	3.16	3.4	484	2.87E-04
WT_05_1	WT_05	Line-Area	2	6.60	120	6.8	3.16	3.4	791	2.70E-04
WT_05_2	WT_05	Line-Area	2	6.60	155	6.8	3.16	3.4	1,025	2.70E-04
WT_05_3	WT_05	Line-Area	2	6.60	137	6.8	3.16	3.4	907	2.70E-04
WT_05_4	WT_05	Line-Area	2	6.60	149	6.8	3.16	3.4	985	2.70E-04
WT_06_1	WT_06	Line-Area	1	3.30	109	6.8	3.16	3.4	360	6.36E-04
WT_06_2	WT_06	Line-Area	1	3.30	135	6.8	3.16	3.4	446	6.36E-04
WT_06_3	WT_06	Line-Area	1	3.30	145	6.8	3.16	3.4	478	6.36E-04
WT_06_4	WT_06	Line-Area	1	3.30	87	6.8	3.16	3.4	289	6.36E-04
WT_07_1	WT_07	Line-Area	2	6.60	40	6.8	3.16	3.4	264	7.30E-04
WT_07_2	WT_07	Line-Area	2	6.60	13	6.8	3.16	3.4	86	7.30E-04
WT_07_3	WT_07	Line-Area	2	6.60	11	6.8	3.16	3.4	73	7.30E-04
WT_07_4	WT_07	Line-Area	2	6.60	39	6.8	3.16	3.4	256	7.30E-04
WT_07_5	WT_07	Line-Area	2	6.60	22	6.8	3.16	3.4	145	7.30E-04
WT_07_6	WT_07	Line-Area	2	6.60	17	6.8	3.16	3.4	109	7.30E-04
WT_07_7	WT_07	Line-Area	2	6.60	13	6.8	3.16	3.4	87	7.30E-04
WT_07_8	WT_07	Line-Area	2	6.60	18	6.8	3.16	3.4	122	7.30E-04
WT_07_9	WT_07	Line-Area	2	6.60	34	6.8	3.16	3.4	227	7.30E-04
WT_08_1	WT_08	Line-Area	2	6.60	19	6.8	3.16	3.4	123	8.37E-04
WT_08_2	WT_08	Line-Area	2	6.60	8	6.8	3.16	3.4	50	8.37E-04
WT_08_3	WT_08	Line-Area	2	6.60	22	6.8	3.16	3.4	146	8.37E-04
WT_08_4	WT_08	Line-Area	2	6.60	18	6.8	3.16	3.4	119	8.37E-04
WT_08_5	WT_08	Line-Area	2	6.60	28	6.8	3.16	3.4	185	8.37E-04
WT_08_6	WT_08	Line-Area	2	6.60	24	6.8	3.16	3.4	156	8.37E-04
WT_08_7	WT_08	Line-Area	2	6.60	19	6.8	3.16	3.4	124	8.37E-04
WT_08_8	WT_08	Line-Area	2	6.60	16	6.8	3.16	3.4	105	8.37E-04
WT_08_9	WT_08	Line-Area	2	6.60	28	6.8	3.16	3.4	188	8.37E-04
WT_09_1	WT_09	Line-Area	2	6.60	211	6.8	3.16	3.4	1,390	7.19E-04

Notes:

- ¹ See **Figure 4** for graphical representations of Warehouse Truck and Transport Refrigeration Units (TRUs) Travel sources. Operating hours for modeled emission sources are 2:00 AM - 1:00 PM daily.
- ² TRU travel source parameters are assumed to be the same as that of the warehouse truck on which they are mounted during truck travel. This is consistent with CARB's modeling assumptions in Appendix I of the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate.
- ³ Road width is estimated as a product of the number of lanes and width of a lane. The width of the lane is defined as 3.3 meters based on the USEPA Transportation Conformity Guidance.
- ⁴ The vertical dimension is assumed to be equal to 1.7 times the vehicle height for truck travel, per the USEPA Transportation Conformity Guidance. Vehicle height is based on the USEPA Transportation Conformity Guidance.
- ⁵ The initial vertical dimension, Sigma Z, for truck travel is estimated as the vertical dimension divided by 2.15 based on the USEPA Transportation Conformity Guidance.
- ⁶ The release height for on-road sources is estimated as half of the vertical dimension, based on the USEPA Transportation Conformity Guidance.
- ⁷ Each AERMOD source group is modeled with a 1 gram per second emission rate.

Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model	m - meters
ATCM - Airborne Toxic Control Measure	PM ₁₀ - particulate matter less than 10 microns in diameter
CARB - California Air Resources Board	PM _{2.5} - particulate matter less than 2.5 microns in diameter
g - grams	s - second
	USEPA - United States Environmental Protection Agency

References:

CARB. 2021. Appendix I to the Proposed Amendments to the ATCM Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate, Table II.G.4. AERMOD Source Inputs - Cold Storage Warehouse. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: June 2025.

USEPA. 2021. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas Appendices. November. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1013C6A.pdf>. Accessed: June 2025.

Table D-7. Point Sources Parameters

El Dorado Hills Costco Project

El Dorado Hills, California

Modeled Emission Source ¹	Operating Hours for Modeled Emission Sources	AERMOD Source ID ¹	AERMOD Source Group	Stack Height ^{2,3} (m)	Stack Temperature ^{2,3} (K)	Exit Velocity ^{2,3} (m/s)	Stack Diameter ^{2,3} (m)	Modeled Emission Rate (g/s)
GDF Loading	5:00 AM -10:00 PM daily	LOADING	LOADING	3.66	291	0.001	0.0508	1
GDF Breathing	Anytime (24-hours daily)	BREATH	BREATH	3.66	289	0.001	0.0508	1
Generator 1	Anytime (24-hours daily)	GEN1	GEN1	3.66	740	45.3	0.183	1
Generator 2	Anytime (24-hours daily)	GEN2	GEN2	3.66	740	45.3	0.183	1

Notes:¹ See **Figure 5** for a graphical representation of the modeled sources.² Stack parameters for GDF loading and breathing are based on CARB and CAPCOA Gasoline Service Station Industrywide Risk Assessment Guidelines.³ Stack parameters for generators are based on generator defaults from the BAAQMD CEQA Guidelines Appendix E: Recommended Methods For Screening and Modeling Local Risks and Hazards.Abbreviations:

AERMOD - American Meteorological Society/Environmental Protection Agency Regulatory Model

BAAQMD - Bay Area Air Quality Management District

CAPCOA - California Air Pollution Control Officers Association

CARB - California Air Resources Board

g - grams

GDF - gasoline dispensing facility

K - Kelvin

m - meters

s - second

References:

BAAQMD. 2023. Bay Area Air Quality Management District California Environmental Quality Act Air Quality Guidelines. Available at:

https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?rev=b8917a27345a4a629fc18fc8650951e4&sc_lang=en. Accessed: June 2025.

CARB and CAPCOA, 2022. Gasoline Service Station Industrywide Risk Assessment Guidelines. Available at:

https://ww2.arb.ca.gov/sites/default/files/2022-03/Draft%202022%20Gas%20Station%20IWG%20-%20Technical%20Guidance_ADA%20Compliant.pdf. Accessed: June 2025.

APPENDIX E HARP2 OUTPUTS

List of Tables

- Table E-1: Health Risk Assessment Results for All Receptors – Unmitigated Project Construction and Operation
- Table E-2: Health Risk Assessment Results for All Receptors – Mitigated Project Construction and Operation

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1	668989.0	4280225.0	Roadway/Open Space	-	-	0.02
2	668999.0	4280225.0	Roadway/Open Space	-	-	0.02
3	669009.0	4280225.0	Roadway/Open Space	-	-	0.02
4	669019.0	4280225.0	Roadway/Open Space	-	-	0.01
5	669029.0	4280225.0	Roadway/Open Space	-	-	0.01
6	669039.0	4280225.0	Roadway/Open Space	-	-	0.01
7	669049.0	4280225.0	Roadway/Open Space	-	-	0.01
8	669059.0	4280225.0	Roadway/Open Space	-	-	0.01
9	669069.0	4280225.0	Roadway/Open Space	-	-	0.01
10	669079.0	4280225.0	Roadway/Open Space	-	-	0.01
11	669089.0	4280225.0	Roadway/Open Space	-	-	0.01
12	669099.0	4280225.0	Roadway/Open Space	-	-	0.01
13	668949.0	4280235.0	Roadway/Open Space	-	-	0.02
14	668959.0	4280235.0	Roadway/Open Space	-	-	0.02
15	668969.0	4280235.0	Roadway/Open Space	-	-	0.02
16	668979.0	4280235.0	Roadway/Open Space	-	-	0.02
17	668989.0	4280235.0	Roadway/Open Space	-	-	0.02
18	668999.0	4280235.0	Roadway/Open Space	-	-	0.02
19	669009.0	4280235.0	Roadway/Open Space	-	-	0.02
20	669019.0	4280235.0	Roadway/Open Space	-	-	0.01
21	669029.0	4280235.0	Roadway/Open Space	-	-	0.01
22	669039.0	4280235.0	Roadway/Open Space	-	-	0.01
23	669049.0	4280235.0	Roadway/Open Space	-	-	0.01
24	669059.0	4280235.0	Roadway/Open Space	-	-	0.01
25	669069.0	4280235.0	Roadway/Open Space	-	-	0.01
26	669079.0	4280235.0	Roadway/Open Space	-	-	0.01
27	669089.0	4280235.0	Roadway/Open Space	-	-	0.01
28	669099.0	4280235.0	Roadway/Open Space	-	-	0.01
29	669109.0	4280235.0	Roadway/Open Space	-	-	0.01
30	669119.0	4280235.0	Roadway/Open Space	-	-	0.01
31	669129.0	4280235.0	Roadway/Open Space	-	-	0.01
32	669139.0	4280235.0	Roadway/Open Space	-	-	0.01
33	669149.0	4280235.0	Roadway/Open Space	-	-	0.01
34	668909.0	4280245.0	Roadway/Open Space	-	-	0.02
35	668919.0	4280245.0	Roadway/Open Space	-	-	0.02
36	668929.0	4280245.0	Roadway/Open Space	-	-	0.02
37	668939.0	4280245.0	Roadway/Open Space	-	-	0.02
38	668949.0	4280245.0	Roadway/Open Space	-	-	0.02
39	668959.0	4280245.0	Roadway/Open Space	-	-	0.02
40	668969.0	4280245.0	Roadway/Open Space	-	-	0.02
41	668979.0	4280245.0	Roadway/Open Space	-	-	0.02
42	668989.0	4280245.0	Roadway/Open Space	-	-	0.02
43	668999.0	4280245.0	Roadway/Open Space	-	-	0.02
44	669009.0	4280245.0	Roadway/Open Space	-	-	0.01
45	669019.0	4280245.0	Roadway/Open Space	-	-	0.01
46	669029.0	4280245.0	Roadway/Open Space	-	-	0.01
47	669039.0	4280245.0	Roadway/Open Space	-	-	0.01
48	669049.0	4280245.0	Roadway/Open Space	-	-	0.01
49	669059.0	4280245.0	Roadway/Open Space	-	-	0.01
50	669069.0	4280245.0	Roadway/Open Space	-	-	0.01
51	669079.0	4280245.0	Roadway/Open Space	-	-	0.01
52	669089.0	4280245.0	Roadway/Open Space	-	-	0.01
53	669099.0	4280245.0	Roadway/Open Space	-	-	0.01
54	669109.0	4280245.0	Roadway/Open Space	-	-	0.01
55	669119.0	4280245.0	Roadway/Open Space	-	-	0.01
56	669129.0	4280245.0	Roadway/Open Space	-	-	0.01
57	669139.0	4280245.0	Roadway/Open Space	-	-	0.01
58	669149.0	4280245.0	Roadway/Open Space	-	-	0.01
59	669159.0	4280245.0	Roadway/Open Space	-	-	0.01
60	669169.0	4280245.0	Roadway/Open Space	-	-	0.01
61	669179.0	4280245.0	Roadway/Open Space	-	-	0.01
62	668889.0	4280255.0	Roadway/Open Space	-	-	0.02
63	668899.0	4280255.0	Roadway/Open Space	-	-	0.02
64	668909.0	4280255.0	Roadway/Open Space	-	-	0.02
65	668919.0	4280255.0	Roadway/Open Space	-	-	0.02
66	668929.0	4280255.0	Roadway/Open Space	-	-	0.02
67	668939.0	4280255.0	Roadway/Open Space	-	-	0.02
68	668949.0	4280255.0	Roadway/Open Space	-	-	0.02
69	668959.0	4280255.0	Roadway/Open Space	-	-	0.02
70	668969.0	4280255.0	Roadway/Open Space	-	-	0.02
71	668979.0	4280255.0	Roadway/Open Space	-	-	0.02
72	668989.0	4280255.0	Roadway/Open Space	-	-	0.02
73	668999.0	4280255.0	Roadway/Open Space	-	-	0.02
74	669009.0	4280255.0	Roadway/Open Space	-	-	0.01
75	669019.0	4280255.0	Roadway/Open Space	-	-	0.01
76	669029.0	4280255.0	Roadway/Open Space	-	-	0.01
77	669039.0	4280255.0	Roadway/Open Space	-	-	0.01
78	669049.0	4280255.0	Roadway/Open Space	-	-	0.01
79	669059.0	4280255.0	Roadway/Open Space	-	-	0.01
80	669069.0	4280255.0	Roadway/Open Space	-	-	0.01
81	669079.0	4280255.0	Roadway/Open Space	-	-	0.01
82	669089.0	4280255.0	Roadway/Open Space	-	-	0.01
83	669099.0	4280255.0	Roadway/Open Space	-	-	0.01
84	669109.0	4280255.0	Roadway/Open Space	-	-	0.01

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
85	669119.0	4280255.0	Roadway/Open Space	-	-	0.01
86	669129.0	4280255.0	Roadway/Open Space	-	-	0.01
87	669139.0	4280255.0	Roadway/Open Space	-	-	0.01
88	669149.0	4280255.0	Roadway/Open Space	-	-	0.01
89	669159.0	4280255.0	Roadway/Open Space	-	-	0.01
90	669169.0	4280255.0	Roadway/Open Space	-	-	0.01
91	669179.0	4280255.0	Roadway/Open Space	-	-	0.01
92	669189.0	4280255.0	Roadway/Open Space	-	-	0.01
93	669199.0	4280255.0	Roadway/Open Space	-	-	0.01
94	669209.0	4280255.0	Roadway/Open Space	-	-	0.01
95	668869.0	4280265.0	Roadway/Open Space	-	-	0.02
96	668879.0	4280265.0	Roadway/Open Space	-	-	0.02
97	668889.0	4280265.0	Roadway/Open Space	-	-	0.02
98	668899.0	4280265.0	Roadway/Open Space	-	-	0.02
99	668909.0	4280265.0	Roadway/Open Space	-	-	0.02
100	668919.0	4280265.0	Roadway/Open Space	-	-	0.02
101	668929.0	4280265.0	Roadway/Open Space	-	-	0.02
102	668939.0	4280265.0	Roadway/Open Space	-	-	0.02
103	668949.0	4280265.0	Roadway/Open Space	-	-	0.02
104	668959.0	4280265.0	Roadway/Open Space	-	-	0.02
105	668969.0	4280265.0	Roadway/Open Space	-	-	0.02
106	668979.0	4280265.0	Roadway/Open Space	-	-	0.02
107	668989.0	4280265.0	Roadway/Open Space	-	-	0.02
108	668999.0	4280265.0	Roadway/Open Space	-	-	0.02
109	669009.0	4280265.0	Roadway/Open Space	-	-	0.01
110	669019.0	4280265.0	Roadway/Open Space	-	-	0.01
111	669029.0	4280265.0	Roadway/Open Space	-	-	0.01
112	669039.0	4280265.0	Roadway/Open Space	-	-	0.01
113	669049.0	4280265.0	Roadway/Open Space	-	-	0.01
114	669059.0	4280265.0	Roadway/Open Space	-	-	0.01
115	669069.0	4280265.0	Roadway/Open Space	-	-	0.01
116	669079.0	4280265.0	Roadway/Open Space	-	-	0.01
117	669089.0	4280265.0	Roadway/Open Space	-	-	0.01
118	669099.0	4280265.0	Roadway/Open Space	-	-	0.01
119	669109.0	4280265.0	Roadway/Open Space	-	-	0.01
120	669119.0	4280265.0	Roadway/Open Space	-	-	0.01
121	669129.0	4280265.0	Roadway/Open Space	-	-	0.01
122	669139.0	4280265.0	Roadway/Open Space	-	-	0.01
123	669149.0	4280265.0	Roadway/Open Space	-	-	0.01
124	669159.0	4280265.0	Roadway/Open Space	-	-	0.01
125	669169.0	4280265.0	Roadway/Open Space	-	-	0.01
126	669179.0	4280265.0	Roadway/Open Space	-	-	0.01
127	669189.0	4280265.0	Roadway/Open Space	-	-	0.01
128	669199.0	4280265.0	Roadway/Open Space	-	-	0.01
129	669209.0	4280265.0	Roadway/Open Space	-	-	0.01
130	669219.0	4280265.0	Roadway/Open Space	-	-	0.01
131	669229.0	4280265.0	Roadway/Open Space	-	-	0.01
132	668849.0	4280275.0	Roadway/Open Space	-	-	0.02
133	668859.0	4280275.0	Roadway/Open Space	-	-	0.02
134	668869.0	4280275.0	Roadway/Open Space	-	-	0.02
135	668879.0	4280275.0	Roadway/Open Space	-	-	0.02
136	668889.0	4280275.0	Roadway/Open Space	-	-	0.02
137	668899.0	4280275.0	Roadway/Open Space	-	-	0.02
138	668909.0	4280275.0	Roadway/Open Space	-	-	0.02
139	668919.0	4280275.0	Roadway/Open Space	-	-	0.02
140	668929.0	4280275.0	Roadway/Open Space	-	-	0.02
141	668939.0	4280275.0	Roadway/Open Space	-	-	0.02
142	668949.0	4280275.0	Roadway/Open Space	-	-	0.02
143	668959.0	4280275.0	Roadway/Open Space	-	-	0.02
144	668969.0	4280275.0	Roadway/Open Space	-	-	0.02
145	668979.0	4280275.0	Roadway/Open Space	-	-	0.02
146	668989.0	4280275.0	Roadway/Open Space	-	-	0.02
147	668999.0	4280275.0	Roadway/Open Space	-	-	0.02
148	669009.0	4280275.0	Roadway/Open Space	-	-	0.01
149	669019.0	4280275.0	Roadway/Open Space	-	-	0.01
150	669029.0	4280275.0	Roadway/Open Space	-	-	0.01
151	669039.0	4280275.0	Roadway/Open Space	-	-	0.01
152	669049.0	4280275.0	Roadway/Open Space	-	-	0.01
153	669059.0	4280275.0	Roadway/Open Space	-	-	0.01
154	669069.0	4280275.0	Roadway/Open Space	-	-	0.01
155	669079.0	4280275.0	Roadway/Open Space	-	-	0.01
156	669089.0	4280275.0	Roadway/Open Space	-	-	0.01
157	669099.0	4280275.0	Roadway/Open Space	-	-	0.01
158	669109.0	4280275.0	Roadway/Open Space	-	-	0.01
159	669119.0	4280275.0	Roadway/Open Space	-	-	0.01
160	669129.0	4280275.0	Roadway/Open Space	-	-	0.01
161	669139.0	4280275.0	Roadway/Open Space	-	-	0.01
162	669149.0	4280275.0	Roadway/Open Space	-	-	0.01
163	669159.0	4280275.0	Roadway/Open Space	-	-	0.01
164	669169.0	4280275.0	Roadway/Open Space	-	-	0.01
165	669179.0	4280275.0	Roadway/Open Space	-	-	0.01
166	669189.0	4280275.0	Roadway/Open Space	-	-	0.01
167	669199.0	4280275.0	Roadway/Open Space	-	-	0.01
168	669209.0	4280275.0	Roadway/Open Space	-	-	0.01

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
169	669219.0	4280275.0	Roadway/Open Space	-	-	0.01
170	669229.0	4280275.0	Roadway/Open Space	-	-	0.01
171	669239.0	4280275.0	Roadway/Open Space	-	-	0.01
172	669249.0	4280275.0	Roadway/Open Space	-	-	0.01
173	668829.0	4280285.0	Roadway/Open Space	-	-	0.02
174	668839.0	4280285.0	Roadway/Open Space	-	-	0.02
175	668849.0	4280285.0	Roadway/Open Space	-	-	0.02
176	668859.0	4280285.0	Roadway/Open Space	-	-	0.02
177	668869.0	4280285.0	Roadway/Open Space	-	-	0.02
178	668879.0	4280285.0	Roadway/Open Space	-	-	0.02
179	668889.0	4280285.0	Roadway/Open Space	-	-	0.02
180	668899.0	4280285.0	Roadway/Open Space	-	-	0.02
181	668909.0	4280285.0	Roadway/Open Space	-	-	0.02
182	668919.0	4280285.0	Roadway/Open Space	-	-	0.02
183	668929.0	4280285.0	Roadway/Open Space	-	-	0.02
184	668939.0	4280285.0	Roadway/Open Space	-	-	0.02
185	668949.0	4280285.0	Roadway/Open Space	-	-	0.02
186	668959.0	4280285.0	Roadway/Open Space	-	-	0.02
187	668969.0	4280285.0	Roadway/Open Space	-	-	0.02
188	668979.0	4280285.0	Roadway/Open Space	-	-	0.02
189	668989.0	4280285.0	Roadway/Open Space	-	-	0.02
190	668999.0	4280285.0	Roadway/Open Space	-	-	0.02
191	669009.0	4280285.0	Roadway/Open Space	-	-	0.02
192	669019.0	4280285.0	Roadway/Open Space	-	-	0.02
193	669029.0	4280285.0	Roadway/Open Space	-	-	0.01
194	669039.0	4280285.0	Roadway/Open Space	-	-	0.01
195	669049.0	4280285.0	Roadway/Open Space	-	-	0.01
196	669059.0	4280285.0	Roadway/Open Space	-	-	0.01
197	669069.0	4280285.0	Roadway/Open Space	-	-	0.01
198	669079.0	4280285.0	Roadway/Open Space	-	-	0.01
199	669089.0	4280285.0	Roadway/Open Space	-	-	0.01
200	669099.0	4280285.0	Roadway/Open Space	-	-	0.01
201	669109.0	4280285.0	Roadway/Open Space	-	-	0.01
202	669119.0	4280285.0	Roadway/Open Space	-	-	0.01
203	669129.0	4280285.0	Roadway/Open Space	-	-	0.01
204	669139.0	4280285.0	Roadway/Open Space	-	-	0.01
205	669149.0	4280285.0	Roadway/Open Space	-	-	0.01
206	669159.0	4280285.0	Roadway/Open Space	-	-	0.01
207	669169.0	4280285.0	Roadway/Open Space	-	-	0.01
208	669179.0	4280285.0	Roadway/Open Space	-	-	0.01
209	669189.0	4280285.0	Roadway/Open Space	-	-	0.01
210	669199.0	4280285.0	Roadway/Open Space	-	-	0.01
211	669209.0	4280285.0	Roadway/Open Space	-	-	0.01
212	669219.0	4280285.0	Roadway/Open Space	-	-	0.01
213	669229.0	4280285.0	Roadway/Open Space	-	-	0.01
214	669239.0	4280285.0	Roadway/Open Space	-	-	0.01
215	669249.0	4280285.0	Roadway/Open Space	-	-	0.01
216	669259.0	4280285.0	Roadway/Open Space	-	-	0.01
217	668819.0	4280295.0	Roadway/Open Space	-	-	0.02
218	668829.0	4280295.0	Roadway/Open Space	-	-	0.02
219	668839.0	4280295.0	Roadway/Open Space	-	-	0.02
220	668849.0	4280295.0	Roadway/Open Space	-	-	0.02
221	668859.0	4280295.0	Roadway/Open Space	-	-	0.02
222	668869.0	4280295.0	Roadway/Open Space	-	-	0.02
223	668879.0	4280295.0	Roadway/Open Space	-	-	0.02
224	668889.0	4280295.0	Roadway/Open Space	-	-	0.02
225	668899.0	4280295.0	Roadway/Open Space	-	-	0.02
226	668909.0	4280295.0	Roadway/Open Space	-	-	0.02
227	668919.0	4280295.0	Roadway/Open Space	-	-	0.02
228	668929.0	4280295.0	Roadway/Open Space	-	-	0.02
229	668939.0	4280295.0	Roadway/Open Space	-	-	0.02
230	668949.0	4280295.0	Roadway/Open Space	-	-	0.02
231	668959.0	4280295.0	Roadway/Open Space	-	-	0.02
232	668969.0	4280295.0	Roadway/Open Space	-	-	0.02
233	668979.0	4280295.0	Roadway/Open Space	-	-	0.02
234	668989.0	4280295.0	Roadway/Open Space	-	-	0.02
235	668999.0	4280295.0	Roadway/Open Space	-	-	0.02
236	669009.0	4280295.0	Roadway/Open Space	-	-	0.02
237	669019.0	4280295.0	Roadway/Open Space	-	-	0.02
238	669029.0	4280295.0	Roadway/Open Space	-	-	0.01
239	669039.0	4280295.0	Roadway/Open Space	-	-	0.01
240	669049.0	4280295.0	Roadway/Open Space	-	-	0.01
241	669059.0	4280295.0	Roadway/Open Space	-	-	0.01
242	669069.0	4280295.0	Roadway/Open Space	-	-	0.01
243	669079.0	4280295.0	Roadway/Open Space	-	-	0.01
244	669089.0	4280295.0	Roadway/Open Space	-	-	0.01
245	669099.0	4280295.0	Roadway/Open Space	-	-	0.01
246	669109.0	4280295.0	Roadway/Open Space	-	-	0.01
247	669119.0	4280295.0	Roadway/Open Space	-	-	0.01
248	669129.0	4280295.0	Roadway/Open Space	-	-	0.01
249	669139.0	4280295.0	Roadway/Open Space	-	-	0.01
250	669149.0	4280295.0	Roadway/Open Space	-	-	0.01
251	669159.0	4280295.0	Roadway/Open Space	-	-	0.01
252	669169.0	4280295.0	Roadway/Open Space	-	-	0.01

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
253	669179.0	4280295.0	Roadway/Open Space	-	-	0.01
254	669189.0	4280295.0	Roadway/Open Space	-	-	0.01
255	669199.0	4280295.0	Roadway/Open Space	-	-	0.01
256	669209.0	4280295.0	Roadway/Open Space	-	-	0.01
257	669219.0	4280295.0	Roadway/Open Space	-	-	0.01
258	669229.0	4280295.0	Roadway/Open Space	-	-	0.01
259	669239.0	4280295.0	Roadway/Open Space	-	-	0.01
260	669249.0	4280295.0	Roadway/Open Space	-	-	0.01
261	669259.0	4280295.0	Roadway/Open Space	-	-	0.01
262	669269.0	4280295.0	Roadway/Open Space	-	-	0.01
263	669279.0	4280295.0	Roadway/Open Space	-	-	0.01
264	668809.0	4280305.0	Roadway/Open Space	-	-	0.02
265	668819.0	4280305.0	Roadway/Open Space	-	-	0.02
266	668829.0	4280305.0	Roadway/Open Space	-	-	0.02
267	668839.0	4280305.0	Roadway/Open Space	-	-	0.02
268	668849.0	4280305.0	Roadway/Open Space	-	-	0.02
269	668859.0	4280305.0	Roadway/Open Space	-	-	0.02
270	668869.0	4280305.0	Roadway/Open Space	-	-	0.02
271	668879.0	4280305.0	Roadway/Open Space	-	-	0.02
272	668889.0	4280305.0	Roadway/Open Space	-	-	0.02
273	668899.0	4280305.0	Roadway/Open Space	-	-	0.02
274	668909.0	4280305.0	Roadway/Open Space	-	-	0.02
275	668919.0	4280305.0	Roadway/Open Space	-	-	0.02
276	668929.0	4280305.0	Roadway/Open Space	-	-	0.02
277	668939.0	4280305.0	Roadway/Open Space	-	-	0.02
278	668949.0	4280305.0	Roadway/Open Space	-	-	0.02
279	668959.0	4280305.0	Roadway/Open Space	-	-	0.02
280	668969.0	4280305.0	Roadway/Open Space	-	-	0.02
281	668979.0	4280305.0	Roadway/Open Space	-	-	0.02
282	668989.0	4280305.0	Roadway/Open Space	-	-	0.02
283	668999.0	4280305.0	Roadway/Open Space	-	-	0.02
284	669009.0	4280305.0	Roadway/Open Space	-	-	0.02
285	669019.0	4280305.0	Roadway/Open Space	-	-	0.02
286	669029.0	4280305.0	Roadway/Open Space	-	-	0.02
287	669039.0	4280305.0	Roadway/Open Space	-	-	0.01
288	669049.0	4280305.0	Roadway/Open Space	-	-	0.01
289	669059.0	4280305.0	Roadway/Open Space	-	-	0.01
290	669069.0	4280305.0	Roadway/Open Space	-	-	0.01
291	669079.0	4280305.0	Roadway/Open Space	-	-	0.01
292	669089.0	4280305.0	Roadway/Open Space	-	-	0.01
293	669099.0	4280305.0	Roadway/Open Space	-	-	0.01
294	669109.0	4280305.0	Roadway/Open Space	-	-	0.01
295	669119.0	4280305.0	Roadway/Open Space	-	-	0.01
296	669129.0	4280305.0	Roadway/Open Space	-	-	0.01
297	669139.0	4280305.0	Roadway/Open Space	-	-	0.01
298	669149.0	4280305.0	Roadway/Open Space	-	-	0.01
299	669159.0	4280305.0	Roadway/Open Space	-	-	0.01
300	669169.0	4280305.0	Roadway/Open Space	-	-	0.01
301	669179.0	4280305.0	Roadway/Open Space	-	-	0.01
302	669189.0	4280305.0	Roadway/Open Space	-	-	0.01
303	669199.0	4280305.0	Roadway/Open Space	-	-	0.01
304	669209.0	4280305.0	Roadway/Open Space	-	-	0.01
305	669219.0	4280305.0	Roadway/Open Space	-	-	0.01
306	669229.0	4280305.0	Roadway/Open Space	-	-	0.01
307	669239.0	4280305.0	Roadway/Open Space	-	-	0.01
308	669249.0	4280305.0	Roadway/Open Space	-	-	0.01
309	669259.0	4280305.0	Roadway/Open Space	-	-	0.01
310	669269.0	4280305.0	Roadway/Open Space	-	-	0.01
311	669279.0	4280305.0	Roadway/Open Space	-	-	0.01
312	669289.0	4280305.0	Roadway/Open Space	-	-	0.01
313	668789.0	4280315.0	Roadway/Open Space	-	-	0.02
314	668799.0	4280315.0	Roadway/Open Space	-	-	0.02
315	668809.0	4280315.0	Roadway/Open Space	-	-	0.02
316	668819.0	4280315.0	Roadway/Open Space	-	-	0.02
317	668829.0	4280315.0	Roadway/Open Space	-	-	0.02
318	668839.0	4280315.0	Roadway/Open Space	-	-	0.02
319	668849.0	4280315.0	Roadway/Open Space	-	-	0.02
320	668859.0	4280315.0	Roadway/Open Space	-	-	0.02
321	668869.0	4280315.0	Roadway/Open Space	-	-	0.02
322	668879.0	4280315.0	Roadway/Open Space	-	-	0.02
323	668889.0	4280315.0	Roadway/Open Space	-	-	0.02
324	668899.0	4280315.0	Roadway/Open Space	-	-	0.02
325	668909.0	4280315.0	Roadway/Open Space	-	-	0.02
326	668919.0	4280315.0	Roadway/Open Space	-	-	0.02
327	668929.0	4280315.0	Roadway/Open Space	-	-	0.02
328	668939.0	4280315.0	Roadway/Open Space	-	-	0.02
329	668949.0	4280315.0	Roadway/Open Space	-	-	0.02
330	668959.0	4280315.0	Roadway/Open Space	-	-	0.02
331	668969.0	4280315.0	Roadway/Open Space	-	-	0.02
332	668979.0	4280315.0	Roadway/Open Space	-	-	0.02
333	668989.0	4280315.0	Roadway/Open Space	-	-	0.02
334	668999.0	4280315.0	Roadway/Open Space	-	-	0.02
335	669009.0	4280315.0	Roadway/Open Space	-	-	0.02
336	669019.0	4280315.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
337	669029.0	4280315.0	Roadway/Open Space	-	-	0.02
338	669039.0	4280315.0	Roadway/Open Space	-	-	0.02
339	669049.0	4280315.0	Roadway/Open Space	-	-	0.02
340	669059.0	4280315.0	Roadway/Open Space	-	-	0.01
341	669069.0	4280315.0	Roadway/Open Space	-	-	0.01
342	669079.0	4280315.0	Roadway/Open Space	-	-	0.01
343	669089.0	4280315.0	Roadway/Open Space	-	-	0.01
344	669099.0	4280315.0	Roadway/Open Space	-	-	0.01
345	669109.0	4280315.0	Roadway/Open Space	-	-	0.01
346	669119.0	4280315.0	Roadway/Open Space	-	-	0.01
347	669129.0	4280315.0	Roadway/Open Space	-	-	0.01
348	669139.0	4280315.0	Roadway/Open Space	-	-	0.01
349	669149.0	4280315.0	Roadway/Open Space	-	-	0.01
350	669159.0	4280315.0	Roadway/Open Space	-	-	0.01
351	669169.0	4280315.0	Roadway/Open Space	-	-	0.01
352	669179.0	4280315.0	Roadway/Open Space	-	-	0.01
353	669189.0	4280315.0	Roadway/Open Space	-	-	0.01
354	669199.0	4280315.0	Roadway/Open Space	-	-	0.01
355	669209.0	4280315.0	Roadway/Open Space	-	-	0.01
356	669219.0	4280315.0	Roadway/Open Space	-	-	0.01
357	669229.0	4280315.0	Roadway/Open Space	-	-	0.01
358	669239.0	4280315.0	Roadway/Open Space	-	-	0.01
359	669249.0	4280315.0	Roadway/Open Space	-	-	0.01
360	669259.0	4280315.0	Roadway/Open Space	-	-	0.01
361	669269.0	4280315.0	Roadway/Open Space	-	-	0.01
362	669279.0	4280315.0	Roadway/Open Space	-	-	0.01
363	669289.0	4280315.0	Roadway/Open Space	-	-	0.01
364	669299.0	4280315.0	Roadway/Open Space	-	-	0.01
365	668779.0	4280325.0	Roadway/Open Space	-	-	0.02
366	668789.0	4280325.0	Roadway/Open Space	-	-	0.02
367	668799.0	4280325.0	Roadway/Open Space	-	-	0.02
368	668809.0	4280325.0	Roadway/Open Space	-	-	0.02
369	668819.0	4280325.0	Roadway/Open Space	-	-	0.02
370	668829.0	4280325.0	Worker	0.06	0.005	0.02
371	668839.0	4280325.0	Worker	0.06	0.005	0.02
372	668849.0	4280325.0	Worker	0.07	0.005	0.02
373	668859.0	4280325.0	Roadway/Open Space	-	-	0.02
374	668869.0	4280325.0	Roadway/Open Space	-	-	0.02
375	668879.0	4280325.0	Roadway/Open Space	-	-	0.02
376	668889.0	4280325.0	Roadway/Open Space	-	-	0.02
377	668899.0	4280325.0	Roadway/Open Space	-	-	0.02
378	668909.0	4280325.0	Roadway/Open Space	-	-	0.02
379	668919.0	4280325.0	Roadway/Open Space	-	-	0.02
380	668929.0	4280325.0	Roadway/Open Space	-	-	0.02
381	668939.0	4280325.0	Roadway/Open Space	-	-	0.02
382	668949.0	4280325.0	Roadway/Open Space	-	-	0.02
383	668959.0	4280325.0	Roadway/Open Space	-	-	0.02
384	668969.0	4280325.0	Roadway/Open Space	-	-	0.02
385	668979.0	4280325.0	Roadway/Open Space	-	-	0.02
386	668989.0	4280325.0	Roadway/Open Space	-	-	0.02
387	668999.0	4280325.0	Roadway/Open Space	-	-	0.02
388	669009.0	4280325.0	Roadway/Open Space	-	-	0.02
389	669019.0	4280325.0	Roadway/Open Space	-	-	0.02
390	669029.0	4280325.0	Roadway/Open Space	-	-	0.02
391	669039.0	4280325.0	Roadway/Open Space	-	-	0.02
392	669049.0	4280325.0	Roadway/Open Space	-	-	0.02
393	669059.0	4280325.0	Roadway/Open Space	-	-	0.02
394	669069.0	4280325.0	Roadway/Open Space	-	-	0.02
395	669079.0	4280325.0	Roadway/Open Space	-	-	0.01
396	669089.0	4280325.0	Roadway/Open Space	-	-	0.01
397	669099.0	4280325.0	Roadway/Open Space	-	-	0.01
398	669109.0	4280325.0	Roadway/Open Space	-	-	0.01
399	669119.0	4280325.0	Roadway/Open Space	-	-	0.01
400	669129.0	4280325.0	Roadway/Open Space	-	-	0.01
401	669139.0	4280325.0	Roadway/Open Space	-	-	0.01
402	669149.0	4280325.0	Roadway/Open Space	-	-	0.01
403	669159.0	4280325.0	Roadway/Open Space	-	-	0.01
404	669169.0	4280325.0	Roadway/Open Space	-	-	0.01
405	669179.0	4280325.0	Roadway/Open Space	-	-	0.01
406	669189.0	4280325.0	Roadway/Open Space	-	-	0.01
407	669199.0	4280325.0	Roadway/Open Space	-	-	0.01
408	669209.0	4280325.0	Roadway/Open Space	-	-	0.01
409	669219.0	4280325.0	Roadway/Open Space	-	-	0.01
410	669229.0	4280325.0	Roadway/Open Space	-	-	0.01
411	669239.0	4280325.0	Roadway/Open Space	-	-	0.01
412	669249.0	4280325.0	Roadway/Open Space	-	-	0.01
413	669259.0	4280325.0	Roadway/Open Space	-	-	0.01
414	669269.0	4280325.0	Roadway/Open Space	-	-	0.01
415	669279.0	4280325.0	Roadway/Open Space	-	-	0.01
416	669289.0	4280325.0	Roadway/Open Space	-	-	0.01
417	669299.0	4280325.0	Roadway/Open Space	-	-	0.01
418	669309.0	4280325.0	Roadway/Open Space	-	-	0.01
419	669319.0	4280325.0	Roadway/Open Space	-	-	0.01
420	668769.0	4280335.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
421	668779.0	4280335.0	Roadway/Open Space	-	-	0.02
422	668789.0	4280335.0	Roadway/Open Space	-	-	0.02
423	668799.0	4280335.0	Roadway/Open Space	-	-	0.02
424	668809.0	4280335.0	Worker	0.06	0.005	0.02
425	668819.0	4280335.0	Worker	0.06	0.005	0.02
426	668829.0	4280335.0	Worker	0.06	0.005	0.02
427	668839.0	4280335.0	Worker	0.07	0.005	0.02
428	668849.0	4280335.0	Worker	0.07	0.006	0.02
429	668859.0	4280335.0	Worker	0.07	0.006	0.02
430	668869.0	4280335.0	Worker	0.07	0.006	0.02
431	668879.0	4280335.0	Roadway/Open Space	-	-	0.02
432	668889.0	4280335.0	Roadway/Open Space	-	-	0.02
433	668899.0	4280335.0	Roadway/Open Space	-	-	0.02
434	668909.0	4280335.0	Roadway/Open Space	-	-	0.02
435	668919.0	4280335.0	Roadway/Open Space	-	-	0.02
436	668929.0	4280335.0	Roadway/Open Space	-	-	0.02
437	668939.0	4280335.0	Roadway/Open Space	-	-	0.02
438	668949.0	4280335.0	Roadway/Open Space	-	-	0.02
439	668959.0	4280335.0	Roadway/Open Space	-	-	0.02
440	668969.0	4280335.0	Roadway/Open Space	-	-	0.02
441	668979.0	4280335.0	Roadway/Open Space	-	-	0.02
442	668989.0	4280335.0	Roadway/Open Space	-	-	0.02
443	668999.0	4280335.0	Roadway/Open Space	-	-	0.02
444	669009.0	4280335.0	Roadway/Open Space	-	-	0.02
445	669019.0	4280335.0	Roadway/Open Space	-	-	0.02
446	669029.0	4280335.0	Roadway/Open Space	-	-	0.02
447	669039.0	4280335.0	Roadway/Open Space	-	-	0.02
448	669049.0	4280335.0	Roadway/Open Space	-	-	0.02
449	669059.0	4280335.0	Roadway/Open Space	-	-	0.02
450	669069.0	4280335.0	Roadway/Open Space	-	-	0.02
451	669079.0	4280335.0	Roadway/Open Space	-	-	0.02
452	669089.0	4280335.0	Roadway/Open Space	-	-	0.02
453	669099.0	4280335.0	Roadway/Open Space	-	-	0.01
454	669109.0	4280335.0	Roadway/Open Space	-	-	0.01
455	669119.0	4280335.0	Roadway/Open Space	-	-	0.01
456	669129.0	4280335.0	Roadway/Open Space	-	-	0.01
457	669139.0	4280335.0	Roadway/Open Space	-	-	0.01
458	669149.0	4280335.0	Roadway/Open Space	-	-	0.01
459	669159.0	4280335.0	Roadway/Open Space	-	-	0.01
460	669169.0	4280335.0	Roadway/Open Space	-	-	0.01
461	669179.0	4280335.0	Roadway/Open Space	-	-	0.01
462	669189.0	4280335.0	Roadway/Open Space	-	-	0.01
463	669199.0	4280335.0	Roadway/Open Space	-	-	0.01
464	669209.0	4280335.0	Roadway/Open Space	-	-	0.01
465	669219.0	4280335.0	Roadway/Open Space	-	-	0.01
466	669229.0	4280335.0	Roadway/Open Space	-	-	0.01
467	669239.0	4280335.0	Roadway/Open Space	-	-	0.01
468	669249.0	4280335.0	Roadway/Open Space	-	-	0.01
469	669259.0	4280335.0	Roadway/Open Space	-	-	0.01
470	669269.0	4280335.0	Roadway/Open Space	-	-	0.01
471	669279.0	4280335.0	Roadway/Open Space	-	-	0.01
472	669289.0	4280335.0	Roadway/Open Space	-	-	0.01
473	669299.0	4280335.0	Roadway/Open Space	-	-	0.01
474	669309.0	4280335.0	Roadway/Open Space	-	-	0.02
475	669319.0	4280335.0	Roadway/Open Space	-	-	0.02
476	669329.0	4280335.0	Roadway/Open Space	-	-	0.02
477	668759.0	4280345.0	Roadway/Open Space	-	-	0.02
478	668769.0	4280345.0	Roadway/Open Space	-	-	0.02
479	668779.0	4280345.0	Roadway/Open Space	-	-	0.02
480	668789.0	4280345.0	Roadway/Open Space	-	-	0.02
481	668799.0	4280345.0	Roadway/Open Space	-	-	0.02
482	668809.0	4280345.0	Worker	0.06	0.005	0.02
483	668819.0	4280345.0	Worker	0.06	0.005	0.02
484	668829.0	4280345.0	Worker	0.07	0.005	0.02
485	668839.0	4280345.0	Worker	0.07	0.006	0.02
486	668849.0	4280345.0	Worker	0.07	0.006	0.02
487	668859.0	4280345.0	Worker	0.07	0.006	0.02
488	668869.0	4280345.0	Worker	0.07	0.006	0.02
489	668879.0	4280345.0	Worker	0.07	0.006	0.02
490	668889.0	4280345.0	Worker	0.07	0.006	0.02
491	668899.0	4280345.0	Roadway/Open Space	-	-	0.02
492	668909.0	4280345.0	Roadway/Open Space	-	-	0.02
493	668919.0	4280345.0	Roadway/Open Space	-	-	0.02
494	668929.0	4280345.0	Roadway/Open Space	-	-	0.02
495	668939.0	4280345.0	Roadway/Open Space	-	-	0.02
496	668949.0	4280345.0	Roadway/Open Space	-	-	0.02
497	668959.0	4280345.0	Roadway/Open Space	-	-	0.02
498	668969.0	4280345.0	Roadway/Open Space	-	-	0.02
499	668979.0	4280345.0	Roadway/Open Space	-	-	0.02
500	668989.0	4280345.0	Roadway/Open Space	-	-	0.02
501	668999.0	4280345.0	Roadway/Open Space	-	-	0.02
502	669009.0	4280345.0	Roadway/Open Space	-	-	0.02
503	669019.0	4280345.0	Roadway/Open Space	-	-	0.02
504	669029.0	4280345.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
505	669039.0	4280345.0	Roadway/Open Space	-	-	0.02
506	669049.0	4280345.0	Roadway/Open Space	-	-	0.02
507	669059.0	4280345.0	Roadway/Open Space	-	-	0.02
508	669069.0	4280345.0	Roadway/Open Space	-	-	0.02
509	669079.0	4280345.0	Roadway/Open Space	-	-	0.02
510	669089.0	4280345.0	Roadway/Open Space	-	-	0.02
511	669099.0	4280345.0	Roadway/Open Space	-	-	0.02
512	669109.0	4280345.0	Roadway/Open Space	-	-	0.02
513	669119.0	4280345.0	Roadway/Open Space	-	-	0.01
514	669129.0	4280345.0	Roadway/Open Space	-	-	0.01
515	669139.0	4280345.0	Roadway/Open Space	-	-	0.01
516	669149.0	4280345.0	Roadway/Open Space	-	-	0.01
517	669159.0	4280345.0	Roadway/Open Space	-	-	0.01
518	669169.0	4280345.0	Roadway/Open Space	-	-	0.01
519	669179.0	4280345.0	Roadway/Open Space	-	-	0.01
520	669189.0	4280345.0	Roadway/Open Space	-	-	0.01
521	669199.0	4280345.0	Roadway/Open Space	-	-	0.01
522	669209.0	4280345.0	Roadway/Open Space	-	-	0.01
523	669219.0	4280345.0	Roadway/Open Space	-	-	0.01
524	669229.0	4280345.0	Roadway/Open Space	-	-	0.01
525	669239.0	4280345.0	Roadway/Open Space	-	-	0.01
526	669249.0	4280345.0	Roadway/Open Space	-	-	0.01
527	669259.0	4280345.0	Roadway/Open Space	-	-	0.01
528	669269.0	4280345.0	Roadway/Open Space	-	-	0.01
529	669279.0	4280345.0	Roadway/Open Space	-	-	0.01
530	669289.0	4280345.0	Roadway/Open Space	-	-	0.02
531	669299.0	4280345.0	Roadway/Open Space	-	-	0.02
532	669309.0	4280345.0	Roadway/Open Space	-	-	0.02
533	669319.0	4280345.0	Roadway/Open Space	-	-	0.02
534	669329.0	4280345.0	Roadway/Open Space	-	-	0.02
535	669339.0	4280345.0	Roadway/Open Space	-	-	0.02
536	668749.0	4280355.0	Roadway/Open Space	-	-	0.02
537	668759.0	4280355.0	Roadway/Open Space	-	-	0.02
538	668769.0	4280355.0	Roadway/Open Space	-	-	0.02
539	668779.0	4280355.0	Roadway/Open Space	-	-	0.02
540	668789.0	4280355.0	Roadway/Open Space	-	-	0.02
541	668799.0	4280355.0	Roadway/Open Space	-	-	0.02
542	668809.0	4280355.0	Worker	0.06	0.005	0.02
543	668819.0	4280355.0	Worker	0.07	0.005	0.02
544	668829.0	4280355.0	Worker	0.07	0.006	0.02
545	668839.0	4280355.0	Worker	0.07	0.006	0.02
546	668849.0	4280355.0	Worker	0.07	0.006	0.02
547	668859.0	4280355.0	Worker	0.07	0.006	0.02
548	668869.0	4280355.0	Worker	0.07	0.006	0.02
549	668879.0	4280355.0	Worker	0.07	0.006	0.02
550	668889.0	4280355.0	Worker	0.07	0.006	0.02
551	668899.0	4280355.0	Roadway/Open Space	-	-	0.02
552	668909.0	4280355.0	Roadway/Open Space	-	-	0.02
553	668919.0	4280355.0	Roadway/Open Space	-	-	0.02
554	668929.0	4280355.0	Roadway/Open Space	-	-	0.02
555	668939.0	4280355.0	Roadway/Open Space	-	-	0.02
556	668949.0	4280355.0	Roadway/Open Space	-	-	0.02
557	668959.0	4280355.0	Roadway/Open Space	-	-	0.02
558	668969.0	4280355.0	Roadway/Open Space	-	-	0.02
559	668979.0	4280355.0	Roadway/Open Space	-	-	0.02
560	668989.0	4280355.0	Roadway/Open Space	-	-	0.02
561	668999.0	4280355.0	Roadway/Open Space	-	-	0.02
562	669009.0	4280355.0	Roadway/Open Space	-	-	0.02
563	669019.0	4280355.0	Roadway/Open Space	-	-	0.02
564	669029.0	4280355.0	Roadway/Open Space	-	-	0.02
565	669039.0	4280355.0	Roadway/Open Space	-	-	0.02
566	669049.0	4280355.0	Roadway/Open Space	-	-	0.02
567	669059.0	4280355.0	Roadway/Open Space	-	-	0.02
568	669069.0	4280355.0	Roadway/Open Space	-	-	0.02
569	669079.0	4280355.0	Roadway/Open Space	-	-	0.02
570	669089.0	4280355.0	Roadway/Open Space	-	-	0.02
571	669099.0	4280355.0	Roadway/Open Space	-	-	0.02
572	669109.0	4280355.0	Roadway/Open Space	-	-	0.02
573	669119.0	4280355.0	Roadway/Open Space	-	-	0.02
574	669129.0	4280355.0	Roadway/Open Space	-	-	0.02
575	669139.0	4280355.0	Roadway/Open Space	-	-	0.02
576	669149.0	4280355.0	Roadway/Open Space	-	-	0.02
577	669159.0	4280355.0	Roadway/Open Space	-	-	0.02
578	669169.0	4280355.0	Roadway/Open Space	-	-	0.02
579	669179.0	4280355.0	Roadway/Open Space	-	-	0.01
580	669189.0	4280355.0	Roadway/Open Space	-	-	0.01
581	669199.0	4280355.0	Roadway/Open Space	-	-	0.01
582	669209.0	4280355.0	Roadway/Open Space	-	-	0.02
583	669219.0	4280355.0	Roadway/Open Space	-	-	0.01
584	669229.0	4280355.0	Roadway/Open Space	-	-	0.01
585	669239.0	4280355.0	Roadway/Open Space	-	-	0.01
586	669249.0	4280355.0	Roadway/Open Space	-	-	0.01
587	669259.0	4280355.0	Roadway/Open Space	-	-	0.01
588	669269.0	4280355.0	Roadway/Open Space	-	-	0.01

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
589	669279.0	4280355.0	Roadway/Open Space	-	-	0.02
590	669289.0	4280355.0	Roadway/Open Space	-	-	0.02
591	669299.0	4280355.0	Roadway/Open Space	-	-	0.02
592	669309.0	4280355.0	Roadway/Open Space	-	-	0.02
593	669319.0	4280355.0	Roadway/Open Space	-	-	0.02
594	669329.0	4280355.0	Roadway/Open Space	-	-	0.02
595	669339.0	4280355.0	Roadway/Open Space	-	-	0.02
596	669349.0	4280355.0	Roadway/Open Space	-	-	0.02
597	668739.0	4280365.0	Roadway/Open Space	-	-	0.02
598	668749.0	4280365.0	Roadway/Open Space	-	-	0.02
599	668759.0	4280365.0	Roadway/Open Space	-	-	0.02
600	668769.0	4280365.0	Roadway/Open Space	-	-	0.02
601	668779.0	4280365.0	Roadway/Open Space	-	-	0.02
602	668789.0	4280365.0	Roadway/Open Space	-	-	0.02
603	668799.0	4280365.0	Roadway/Open Space	-	-	0.02
604	668809.0	4280365.0	Worker	0.07	0.005	0.02
605	668819.0	4280365.0	Worker	0.07	0.006	0.02
606	668829.0	4280365.0	Worker	0.07	0.006	0.02
607	668839.0	4280365.0	Worker	0.07	0.006	0.02
608	668849.0	4280365.0	Worker	0.07	0.006	0.02
609	668859.0	4280365.0	Worker	0.07	0.006	0.02
610	668869.0	4280365.0	Worker	0.07	0.006	0.02
611	668879.0	4280365.0	Worker	0.07	0.006	0.02
612	668889.0	4280365.0	Worker	0.08	0.006	0.02
613	668899.0	4280365.0	Worker	0.08	0.006	0.02
614	668909.0	4280365.0	Roadway/Open Space	-	-	0.02
615	668919.0	4280365.0	Roadway/Open Space	-	-	0.02
616	668929.0	4280365.0	Roadway/Open Space	-	-	0.02
617	668939.0	4280365.0	Roadway/Open Space	-	-	0.02
618	668949.0	4280365.0	Roadway/Open Space	-	-	0.02
619	668959.0	4280365.0	Roadway/Open Space	-	-	0.02
620	668969.0	4280365.0	Roadway/Open Space	-	-	0.02
621	668979.0	4280365.0	Roadway/Open Space	-	-	0.02
622	668989.0	4280365.0	Roadway/Open Space	-	-	0.02
623	668999.0	4280365.0	Roadway/Open Space	-	-	0.02
624	669009.0	4280365.0	Roadway/Open Space	-	-	0.02
625	669019.0	4280365.0	Roadway/Open Space	-	-	0.02
626	669029.0	4280365.0	Roadway/Open Space	-	-	0.02
627	669039.0	4280365.0	Roadway/Open Space	-	-	0.02
628	669049.0	4280365.0	Roadway/Open Space	-	-	0.02
629	669059.0	4280365.0	Roadway/Open Space	-	-	0.02
630	669069.0	4280365.0	Roadway/Open Space	-	-	0.02
631	669079.0	4280365.0	Roadway/Open Space	-	-	0.02
632	669089.0	4280365.0	Roadway/Open Space	-	-	0.02
633	669099.0	4280365.0	Roadway/Open Space	-	-	0.02
634	669109.0	4280365.0	Roadway/Open Space	-	-	0.02
635	669119.0	4280365.0	Roadway/Open Space	-	-	0.02
636	669129.0	4280365.0	Roadway/Open Space	-	-	0.02
637	669139.0	4280365.0	Roadway/Open Space	-	-	0.02
638	669149.0	4280365.0	Roadway/Open Space	-	-	0.02
639	669159.0	4280365.0	Roadway/Open Space	-	-	0.02
640	669169.0	4280365.0	Roadway/Open Space	-	-	0.02
641	669179.0	4280365.0	Roadway/Open Space	-	-	0.02
642	669189.0	4280365.0	Roadway/Open Space	-	-	0.02
643	669199.0	4280365.0	Roadway/Open Space	-	-	0.02
644	669209.0	4280365.0	Roadway/Open Space	-	-	0.02
645	669219.0	4280365.0	Roadway/Open Space	-	-	0.02
646	669229.0	4280365.0	Roadway/Open Space	-	-	0.02
647	669239.0	4280365.0	Roadway/Open Space	-	-	0.01
648	669249.0	4280365.0	Roadway/Open Space	-	-	0.01
649	669259.0	4280365.0	Roadway/Open Space	-	-	0.02
650	669269.0	4280365.0	Roadway/Open Space	-	-	0.02
651	669279.0	4280365.0	Roadway/Open Space	-	-	0.02
652	669289.0	4280365.0	Roadway/Open Space	-	-	0.02
653	669299.0	4280365.0	Roadway/Open Space	-	-	0.02
654	669309.0	4280365.0	Roadway/Open Space	-	-	0.02
655	669319.0	4280365.0	Roadway/Open Space	-	-	0.02
656	669329.0	4280365.0	Roadway/Open Space	-	-	0.02
657	669339.0	4280365.0	Roadway/Open Space	-	-	0.02
658	669349.0	4280365.0	Roadway/Open Space	-	-	0.02
659	669359.0	4280365.0	Roadway/Open Space	-	-	0.02
660	668739.0	4280375.0	Roadway/Open Space	-	-	0.02
661	668749.0	4280375.0	Roadway/Open Space	-	-	0.02
662	668759.0	4280375.0	Roadway/Open Space	-	-	0.02
663	668769.0	4280375.0	Roadway/Open Space	-	-	0.02
664	668779.0	4280375.0	Roadway/Open Space	-	-	0.02
665	668789.0	4280375.0	Roadway/Open Space	-	-	0.02
666	668799.0	4280375.0	Roadway/Open Space	-	-	0.02
667	668809.0	4280375.0	Roadway/Open Space	-	-	0.02
668	668819.0	4280375.0	Worker	0.07	0.006	0.02
669	668829.0	4280375.0	Worker	0.07	0.006	0.02
670	668839.0	4280375.0	Worker	0.07	0.006	0.02
671	668849.0	4280375.0	Worker	0.07	0.006	0.02
672	668859.0	4280375.0	Worker	0.07	0.006	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
673	668869.0	4280375.0	Worker	0.07	0.006	0.02
674	668879.0	4280375.0	Worker	0.08	0.006	0.02
675	668889.0	4280375.0	Worker	0.08	0.006	0.02
676	668899.0	4280375.0	Worker	0.08	0.007	0.02
677	668909.0	4280375.0	Worker	0.08	0.007	0.02
678	668919.0	4280375.0	Roadway/Open Space	-	-	0.02
679	668929.0	4280375.0	Roadway/Open Space	-	-	0.02
680	668939.0	4280375.0	Roadway/Open Space	-	-	0.02
681	668949.0	4280375.0	Roadway/Open Space	-	-	0.02
682	668959.0	4280375.0	Roadway/Open Space	-	-	0.02
683	668969.0	4280375.0	Roadway/Open Space	-	-	0.02
684	668979.0	4280375.0	Roadway/Open Space	-	-	0.02
685	668989.0	4280375.0	Roadway/Open Space	-	-	0.02
686	668999.0	4280375.0	Roadway/Open Space	-	-	0.02
687	669009.0	4280375.0	Roadway/Open Space	-	-	0.02
688	669019.0	4280375.0	Roadway/Open Space	-	-	0.02
689	669029.0	4280375.0	Roadway/Open Space	-	-	0.02
690	669039.0	4280375.0	Roadway/Open Space	-	-	0.02
691	669049.0	4280375.0	Roadway/Open Space	-	-	0.02
692	669059.0	4280375.0	Roadway/Open Space	-	-	0.02
693	669069.0	4280375.0	Roadway/Open Space	-	-	0.02
694	669079.0	4280375.0	Roadway/Open Space	-	-	0.02
695	669089.0	4280375.0	Roadway/Open Space	-	-	0.02
696	669099.0	4280375.0	Roadway/Open Space	-	-	0.02
697	669109.0	4280375.0	Roadway/Open Space	-	-	0.02
698	669119.0	4280375.0	Roadway/Open Space	-	-	0.02
699	669129.0	4280375.0	Roadway/Open Space	-	-	0.02
700	669139.0	4280375.0	Roadway/Open Space	-	-	0.02
701	669149.0	4280375.0	Roadway/Open Space	-	-	0.02
702	669159.0	4280375.0	Roadway/Open Space	-	-	0.02
703	669169.0	4280375.0	Roadway/Open Space	-	-	0.02
704	669179.0	4280375.0	Roadway/Open Space	-	-	0.02
705	669189.0	4280375.0	Roadway/Open Space	-	-	0.02
706	669199.0	4280375.0	Roadway/Open Space	-	-	0.02
707	669209.0	4280375.0	Roadway/Open Space	-	-	0.02
708	669219.0	4280375.0	Roadway/Open Space	-	-	0.02
709	669229.0	4280375.0	Roadway/Open Space	-	-	0.02
710	669239.0	4280375.0	Roadway/Open Space	-	-	0.02
711	669249.0	4280375.0	Roadway/Open Space	-	-	0.02
712	669259.0	4280375.0	Roadway/Open Space	-	-	0.02
713	669269.0	4280375.0	Roadway/Open Space	-	-	0.02
714	669279.0	4280375.0	Roadway/Open Space	-	-	0.02
715	669289.0	4280375.0	Roadway/Open Space	-	-	0.02
716	669299.0	4280375.0	Roadway/Open Space	-	-	0.02
717	669309.0	4280375.0	Roadway/Open Space	-	-	0.02
718	669319.0	4280375.0	Roadway/Open Space	-	-	0.02
719	669329.0	4280375.0	Roadway/Open Space	-	-	0.02
720	669339.0	4280375.0	Roadway/Open Space	-	-	0.02
721	669349.0	4280375.0	Roadway/Open Space	-	-	0.02
722	669359.0	4280375.0	Roadway/Open Space	-	-	0.02
723	669369.0	4280375.0	Roadway/Open Space	-	-	0.02
724	668729.0	4280385.0	Roadway/Open Space	-	-	0.02
725	668739.0	4280385.0	Roadway/Open Space	-	-	0.02
726	668749.0	4280385.0	Roadway/Open Space	-	-	0.02
727	668759.0	4280385.0	Roadway/Open Space	-	-	0.02
728	668769.0	4280385.0	Roadway/Open Space	-	-	0.02
729	668779.0	4280385.0	Roadway/Open Space	-	-	0.02
730	668789.0	4280385.0	Roadway/Open Space	-	-	0.02
731	668799.0	4280385.0	Roadway/Open Space	-	-	0.02
732	668809.0	4280385.0	Roadway/Open Space	-	-	0.02
733	668819.0	4280385.0	Roadway/Open Space	-	-	0.02
734	668829.0	4280385.0	Roadway/Open Space	-	-	0.02
735	668839.0	4280385.0	Roadway/Open Space	-	-	0.02
736	668849.0	4280385.0	Worker	0.07	0.006	0.02
737	668859.0	4280385.0	Worker	0.07	0.006	0.02
738	668869.0	4280385.0	Worker	0.08	0.006	0.02
739	668879.0	4280385.0	Worker	0.08	0.006	0.02
740	668889.0	4280385.0	Worker	0.08	0.007	0.02
741	668899.0	4280385.0	Worker	0.08	0.007	0.02
742	668909.0	4280385.0	Worker	0.08	0.007	0.02
743	668919.0	4280385.0	Roadway/Open Space	-	-	0.02
744	668929.0	4280385.0	Roadway/Open Space	-	-	0.02
745	668939.0	4280385.0	Roadway/Open Space	-	-	0.02
746	668949.0	4280385.0	Roadway/Open Space	-	-	0.02
747	668959.0	4280385.0	Roadway/Open Space	-	-	0.02
748	668969.0	4280385.0	Roadway/Open Space	-	-	0.02
749	668979.0	4280385.0	Roadway/Open Space	-	-	0.02
750	668989.0	4280385.0	Roadway/Open Space	-	-	0.02
751	668999.0	4280385.0	Roadway/Open Space	-	-	0.02
752	669009.0	4280385.0	Roadway/Open Space	-	-	0.02
753	669019.0	4280385.0	Roadway/Open Space	-	-	0.02
754	669029.0	4280385.0	Roadway/Open Space	-	-	0.02
755	669039.0	4280385.0	Roadway/Open Space	-	-	0.02
756	669049.0	4280385.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
757	669059.0	4280385.0	Roadway/Open Space	-	-	0.02
758	669069.0	4280385.0	Roadway/Open Space	-	-	0.02
759	669079.0	4280385.0	Roadway/Open Space	-	-	0.02
760	669089.0	4280385.0	Roadway/Open Space	-	-	0.02
761	669099.0	4280385.0	Roadway/Open Space	-	-	0.02
762	669109.0	4280385.0	Roadway/Open Space	-	-	0.02
763	669119.0	4280385.0	Roadway/Open Space	-	-	0.02
764	669129.0	4280385.0	Roadway/Open Space	-	-	0.02
765	669139.0	4280385.0	Roadway/Open Space	-	-	0.02
766	669149.0	4280385.0	Roadway/Open Space	-	-	0.02
767	669159.0	4280385.0	Roadway/Open Space	-	-	0.02
768	669169.0	4280385.0	Roadway/Open Space	-	-	0.02
769	669179.0	4280385.0	Roadway/Open Space	-	-	0.02
770	669189.0	4280385.0	Roadway/Open Space	-	-	0.02
771	669199.0	4280385.0	Roadway/Open Space	-	-	0.02
772	669209.0	4280385.0	Roadway/Open Space	-	-	0.02
773	669219.0	4280385.0	Roadway/Open Space	-	-	0.02
774	669229.0	4280385.0	Roadway/Open Space	-	-	0.02
775	669239.0	4280385.0	Roadway/Open Space	-	-	0.02
776	669249.0	4280385.0	Roadway/Open Space	-	-	0.02
777	669259.0	4280385.0	Roadway/Open Space	-	-	0.02
778	669269.0	4280385.0	Roadway/Open Space	-	-	0.02
779	669279.0	4280385.0	Roadway/Open Space	-	-	0.02
780	669289.0	4280385.0	Roadway/Open Space	-	-	0.02
781	669299.0	4280385.0	Roadway/Open Space	-	-	0.02
782	669309.0	4280385.0	Roadway/Open Space	-	-	0.02
783	669319.0	4280385.0	Roadway/Open Space	-	-	0.02
784	669329.0	4280385.0	Roadway/Open Space	-	-	0.02
785	669339.0	4280385.0	Roadway/Open Space	-	-	0.02
786	669349.0	4280385.0	Roadway/Open Space	-	-	0.02
787	669359.0	4280385.0	Roadway/Open Space	-	-	0.02
788	669369.0	4280385.0	Roadway/Open Space	-	-	0.02
789	669379.0	4280385.0	Roadway/Open Space	-	-	0.02
790	668719.0	4280395.0	Roadway/Open Space	-	-	0.02
791	668729.0	4280395.0	Roadway/Open Space	-	-	0.02
792	668739.0	4280395.0	Roadway/Open Space	-	-	0.02
793	668749.0	4280395.0	Roadway/Open Space	-	-	0.02
794	668759.0	4280395.0	Roadway/Open Space	-	-	0.02
795	668769.0	4280395.0	Roadway/Open Space	-	-	0.02
796	668779.0	4280395.0	Roadway/Open Space	-	-	0.02
797	668789.0	4280395.0	Roadway/Open Space	-	-	0.02
798	668799.0	4280395.0	Roadway/Open Space	-	-	0.02
799	668809.0	4280395.0	Roadway/Open Space	-	-	0.02
800	668819.0	4280395.0	Roadway/Open Space	-	-	0.02
801	668829.0	4280395.0	Roadway/Open Space	-	-	0.02
802	668839.0	4280395.0	Roadway/Open Space	-	-	0.02
803	668849.0	4280395.0	Roadway/Open Space	-	-	0.02
804	668859.0	4280395.0	Roadway/Open Space	-	-	0.02
805	668869.0	4280395.0	Worker	0.08	0.007	0.02
806	668879.0	4280395.0	Worker	0.08	0.007	0.02
807	668889.0	4280395.0	Roadway/Open Space	-	-	0.02
808	668899.0	4280395.0	Roadway/Open Space	-	-	0.02
809	668909.0	4280395.0	Roadway/Open Space	-	-	0.02
810	668919.0	4280395.0	Roadway/Open Space	-	-	0.02
811	668929.0	4280395.0	Roadway/Open Space	-	-	0.02
812	668939.0	4280395.0	Roadway/Open Space	-	-	0.02
813	668949.0	4280395.0	Roadway/Open Space	-	-	0.02
814	668959.0	4280395.0	Roadway/Open Space	-	-	0.02
815	668969.0	4280395.0	Roadway/Open Space	-	-	0.02
816	668979.0	4280395.0	Roadway/Open Space	-	-	0.02
817	668989.0	4280395.0	Roadway/Open Space	-	-	0.02
818	668999.0	4280395.0	Roadway/Open Space	-	-	0.02
819	669009.0	4280395.0	Roadway/Open Space	-	-	0.02
820	669019.0	4280395.0	Roadway/Open Space	-	-	0.02
821	669029.0	4280395.0	Roadway/Open Space	-	-	0.02
822	669039.0	4280395.0	Roadway/Open Space	-	-	0.02
823	669049.0	4280395.0	Roadway/Open Space	-	-	0.02
824	669059.0	4280395.0	Roadway/Open Space	-	-	0.02
825	669069.0	4280395.0	Roadway/Open Space	-	-	0.02
826	669079.0	4280395.0	Roadway/Open Space	-	-	0.02
827	669089.0	4280395.0	Roadway/Open Space	-	-	0.02
828	669099.0	4280395.0	Roadway/Open Space	-	-	0.02
829	669109.0	4280395.0	Roadway/Open Space	-	-	0.02
830	669119.0	4280395.0	Roadway/Open Space	-	-	0.02
831	669129.0	4280395.0	Roadway/Open Space	-	-	0.02
832	669139.0	4280395.0	Roadway/Open Space	-	-	0.02
833	669149.0	4280395.0	Roadway/Open Space	-	-	0.02
834	669159.0	4280395.0	Roadway/Open Space	-	-	0.02
835	669169.0	4280395.0	Roadway/Open Space	-	-	0.02
836	669179.0	4280395.0	Roadway/Open Space	-	-	0.02
837	669189.0	4280395.0	Roadway/Open Space	-	-	0.02
838	669199.0	4280395.0	Roadway/Open Space	-	-	0.02
839	669209.0	4280395.0	Roadway/Open Space	-	-	0.02
840	669219.0	4280395.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
841	669229.0	4280395.0	Roadway/Open Space	-	-	0.02
842	669239.0	4280395.0	Roadway/Open Space	-	-	0.02
843	669249.0	4280395.0	Roadway/Open Space	-	-	0.02
844	669259.0	4280395.0	Roadway/Open Space	-	-	0.02
845	669269.0	4280395.0	Roadway/Open Space	-	-	0.02
846	669279.0	4280395.0	Roadway/Open Space	-	-	0.02
847	669289.0	4280395.0	Roadway/Open Space	-	-	0.02
848	669299.0	4280395.0	Roadway/Open Space	-	-	0.02
849	669309.0	4280395.0	Roadway/Open Space	-	-	0.02
850	669319.0	4280395.0	Roadway/Open Space	-	-	0.02
851	669329.0	4280395.0	Roadway/Open Space	-	-	0.02
852	669339.0	4280395.0	Roadway/Open Space	-	-	0.02
853	669349.0	4280395.0	Roadway/Open Space	-	-	0.02
854	669359.0	4280395.0	Roadway/Open Space	-	-	0.02
855	669369.0	4280395.0	Roadway/Open Space	-	-	0.02
856	669379.0	4280395.0	Roadway/Open Space	-	-	0.02
857	669389.0	4280395.0	Roadway/Open Space	-	-	0.02
858	668709.0	4280405.0	Roadway/Open Space	-	-	0.02
859	668719.0	4280405.0	Roadway/Open Space	-	-	0.02
860	668729.0	4280405.0	Roadway/Open Space	-	-	0.02
861	668739.0	4280405.0	Roadway/Open Space	-	-	0.02
862	668749.0	4280405.0	Roadway/Open Space	-	-	0.02
863	668759.0	4280405.0	Roadway/Open Space	-	-	0.02
864	668769.0	4280405.0	Roadway/Open Space	-	-	0.02
865	668779.0	4280405.0	Roadway/Open Space	-	-	0.02
866	668789.0	4280405.0	Roadway/Open Space	-	-	0.02
867	668799.0	4280405.0	Roadway/Open Space	-	-	0.02
868	668809.0	4280405.0	Roadway/Open Space	-	-	0.02
869	668819.0	4280405.0	Roadway/Open Space	-	-	0.02
870	668829.0	4280405.0	Roadway/Open Space	-	-	0.02
871	668839.0	4280405.0	Roadway/Open Space	-	-	0.02
872	668849.0	4280405.0	Roadway/Open Space	-	-	0.02
873	668859.0	4280405.0	Roadway/Open Space	-	-	0.02
874	668869.0	4280405.0	Roadway/Open Space	-	-	0.02
875	668879.0	4280405.0	Roadway/Open Space	-	-	0.02
876	668889.0	4280405.0	Roadway/Open Space	-	-	0.02
877	668899.0	4280405.0	Roadway/Open Space	-	-	0.02
878	668909.0	4280405.0	Roadway/Open Space	-	-	0.02
879	668919.0	4280405.0	Roadway/Open Space	-	-	0.02
880	668929.0	4280405.0	Roadway/Open Space	-	-	0.02
881	668939.0	4280405.0	Roadway/Open Space	-	-	0.02
882	668949.0	4280405.0	Roadway/Open Space	-	-	0.02
883	668959.0	4280405.0	Roadway/Open Space	-	-	0.02
884	668969.0	4280405.0	Roadway/Open Space	-	-	0.02
885	668979.0	4280405.0	Roadway/Open Space	-	-	0.02
886	668989.0	4280405.0	Roadway/Open Space	-	-	0.02
887	668999.0	4280405.0	Roadway/Open Space	-	-	0.02
888	669009.0	4280405.0	Roadway/Open Space	-	-	0.02
889	669019.0	4280405.0	Roadway/Open Space	-	-	0.02
890	669029.0	4280405.0	Roadway/Open Space	-	-	0.02
891	669039.0	4280405.0	Roadway/Open Space	-	-	0.02
892	669049.0	4280405.0	Roadway/Open Space	-	-	0.02
893	669059.0	4280405.0	Roadway/Open Space	-	-	0.02
894	669069.0	4280405.0	Roadway/Open Space	-	-	0.02
895	669079.0	4280405.0	Roadway/Open Space	-	-	0.02
896	669089.0	4280405.0	Roadway/Open Space	-	-	0.02
897	669099.0	4280405.0	Roadway/Open Space	-	-	0.02
898	669109.0	4280405.0	Roadway/Open Space	-	-	0.02
899	669119.0	4280405.0	Roadway/Open Space	-	-	0.02
900	669129.0	4280405.0	Roadway/Open Space	-	-	0.02
901	669139.0	4280405.0	Roadway/Open Space	-	-	0.02
902	669149.0	4280405.0	Roadway/Open Space	-	-	0.02
903	669159.0	4280405.0	Roadway/Open Space	-	-	0.02
904	669169.0	4280405.0	Roadway/Open Space	-	-	0.02
905	669179.0	4280405.0	Roadway/Open Space	-	-	0.02
906	669189.0	4280405.0	Roadway/Open Space	-	-	0.02
907	669199.0	4280405.0	Roadway/Open Space	-	-	0.02
908	669209.0	4280405.0	Roadway/Open Space	-	-	0.02
909	669219.0	4280405.0	Roadway/Open Space	-	-	0.02
910	669229.0	4280405.0	Roadway/Open Space	-	-	0.02
911	669239.0	4280405.0	Roadway/Open Space	-	-	0.02
912	669249.0	4280405.0	Roadway/Open Space	-	-	0.02
913	669259.0	4280405.0	Roadway/Open Space	-	-	0.02
914	669269.0	4280405.0	Roadway/Open Space	-	-	0.02
915	669279.0	4280405.0	Roadway/Open Space	-	-	0.02
916	669289.0	4280405.0	Roadway/Open Space	-	-	0.02
917	669299.0	4280405.0	Roadway/Open Space	-	-	0.02
918	669309.0	4280405.0	Roadway/Open Space	-	-	0.02
919	669319.0	4280405.0	Roadway/Open Space	-	-	0.02
920	669329.0	4280405.0	Roadway/Open Space	-	-	0.02
921	669339.0	4280405.0	Roadway/Open Space	-	-	0.02
922	669349.0	4280405.0	Roadway/Open Space	-	-	0.02
923	669359.0	4280405.0	Roadway/Open Space	-	-	0.02
924	669369.0	4280405.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
925	669379.0	4280405.0	Roadway/Open Space	-	-	0.02
926	669389.0	4280405.0	Roadway/Open Space	-	-	0.02
927	669399.0	4280405.0	Roadway/Open Space	-	-	0.02
928	668709.0	4280415.0	Roadway/Open Space	-	-	0.02
929	668719.0	4280415.0	Roadway/Open Space	-	-	0.02
930	668729.0	4280415.0	Roadway/Open Space	-	-	0.02
931	668739.0	4280415.0	Roadway/Open Space	-	-	0.02
932	668749.0	4280415.0	Roadway/Open Space	-	-	0.02
933	668759.0	4280415.0	Roadway/Open Space	-	-	0.02
934	668769.0	4280415.0	Roadway/Open Space	-	-	0.02
935	668779.0	4280415.0	Roadway/Open Space	-	-	0.02
936	668789.0	4280415.0	Roadway/Open Space	-	-	0.02
937	668799.0	4280415.0	Roadway/Open Space	-	-	0.02
938	668809.0	4280415.0	Roadway/Open Space	-	-	0.02
939	668819.0	4280415.0	Roadway/Open Space	-	-	0.02
940	668829.0	4280415.0	Roadway/Open Space	-	-	0.02
941	668839.0	4280415.0	Roadway/Open Space	-	-	0.02
942	668849.0	4280415.0	Roadway/Open Space	-	-	0.02
943	668859.0	4280415.0	Roadway/Open Space	-	-	0.02
944	668869.0	4280415.0	Roadway/Open Space	-	-	0.02
945	668879.0	4280415.0	Roadway/Open Space	-	-	0.02
946	668889.0	4280415.0	Roadway/Open Space	-	-	0.02
947	668899.0	4280415.0	Roadway/Open Space	-	-	0.02
948	668909.0	4280415.0	Roadway/Open Space	-	-	0.02
949	668919.0	4280415.0	Roadway/Open Space	-	-	0.02
950	668929.0	4280415.0	Roadway/Open Space	-	-	0.02
951	668939.0	4280415.0	Roadway/Open Space	-	-	0.02
952	668949.0	4280415.0	Roadway/Open Space	-	-	0.02
953	668959.0	4280415.0	Roadway/Open Space	-	-	0.02
954	668969.0	4280415.0	Roadway/Open Space	-	-	0.02
955	668979.0	4280415.0	Roadway/Open Space	-	-	0.02
956	668989.0	4280415.0	Roadway/Open Space	-	-	0.02
957	668999.0	4280415.0	Roadway/Open Space	-	-	0.02
958	669009.0	4280415.0	Roadway/Open Space	-	-	0.02
959	669019.0	4280415.0	Roadway/Open Space	-	-	0.02
960	669029.0	4280415.0	Roadway/Open Space	-	-	0.02
961	669039.0	4280415.0	Roadway/Open Space	-	-	0.02
962	669049.0	4280415.0	Roadway/Open Space	-	-	0.02
963	669059.0	4280415.0	Roadway/Open Space	-	-	0.02
964	669069.0	4280415.0	Roadway/Open Space	-	-	0.02
965	669079.0	4280415.0	Roadway/Open Space	-	-	0.02
966	669089.0	4280415.0	Roadway/Open Space	-	-	0.02
967	669099.0	4280415.0	Roadway/Open Space	-	-	0.02
968	669109.0	4280415.0	Roadway/Open Space	-	-	0.02
969	669119.0	4280415.0	Roadway/Open Space	-	-	0.02
970	669129.0	4280415.0	Roadway/Open Space	-	-	0.02
971	669139.0	4280415.0	Roadway/Open Space	-	-	0.02
972	669149.0	4280415.0	Roadway/Open Space	-	-	0.02
973	669159.0	4280415.0	Roadway/Open Space	-	-	0.02
974	669169.0	4280415.0	Roadway/Open Space	-	-	0.02
975	669179.0	4280415.0	Roadway/Open Space	-	-	0.02
976	669189.0	4280415.0	Roadway/Open Space	-	-	0.02
977	669199.0	4280415.0	Roadway/Open Space	-	-	0.02
978	669209.0	4280415.0	Roadway/Open Space	-	-	0.02
979	669219.0	4280415.0	Roadway/Open Space	-	-	0.02
980	669229.0	4280415.0	Roadway/Open Space	-	-	0.02
981	669239.0	4280415.0	Roadway/Open Space	-	-	0.02
982	669249.0	4280415.0	Roadway/Open Space	-	-	0.02
983	669259.0	4280415.0	Roadway/Open Space	-	-	0.02
984	669269.0	4280415.0	Roadway/Open Space	-	-	0.02
985	669279.0	4280415.0	Roadway/Open Space	-	-	0.02
986	669289.0	4280415.0	Roadway/Open Space	-	-	0.02
987	669299.0	4280415.0	Roadway/Open Space	-	-	0.02
988	669309.0	4280415.0	Roadway/Open Space	-	-	0.02
989	669319.0	4280415.0	Roadway/Open Space	-	-	0.02
990	669329.0	4280415.0	Roadway/Open Space	-	-	0.02
991	669339.0	4280415.0	Roadway/Open Space	-	-	0.02
992	669349.0	4280415.0	Roadway/Open Space	-	-	0.02
993	669359.0	4280415.0	Roadway/Open Space	-	-	0.02
994	669369.0	4280415.0	Roadway/Open Space	-	-	0.02
995	669379.0	4280415.0	Roadway/Open Space	-	-	0.02
996	669389.0	4280415.0	Roadway/Open Space	-	-	0.02
997	669399.0	4280415.0	Roadway/Open Space	-	-	0.02
998	668699.0	4280425.0	Roadway/Open Space	-	-	0.02
999	668709.0	4280425.0	Roadway/Open Space	-	-	0.02
1000	668719.0	4280425.0	Roadway/Open Space	-	-	0.02
1001	668729.0	4280425.0	Roadway/Open Space	-	-	0.02
1002	668739.0	4280425.0	Roadway/Open Space	-	-	0.02
1003	668749.0	4280425.0	Roadway/Open Space	-	-	0.02
1004	668759.0	4280425.0	Roadway/Open Space	-	-	0.02
1005	668769.0	4280425.0	Roadway/Open Space	-	-	0.02
1006	668779.0	4280425.0	Roadway/Open Space	-	-	0.02
1007	668789.0	4280425.0	Roadway/Open Space	-	-	0.02
1008	668799.0	4280425.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1009	668809.0	4280425.0	Roadway/Open Space	-	-	0.02
1010	668819.0	4280425.0	Roadway/Open Space	-	-	0.02
1011	668829.0	4280425.0	Roadway/Open Space	-	-	0.02
1012	668839.0	4280425.0	Roadway/Open Space	-	-	0.02
1013	668849.0	4280425.0	Roadway/Open Space	-	-	0.02
1014	668859.0	4280425.0	Roadway/Open Space	-	-	0.02
1015	668869.0	4280425.0	Roadway/Open Space	-	-	0.02
1016	668879.0	4280425.0	Roadway/Open Space	-	-	0.02
1017	668889.0	4280425.0	Roadway/Open Space	-	-	0.02
1018	668899.0	4280425.0	Roadway/Open Space	-	-	0.02
1019	668909.0	4280425.0	Roadway/Open Space	-	-	0.02
1020	668919.0	4280425.0	Roadway/Open Space	-	-	0.02
1021	668929.0	4280425.0	Roadway/Open Space	-	-	0.02
1022	668939.0	4280425.0	Roadway/Open Space	-	-	0.02
1023	668949.0	4280425.0	Roadway/Open Space	-	-	0.02
1024	668959.0	4280425.0	Roadway/Open Space	-	-	0.02
1025	668969.0	4280425.0	Roadway/Open Space	-	-	0.02
1026	668979.0	4280425.0	Roadway/Open Space	-	-	0.02
1027	668989.0	4280425.0	Roadway/Open Space	-	-	0.02
1028	668999.0	4280425.0	Roadway/Open Space	-	-	0.02
1029	669009.0	4280425.0	Roadway/Open Space	-	-	0.02
1030	669019.0	4280425.0	Roadway/Open Space	-	-	0.02
1031	669029.0	4280425.0	Roadway/Open Space	-	-	0.02
1032	669039.0	4280425.0	Roadway/Open Space	-	-	0.02
1033	669049.0	4280425.0	Roadway/Open Space	-	-	0.02
1034	669059.0	4280425.0	Roadway/Open Space	-	-	0.02
1035	669069.0	4280425.0	Roadway/Open Space	-	-	0.02
1036	669079.0	4280425.0	Roadway/Open Space	-	-	0.02
1037	669089.0	4280425.0	Roadway/Open Space	-	-	0.02
1038	669099.0	4280425.0	Roadway/Open Space	-	-	0.02
1039	669109.0	4280425.0	Roadway/Open Space	-	-	0.02
1040	669119.0	4280425.0	Roadway/Open Space	-	-	0.02
1041	669129.0	4280425.0	Roadway/Open Space	-	-	0.02
1042	669139.0	4280425.0	Roadway/Open Space	-	-	0.02
1043	669149.0	4280425.0	Roadway/Open Space	-	-	0.02
1044	669159.0	4280425.0	Roadway/Open Space	-	-	0.02
1045	669169.0	4280425.0	Roadway/Open Space	-	-	0.02
1046	669179.0	4280425.0	Roadway/Open Space	-	-	0.02
1047	669189.0	4280425.0	Roadway/Open Space	-	-	0.02
1048	669199.0	4280425.0	Roadway/Open Space	-	-	0.02
1049	669209.0	4280425.0	Roadway/Open Space	-	-	0.02
1050	669219.0	4280425.0	Roadway/Open Space	-	-	0.02
1051	669229.0	4280425.0	Roadway/Open Space	-	-	0.02
1052	669239.0	4280425.0	Roadway/Open Space	-	-	0.02
1053	669249.0	4280425.0	Roadway/Open Space	-	-	0.02
1054	669259.0	4280425.0	Roadway/Open Space	-	-	0.02
1055	669269.0	4280425.0	Roadway/Open Space	-	-	0.02
1056	669279.0	4280425.0	Roadway/Open Space	-	-	0.02
1057	669289.0	4280425.0	Roadway/Open Space	-	-	0.02
1058	669299.0	4280425.0	Roadway/Open Space	-	-	0.02
1059	669309.0	4280425.0	Roadway/Open Space	-	-	0.02
1060	669319.0	4280425.0	Roadway/Open Space	-	-	0.02
1061	669329.0	4280425.0	Roadway/Open Space	-	-	0.02
1062	669339.0	4280425.0	Roadway/Open Space	-	-	0.02
1063	669349.0	4280425.0	Roadway/Open Space	-	-	0.02
1064	669359.0	4280425.0	Roadway/Open Space	-	-	0.02
1065	669369.0	4280425.0	Roadway/Open Space	-	-	0.02
1066	669379.0	4280425.0	Roadway/Open Space	-	-	0.02
1067	669389.0	4280425.0	Roadway/Open Space	-	-	0.02
1068	669399.0	4280425.0	Roadway/Open Space	-	-	0.02
1069	669409.0	4280425.0	Roadway/Open Space	-	-	0.02
1070	669419.0	4280425.0	Roadway/Open Space	-	-	0.02
1071	668689.0	4280435.0	Roadway/Open Space	-	-	0.02
1072	668699.0	4280435.0	Roadway/Open Space	-	-	0.02
1073	668709.0	4280435.0	Roadway/Open Space	-	-	0.02
1074	668719.0	4280435.0	Roadway/Open Space	-	-	0.02
1075	668729.0	4280435.0	Roadway/Open Space	-	-	0.02
1076	668739.0	4280435.0	Roadway/Open Space	-	-	0.02
1077	668749.0	4280435.0	Roadway/Open Space	-	-	0.02
1078	668759.0	4280435.0	Roadway/Open Space	-	-	0.02
1079	668769.0	4280435.0	Roadway/Open Space	-	-	0.02
1080	668779.0	4280435.0	Roadway/Open Space	-	-	0.02
1081	668789.0	4280435.0	Roadway/Open Space	-	-	0.02
1082	668799.0	4280435.0	Roadway/Open Space	-	-	0.02
1083	668809.0	4280435.0	Roadway/Open Space	-	-	0.02
1084	668819.0	4280435.0	Roadway/Open Space	-	-	0.02
1085	668829.0	4280435.0	Roadway/Open Space	-	-	0.02
1086	668839.0	4280435.0	Roadway/Open Space	-	-	0.02
1087	668849.0	4280435.0	Roadway/Open Space	-	-	0.02
1088	668859.0	4280435.0	Roadway/Open Space	-	-	0.02
1089	668869.0	4280435.0	Roadway/Open Space	-	-	0.02
1090	668879.0	4280435.0	Roadway/Open Space	-	-	0.02
1091	668889.0	4280435.0	Roadway/Open Space	-	-	0.02
1092	668899.0	4280435.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1093	668909.0	4280435.0	Roadway/Open Space	-	-	0.02
1094	668919.0	4280435.0	Roadway/Open Space	-	-	0.02
1095	668929.0	4280435.0	Roadway/Open Space	-	-	0.02
1096	668939.0	4280435.0	Roadway/Open Space	-	-	0.02
1097	668949.0	4280435.0	Roadway/Open Space	-	-	0.02
1098	668959.0	4280435.0	Roadway/Open Space	-	-	0.02
1099	668969.0	4280435.0	Roadway/Open Space	-	-	0.02
1100	668979.0	4280435.0	Roadway/Open Space	-	-	0.02
1101	668989.0	4280435.0	Roadway/Open Space	-	-	0.02
1102	668999.0	4280435.0	Roadway/Open Space	-	-	0.02
1103	669009.0	4280435.0	Roadway/Open Space	-	-	0.02
1104	669019.0	4280435.0	Roadway/Open Space	-	-	0.02
1105	669029.0	4280435.0	Roadway/Open Space	-	-	0.02
1106	669039.0	4280435.0	Roadway/Open Space	-	-	0.02
1107	669049.0	4280435.0	Roadway/Open Space	-	-	0.02
1108	669059.0	4280435.0	Roadway/Open Space	-	-	0.02
1109	669069.0	4280435.0	Roadway/Open Space	-	-	0.02
1110	669079.0	4280435.0	Roadway/Open Space	-	-	0.02
1111	669089.0	4280435.0	Roadway/Open Space	-	-	0.02
1112	669099.0	4280435.0	Roadway/Open Space	-	-	0.02
1113	669109.0	4280435.0	Roadway/Open Space	-	-	0.02
1114	669119.0	4280435.0	Roadway/Open Space	-	-	0.02
1115	669129.0	4280435.0	Roadway/Open Space	-	-	0.02
1116	669139.0	4280435.0	Roadway/Open Space	-	-	0.02
1117	669149.0	4280435.0	Roadway/Open Space	-	-	0.02
1118	669159.0	4280435.0	Roadway/Open Space	-	-	0.02
1119	669169.0	4280435.0	Roadway/Open Space	-	-	0.02
1120	669179.0	4280435.0	Roadway/Open Space	-	-	0.02
1121	669189.0	4280435.0	Roadway/Open Space	-	-	0.02
1122	669199.0	4280435.0	Roadway/Open Space	-	-	0.02
1123	669209.0	4280435.0	Roadway/Open Space	-	-	0.02
1124	669219.0	4280435.0	Roadway/Open Space	-	-	0.02
1125	669229.0	4280435.0	Roadway/Open Space	-	-	0.02
1126	669239.0	4280435.0	Roadway/Open Space	-	-	0.02
1127	669249.0	4280435.0	Roadway/Open Space	-	-	0.02
1128	669259.0	4280435.0	Roadway/Open Space	-	-	0.02
1129	669269.0	4280435.0	Roadway/Open Space	-	-	0.02
1130	669279.0	4280435.0	Roadway/Open Space	-	-	0.02
1131	669289.0	4280435.0	Roadway/Open Space	-	-	0.02
1132	669299.0	4280435.0	Roadway/Open Space	-	-	0.02
1133	669309.0	4280435.0	Roadway/Open Space	-	-	0.02
1134	669319.0	4280435.0	Roadway/Open Space	-	-	0.02
1135	669329.0	4280435.0	Roadway/Open Space	-	-	0.02
1136	669339.0	4280435.0	Roadway/Open Space	-	-	0.02
1137	669349.0	4280435.0	Roadway/Open Space	-	-	0.02
1138	669359.0	4280435.0	Roadway/Open Space	-	-	0.02
1139	669369.0	4280435.0	Roadway/Open Space	-	-	0.02
1140	669379.0	4280435.0	Roadway/Open Space	-	-	0.02
1141	669389.0	4280435.0	Roadway/Open Space	-	-	0.02
1142	669399.0	4280435.0	Roadway/Open Space	-	-	0.02
1143	669409.0	4280435.0	Roadway/Open Space	-	-	0.02
1144	669419.0	4280435.0	Roadway/Open Space	-	-	0.02
1145	669429.0	4280435.0	Roadway/Open Space	-	-	0.02
1146	669439.0	4280435.0	Roadway/Open Space	-	-	0.01
1147	668689.0	4280445.0	Roadway/Open Space	-	-	0.02
1148	668699.0	4280445.0	Roadway/Open Space	-	-	0.02
1149	668709.0	4280445.0	Roadway/Open Space	-	-	0.02
1150	668719.0	4280445.0	Roadway/Open Space	-	-	0.02
1151	668729.0	4280445.0	Roadway/Open Space	-	-	0.02
1152	668739.0	4280445.0	Roadway/Open Space	-	-	0.02
1153	668749.0	4280445.0	Roadway/Open Space	-	-	0.02
1154	668759.0	4280445.0	Roadway/Open Space	-	-	0.02
1155	668769.0	4280445.0	Roadway/Open Space	-	-	0.02
1156	668779.0	4280445.0	Roadway/Open Space	-	-	0.02
1157	668789.0	4280445.0	Roadway/Open Space	-	-	0.02
1158	668799.0	4280445.0	Roadway/Open Space	-	-	0.02
1159	668809.0	4280445.0	Roadway/Open Space	-	-	0.02
1160	668819.0	4280445.0	Roadway/Open Space	-	-	0.02
1161	668829.0	4280445.0	Roadway/Open Space	-	-	0.02
1162	668839.0	4280445.0	Roadway/Open Space	-	-	0.02
1163	668849.0	4280445.0	Roadway/Open Space	-	-	0.02
1164	668859.0	4280445.0	Roadway/Open Space	-	-	0.02
1165	668869.0	4280445.0	Roadway/Open Space	-	-	0.02
1166	668879.0	4280445.0	Roadway/Open Space	-	-	0.02
1167	668889.0	4280445.0	Roadway/Open Space	-	-	0.02
1168	668899.0	4280445.0	Roadway/Open Space	-	-	0.02
1169	668909.0	4280445.0	Roadway/Open Space	-	-	0.02
1170	668919.0	4280445.0	Roadway/Open Space	-	-	0.02
1171	668929.0	4280445.0	Roadway/Open Space	-	-	0.02
1172	668939.0	4280445.0	Roadway/Open Space	-	-	0.02
1173	668949.0	4280445.0	Roadway/Open Space	-	-	0.02
1174	668959.0	4280445.0	Roadway/Open Space	-	-	0.02
1175	668969.0	4280445.0	Roadway/Open Space	-	-	0.02
1176	668979.0	4280445.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1177	668989.0	4280445.0	Roadway/Open Space	-	-	0.02
1178	668999.0	4280445.0	Roadway/Open Space	-	-	0.02
1179	669009.0	4280445.0	Roadway/Open Space	-	-	0.02
1180	669019.0	4280445.0	Roadway/Open Space	-	-	0.02
1181	669029.0	4280445.0	Roadway/Open Space	-	-	0.02
1182	669039.0	4280445.0	Roadway/Open Space	-	-	0.02
1183	669049.0	4280445.0	Roadway/Open Space	-	-	0.02
1184	669059.0	4280445.0	Roadway/Open Space	-	-	0.02
1185	669069.0	4280445.0	Roadway/Open Space	-	-	0.02
1186	669079.0	4280445.0	Roadway/Open Space	-	-	0.02
1187	669089.0	4280445.0	Roadway/Open Space	-	-	0.02
1188	669099.0	4280445.0	Roadway/Open Space	-	-	0.02
1189	669109.0	4280445.0	Roadway/Open Space	-	-	0.02
1190	669119.0	4280445.0	Roadway/Open Space	-	-	0.02
1191	669129.0	4280445.0	Roadway/Open Space	-	-	0.02
1192	669139.0	4280445.0	Roadway/Open Space	-	-	0.02
1193	669149.0	4280445.0	Roadway/Open Space	-	-	0.02
1194	669159.0	4280445.0	Roadway/Open Space	-	-	0.02
1195	669169.0	4280445.0	Roadway/Open Space	-	-	0.02
1196	669179.0	4280445.0	Roadway/Open Space	-	-	0.02
1197	669189.0	4280445.0	Roadway/Open Space	-	-	0.02
1198	669199.0	4280445.0	Roadway/Open Space	-	-	0.02
1199	669209.0	4280445.0	Roadway/Open Space	-	-	0.02
1200	669219.0	4280445.0	Roadway/Open Space	-	-	0.02
1201	669229.0	4280445.0	Roadway/Open Space	-	-	0.02
1202	669239.0	4280445.0	Roadway/Open Space	-	-	0.02
1203	669249.0	4280445.0	Roadway/Open Space	-	-	0.02
1204	669259.0	4280445.0	Roadway/Open Space	-	-	0.02
1205	669269.0	4280445.0	Roadway/Open Space	-	-	0.02
1206	669279.0	4280445.0	Roadway/Open Space	-	-	0.02
1207	669289.0	4280445.0	Roadway/Open Space	-	-	0.02
1208	669299.0	4280445.0	Roadway/Open Space	-	-	0.02
1209	669309.0	4280445.0	Roadway/Open Space	-	-	0.02
1210	669319.0	4280445.0	Roadway/Open Space	-	-	0.02
1211	669329.0	4280445.0	Roadway/Open Space	-	-	0.02
1212	669339.0	4280445.0	Roadway/Open Space	-	-	0.02
1213	669349.0	4280445.0	Roadway/Open Space	-	-	0.02
1214	669359.0	4280445.0	Roadway/Open Space	-	-	0.02
1215	669369.0	4280445.0	Roadway/Open Space	-	-	0.02
1216	669379.0	4280445.0	Roadway/Open Space	-	-	0.02
1217	669389.0	4280445.0	Roadway/Open Space	-	-	0.02
1218	669399.0	4280445.0	Roadway/Open Space	-	-	0.02
1219	669409.0	4280445.0	Roadway/Open Space	-	-	0.02
1220	669419.0	4280445.0	Roadway/Open Space	-	-	0.02
1221	669429.0	4280445.0	Roadway/Open Space	-	-	0.02
1222	669439.0	4280445.0	Roadway/Open Space	-	-	0.01
1223	669449.0	4280445.0	Roadway/Open Space	-	-	0.01
1224	668679.0	4280455.0	Roadway/Open Space	-	-	0.02
1225	668689.0	4280455.0	Roadway/Open Space	-	-	0.02
1226	668699.0	4280455.0	Roadway/Open Space	-	-	0.02
1227	668709.0	4280455.0	Roadway/Open Space	-	-	0.02
1228	668719.0	4280455.0	Roadway/Open Space	-	-	0.02
1229	668729.0	4280455.0	Roadway/Open Space	-	-	0.02
1230	668739.0	4280455.0	Roadway/Open Space	-	-	0.02
1231	668749.0	4280455.0	Roadway/Open Space	-	-	0.02
1232	668759.0	4280455.0	Roadway/Open Space	-	-	0.02
1233	668769.0	4280455.0	Roadway/Open Space	-	-	0.02
1234	668779.0	4280455.0	Roadway/Open Space	-	-	0.02
1235	668789.0	4280455.0	Roadway/Open Space	-	-	0.02
1236	668799.0	4280455.0	Roadway/Open Space	-	-	0.02
1237	668809.0	4280455.0	Roadway/Open Space	-	-	0.02
1238	668819.0	4280455.0	Roadway/Open Space	-	-	0.02
1239	668829.0	4280455.0	Roadway/Open Space	-	-	0.02
1240	668839.0	4280455.0	Roadway/Open Space	-	-	0.02
1241	668849.0	4280455.0	Roadway/Open Space	-	-	0.02
1242	668859.0	4280455.0	Roadway/Open Space	-	-	0.02
1243	668869.0	4280455.0	Roadway/Open Space	-	-	0.02
1244	668879.0	4280455.0	Roadway/Open Space	-	-	0.02
1245	668889.0	4280455.0	Roadway/Open Space	-	-	0.02
1246	668899.0	4280455.0	Roadway/Open Space	-	-	0.02
1247	668909.0	4280455.0	Roadway/Open Space	-	-	0.02
1248	668919.0	4280455.0	Roadway/Open Space	-	-	0.02
1249	668929.0	4280455.0	Roadway/Open Space	-	-	0.02
1250	668939.0	4280455.0	Roadway/Open Space	-	-	0.02
1251	668949.0	4280455.0	Roadway/Open Space	-	-	0.02
1252	668959.0	4280455.0	Roadway/Open Space	-	-	0.02
1253	668969.0	4280455.0	Roadway/Open Space	-	-	0.02
1254	668979.0	4280455.0	Roadway/Open Space	-	-	0.02
1255	668989.0	4280455.0	Roadway/Open Space	-	-	0.02
1256	668999.0	4280455.0	Roadway/Open Space	-	-	0.02
1257	669009.0	4280455.0	Roadway/Open Space	-	-	0.02
1258	669019.0	4280455.0	Roadway/Open Space	-	-	0.02
1259	669029.0	4280455.0	Roadway/Open Space	-	-	0.02
1260	669039.0	4280455.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1261	669049.0	4280455.0	Roadway/Open Space	-	-	0.02
1262	669059.0	4280455.0	Roadway/Open Space	-	-	0.02
1263	669069.0	4280455.0	Roadway/Open Space	-	-	0.02
1264	669079.0	4280455.0	Roadway/Open Space	-	-	0.02
1265	669089.0	4280455.0	Roadway/Open Space	-	-	0.02
1266	669099.0	4280455.0	Roadway/Open Space	-	-	0.02
1267	669109.0	4280455.0	Roadway/Open Space	-	-	0.02
1268	669119.0	4280455.0	Roadway/Open Space	-	-	0.02
1269	669129.0	4280455.0	Roadway/Open Space	-	-	0.02
1270	669139.0	4280455.0	Roadway/Open Space	-	-	0.02
1271	669149.0	4280455.0	Roadway/Open Space	-	-	0.02
1272	669159.0	4280455.0	Roadway/Open Space	-	-	0.02
1273	669169.0	4280455.0	Roadway/Open Space	-	-	0.02
1274	669179.0	4280455.0	Roadway/Open Space	-	-	0.02
1275	669189.0	4280455.0	Roadway/Open Space	-	-	0.02
1276	669199.0	4280455.0	Roadway/Open Space	-	-	0.02
1277	669209.0	4280455.0	Roadway/Open Space	-	-	0.02
1278	669219.0	4280455.0	Roadway/Open Space	-	-	0.02
1279	669229.0	4280455.0	Roadway/Open Space	-	-	0.02
1280	669239.0	4280455.0	Roadway/Open Space	-	-	0.02
1281	669249.0	4280455.0	Roadway/Open Space	-	-	0.02
1282	669259.0	4280455.0	Roadway/Open Space	-	-	0.02
1283	669269.0	4280455.0	Roadway/Open Space	-	-	0.02
1284	669279.0	4280455.0	Roadway/Open Space	-	-	0.02
1285	669289.0	4280455.0	Roadway/Open Space	-	-	0.02
1286	669299.0	4280455.0	Roadway/Open Space	-	-	0.02
1287	669309.0	4280455.0	Roadway/Open Space	-	-	0.02
1288	669319.0	4280455.0	Roadway/Open Space	-	-	0.02
1289	669329.0	4280455.0	Roadway/Open Space	-	-	0.02
1290	669339.0	4280455.0	Roadway/Open Space	-	-	0.02
1291	669349.0	4280455.0	Roadway/Open Space	-	-	0.02
1292	669359.0	4280455.0	Roadway/Open Space	-	-	0.02
1293	669369.0	4280455.0	Roadway/Open Space	-	-	0.02
1294	669379.0	4280455.0	Roadway/Open Space	-	-	0.02
1295	669389.0	4280455.0	Roadway/Open Space	-	-	0.02
1296	669399.0	4280455.0	Roadway/Open Space	-	-	0.02
1297	669409.0	4280455.0	Roadway/Open Space	-	-	0.02
1298	669419.0	4280455.0	Roadway/Open Space	-	-	0.02
1299	669429.0	4280455.0	Roadway/Open Space	-	-	0.02
1300	669439.0	4280455.0	Roadway/Open Space	-	-	0.01
1301	669449.0	4280455.0	Roadway/Open Space	-	-	0.01
1302	669459.0	4280455.0	Roadway/Open Space	-	-	0.01
1303	669469.0	4280455.0	Roadway/Open Space	-	-	0.01
1304	668669.0	4280465.0	Roadway/Open Space	-	-	0.02
1305	668679.0	4280465.0	Roadway/Open Space	-	-	0.02
1306	668689.0	4280465.0	Roadway/Open Space	-	-	0.02
1307	668699.0	4280465.0	Roadway/Open Space	-	-	0.02
1308	668709.0	4280465.0	Roadway/Open Space	-	-	0.02
1309	668719.0	4280465.0	Roadway/Open Space	-	-	0.02
1310	668729.0	4280465.0	Roadway/Open Space	-	-	0.02
1311	668739.0	4280465.0	Roadway/Open Space	-	-	0.02
1312	668749.0	4280465.0	Roadway/Open Space	-	-	0.02
1313	668759.0	4280465.0	Roadway/Open Space	-	-	0.02
1314	668769.0	4280465.0	Roadway/Open Space	-	-	0.02
1315	668779.0	4280465.0	Roadway/Open Space	-	-	0.02
1316	668789.0	4280465.0	Roadway/Open Space	-	-	0.02
1317	668799.0	4280465.0	Roadway/Open Space	-	-	0.02
1318	668809.0	4280465.0	Roadway/Open Space	-	-	0.02
1319	668819.0	4280465.0	Roadway/Open Space	-	-	0.02
1320	668829.0	4280465.0	Roadway/Open Space	-	-	0.02
1321	668839.0	4280465.0	Roadway/Open Space	-	-	0.02
1322	668849.0	4280465.0	Roadway/Open Space	-	-	0.02
1323	668859.0	4280465.0	Roadway/Open Space	-	-	0.02
1324	668869.0	4280465.0	Roadway/Open Space	-	-	0.02
1325	668879.0	4280465.0	Roadway/Open Space	-	-	0.02
1326	668889.0	4280465.0	Roadway/Open Space	-	-	0.02
1327	668899.0	4280465.0	Roadway/Open Space	-	-	0.02
1328	668909.0	4280465.0	Roadway/Open Space	-	-	0.02
1329	668919.0	4280465.0	Roadway/Open Space	-	-	0.02
1330	668929.0	4280465.0	Roadway/Open Space	-	-	0.02
1331	668939.0	4280465.0	Roadway/Open Space	-	-	0.02
1332	668949.0	4280465.0	Roadway/Open Space	-	-	0.02
1333	668959.0	4280465.0	Roadway/Open Space	-	-	0.02
1334	668969.0	4280465.0	Roadway/Open Space	-	-	0.02
1335	668979.0	4280465.0	Roadway/Open Space	-	-	0.02
1336	668989.0	4280465.0	Roadway/Open Space	-	-	0.02
1337	668999.0	4280465.0	Roadway/Open Space	-	-	0.02
1338	669009.0	4280465.0	Roadway/Open Space	-	-	0.02
1339	669019.0	4280465.0	Roadway/Open Space	-	-	0.02
1340	669029.0	4280465.0	Roadway/Open Space	-	-	0.02
1341	669039.0	4280465.0	Roadway/Open Space	-	-	0.02
1342	669049.0	4280465.0	Roadway/Open Space	-	-	0.02
1343	669059.0	4280465.0	Roadway/Open Space	-	-	0.02
1344	669069.0	4280465.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1345	669079.0	4280465.0	Roadway/Open Space	-	-	0.02
1346	669089.0	4280465.0	Roadway/Open Space	-	-	0.02
1347	669099.0	4280465.0	Roadway/Open Space	-	-	0.02
1348	669109.0	4280465.0	Roadway/Open Space	-	-	0.02
1349	669119.0	4280465.0	Roadway/Open Space	-	-	0.02
1350	669129.0	4280465.0	Roadway/Open Space	-	-	0.02
1351	669139.0	4280465.0	Roadway/Open Space	-	-	0.02
1352	669149.0	4280465.0	Roadway/Open Space	-	-	0.02
1353	669159.0	4280465.0	Roadway/Open Space	-	-	0.02
1354	669169.0	4280465.0	Roadway/Open Space	-	-	0.02
1355	669179.0	4280465.0	Roadway/Open Space	-	-	0.02
1356	669189.0	4280465.0	Roadway/Open Space	-	-	0.02
1357	669199.0	4280465.0	Roadway/Open Space	-	-	0.02
1358	669209.0	4280465.0	Roadway/Open Space	-	-	0.02
1359	669219.0	4280465.0	Roadway/Open Space	-	-	0.02
1360	669229.0	4280465.0	Roadway/Open Space	-	-	0.02
1361	669239.0	4280465.0	Roadway/Open Space	-	-	0.02
1362	669249.0	4280465.0	Roadway/Open Space	-	-	0.02
1363	669259.0	4280465.0	Roadway/Open Space	-	-	0.02
1364	669269.0	4280465.0	Roadway/Open Space	-	-	0.02
1365	669279.0	4280465.0	Roadway/Open Space	-	-	0.02
1366	669289.0	4280465.0	Roadway/Open Space	-	-	0.02
1367	669299.0	4280465.0	Roadway/Open Space	-	-	0.02
1368	669309.0	4280465.0	Roadway/Open Space	-	-	0.02
1369	669319.0	4280465.0	Roadway/Open Space	-	-	0.02
1370	669329.0	4280465.0	Roadway/Open Space	-	-	0.02
1371	669339.0	4280465.0	Roadway/Open Space	-	-	0.02
1372	669349.0	4280465.0	Roadway/Open Space	-	-	0.02
1373	669359.0	4280465.0	Roadway/Open Space	-	-	0.02
1374	669369.0	4280465.0	Roadway/Open Space	-	-	0.02
1375	669379.0	4280465.0	Roadway/Open Space	-	-	0.02
1376	669389.0	4280465.0	Roadway/Open Space	-	-	0.02
1377	669399.0	4280465.0	Roadway/Open Space	-	-	0.02
1378	669409.0	4280465.0	Roadway/Open Space	-	-	0.02
1379	669419.0	4280465.0	Roadway/Open Space	-	-	0.02
1380	669429.0	4280465.0	Roadway/Open Space	-	-	0.02
1381	669439.0	4280465.0	Roadway/Open Space	-	-	0.02
1382	669449.0	4280465.0	Roadway/Open Space	-	-	0.01
1383	669459.0	4280465.0	Roadway/Open Space	-	-	0.01
1384	669469.0	4280465.0	Roadway/Open Space	-	-	0.01
1385	669479.0	4280465.0	Roadway/Open Space	-	-	0.01
1386	668669.0	4280475.0	Roadway/Open Space	-	-	0.02
1387	668679.0	4280475.0	Roadway/Open Space	-	-	0.02
1388	668689.0	4280475.0	Roadway/Open Space	-	-	0.02
1389	668699.0	4280475.0	Roadway/Open Space	-	-	0.02
1390	668709.0	4280475.0	Roadway/Open Space	-	-	0.02
1391	668719.0	4280475.0	Roadway/Open Space	-	-	0.02
1392	668729.0	4280475.0	Roadway/Open Space	-	-	0.02
1393	668739.0	4280475.0	Roadway/Open Space	-	-	0.02
1394	668749.0	4280475.0	Roadway/Open Space	-	-	0.02
1395	668759.0	4280475.0	Roadway/Open Space	-	-	0.02
1396	668769.0	4280475.0	Roadway/Open Space	-	-	0.02
1397	668779.0	4280475.0	Roadway/Open Space	-	-	0.02
1398	668789.0	4280475.0	Roadway/Open Space	-	-	0.02
1399	668799.0	4280475.0	Roadway/Open Space	-	-	0.02
1400	668809.0	4280475.0	Roadway/Open Space	-	-	0.02
1401	668819.0	4280475.0	Roadway/Open Space	-	-	0.02
1402	668829.0	4280475.0	Roadway/Open Space	-	-	0.02
1403	668839.0	4280475.0	Roadway/Open Space	-	-	0.02
1404	668849.0	4280475.0	Roadway/Open Space	-	-	0.02
1405	668859.0	4280475.0	Roadway/Open Space	-	-	0.02
1406	668869.0	4280475.0	Roadway/Open Space	-	-	0.02
1407	668879.0	4280475.0	Roadway/Open Space	-	-	0.02
1408	668889.0	4280475.0	Roadway/Open Space	-	-	0.02
1409	668899.0	4280475.0	Roadway/Open Space	-	-	0.02
1410	668909.0	4280475.0	Roadway/Open Space	-	-	0.02
1411	668919.0	4280475.0	Roadway/Open Space	-	-	0.02
1412	668929.0	4280475.0	Roadway/Open Space	-	-	0.02
1413	668939.0	4280475.0	Roadway/Open Space	-	-	0.02
1414	668949.0	4280475.0	Roadway/Open Space	-	-	0.02
1415	668959.0	4280475.0	Roadway/Open Space	-	-	0.02
1416	668969.0	4280475.0	Roadway/Open Space	-	-	0.02
1417	668979.0	4280475.0	Roadway/Open Space	-	-	0.02
1418	668989.0	4280475.0	Roadway/Open Space	-	-	0.02
1419	668999.0	4280475.0	Roadway/Open Space	-	-	0.02
1420	669009.0	4280475.0	Roadway/Open Space	-	-	0.02
1421	669019.0	4280475.0	Roadway/Open Space	-	-	0.02
1422	669029.0	4280475.0	Roadway/Open Space	-	-	0.02
1423	669039.0	4280475.0	Roadway/Open Space	-	-	0.02
1424	669049.0	4280475.0	Roadway/Open Space	-	-	0.02
1425	669059.0	4280475.0	Roadway/Open Space	-	-	0.02
1426	669069.0	4280475.0	Roadway/Open Space	-	-	0.02
1427	669079.0	4280475.0	Roadway/Open Space	-	-	0.02
1428	669089.0	4280475.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1429	669099.0	4280475.0	Roadway/Open Space	-	-	0.02
1430	669109.0	4280475.0	Roadway/Open Space	-	-	0.02
1431	669119.0	4280475.0	Roadway/Open Space	-	-	0.02
1432	669129.0	4280475.0	Roadway/Open Space	-	-	0.02
1433	669139.0	4280475.0	Roadway/Open Space	-	-	0.02
1434	669149.0	4280475.0	Roadway/Open Space	-	-	0.02
1435	669159.0	4280475.0	Roadway/Open Space	-	-	0.02
1436	669169.0	4280475.0	Roadway/Open Space	-	-	0.02
1437	669179.0	4280475.0	Roadway/Open Space	-	-	0.02
1438	669189.0	4280475.0	Roadway/Open Space	-	-	0.02
1439	669199.0	4280475.0	Roadway/Open Space	-	-	0.02
1440	669209.0	4280475.0	Roadway/Open Space	-	-	0.02
1441	669219.0	4280475.0	Roadway/Open Space	-	-	0.02
1442	669229.0	4280475.0	Roadway/Open Space	-	-	0.02
1443	669239.0	4280475.0	Roadway/Open Space	-	-	0.02
1444	669249.0	4280475.0	Roadway/Open Space	-	-	0.02
1445	669259.0	4280475.0	Roadway/Open Space	-	-	0.02
1446	669269.0	4280475.0	Roadway/Open Space	-	-	0.02
1447	669279.0	4280475.0	Roadway/Open Space	-	-	0.02
1448	669289.0	4280475.0	Roadway/Open Space	-	-	0.02
1449	669299.0	4280475.0	Roadway/Open Space	-	-	0.02
1450	669309.0	4280475.0	Roadway/Open Space	-	-	0.02
1451	669319.0	4280475.0	Roadway/Open Space	-	-	0.02
1452	669329.0	4280475.0	Roadway/Open Space	-	-	0.02
1453	669339.0	4280475.0	Roadway/Open Space	-	-	0.02
1454	669349.0	4280475.0	Roadway/Open Space	-	-	0.02
1455	669359.0	4280475.0	Roadway/Open Space	-	-	0.02
1456	669369.0	4280475.0	Roadway/Open Space	-	-	0.02
1457	669379.0	4280475.0	Roadway/Open Space	-	-	0.02
1458	669389.0	4280475.0	Roadway/Open Space	-	-	0.02
1459	669399.0	4280475.0	Roadway/Open Space	-	-	0.02
1460	669409.0	4280475.0	Roadway/Open Space	-	-	0.02
1461	669419.0	4280475.0	Roadway/Open Space	-	-	0.02
1462	669429.0	4280475.0	Roadway/Open Space	-	-	0.02
1463	669439.0	4280475.0	Roadway/Open Space	-	-	0.02
1464	669449.0	4280475.0	Roadway/Open Space	-	-	0.01
1465	669459.0	4280475.0	Roadway/Open Space	-	-	0.01
1466	669469.0	4280475.0	Roadway/Open Space	-	-	0.01
1467	669479.0	4280475.0	Roadway/Open Space	-	-	0.01
1468	669489.0	4280475.0	Roadway/Open Space	-	-	0.02
1469	668659.0	4280485.0	Roadway/Open Space	-	-	0.02
1470	668669.0	4280485.0	Roadway/Open Space	-	-	0.02
1471	668679.0	4280485.0	Roadway/Open Space	-	-	0.02
1472	668689.0	4280485.0	Roadway/Open Space	-	-	0.02
1473	668699.0	4280485.0	Roadway/Open Space	-	-	0.02
1474	668709.0	4280485.0	Roadway/Open Space	-	-	0.02
1475	668719.0	4280485.0	Roadway/Open Space	-	-	0.02
1476	668729.0	4280485.0	Roadway/Open Space	-	-	0.02
1477	668739.0	4280485.0	Roadway/Open Space	-	-	0.02
1478	668749.0	4280485.0	Roadway/Open Space	-	-	0.02
1479	668759.0	4280485.0	Roadway/Open Space	-	-	0.02
1480	668769.0	4280485.0	Roadway/Open Space	-	-	0.02
1481	668779.0	4280485.0	Roadway/Open Space	-	-	0.02
1482	668789.0	4280485.0	Roadway/Open Space	-	-	0.02
1483	668799.0	4280485.0	Roadway/Open Space	-	-	0.02
1484	668809.0	4280485.0	Roadway/Open Space	-	-	0.02
1485	668819.0	4280485.0	Roadway/Open Space	-	-	0.02
1486	668829.0	4280485.0	Roadway/Open Space	-	-	0.02
1487	668839.0	4280485.0	Roadway/Open Space	-	-	0.02
1488	668849.0	4280485.0	Roadway/Open Space	-	-	0.02
1489	668859.0	4280485.0	Roadway/Open Space	-	-	0.02
1490	668869.0	4280485.0	Roadway/Open Space	-	-	0.02
1491	668879.0	4280485.0	Roadway/Open Space	-	-	0.02
1492	668889.0	4280485.0	Roadway/Open Space	-	-	0.02
1493	668899.0	4280485.0	Roadway/Open Space	-	-	0.02
1494	668909.0	4280485.0	Roadway/Open Space	-	-	0.02
1495	668919.0	4280485.0	Roadway/Open Space	-	-	0.02
1496	668929.0	4280485.0	Roadway/Open Space	-	-	0.02
1497	668939.0	4280485.0	Roadway/Open Space	-	-	0.02
1498	668949.0	4280485.0	Roadway/Open Space	-	-	0.02
1499	668959.0	4280485.0	Roadway/Open Space	-	-	0.02
1500	668969.0	4280485.0	Roadway/Open Space	-	-	0.02
1501	668979.0	4280485.0	Roadway/Open Space	-	-	0.02
1502	668989.0	4280485.0	Roadway/Open Space	-	-	0.02
1503	668999.0	4280485.0	Roadway/Open Space	-	-	0.02
1504	669009.0	4280485.0	Roadway/Open Space	-	-	0.02
1505	669019.0	4280485.0	Roadway/Open Space	-	-	0.02
1506	669029.0	4280485.0	Roadway/Open Space	-	-	0.02
1507	669039.0	4280485.0	Roadway/Open Space	-	-	0.02
1508	669049.0	4280485.0	Roadway/Open Space	-	-	0.02
1509	669059.0	4280485.0	Roadway/Open Space	-	-	0.02
1510	669069.0	4280485.0	Roadway/Open Space	-	-	0.02
1511	669079.0	4280485.0	Roadway/Open Space	-	-	0.02
1512	669089.0	4280485.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1513	669099.0	4280485.0	Roadway/Open Space	-	-	0.02
1514	669109.0	4280485.0	Roadway/Open Space	-	-	0.02
1515	669119.0	4280485.0	Roadway/Open Space	-	-	0.02
1516	669129.0	4280485.0	Roadway/Open Space	-	-	0.02
1517	669139.0	4280485.0	Roadway/Open Space	-	-	0.02
1518	669149.0	4280485.0	Roadway/Open Space	-	-	0.02
1519	669159.0	4280485.0	Roadway/Open Space	-	-	0.02
1520	669169.0	4280485.0	Roadway/Open Space	-	-	0.02
1521	669179.0	4280485.0	Roadway/Open Space	-	-	0.02
1522	669189.0	4280485.0	Roadway/Open Space	-	-	0.02
1523	669199.0	4280485.0	Roadway/Open Space	-	-	0.02
1524	669209.0	4280485.0	Roadway/Open Space	-	-	0.02
1525	669219.0	4280485.0	Roadway/Open Space	-	-	0.02
1526	669229.0	4280485.0	Roadway/Open Space	-	-	0.02
1527	669239.0	4280485.0	Roadway/Open Space	-	-	0.02
1528	669249.0	4280485.0	Roadway/Open Space	-	-	0.02
1529	669259.0	4280485.0	Roadway/Open Space	-	-	0.02
1530	669269.0	4280485.0	Roadway/Open Space	-	-	0.02
1531	669279.0	4280485.0	Roadway/Open Space	-	-	0.02
1532	669289.0	4280485.0	Roadway/Open Space	-	-	0.02
1533	669299.0	4280485.0	Roadway/Open Space	-	-	0.02
1534	669309.0	4280485.0	Roadway/Open Space	-	-	0.02
1535	669319.0	4280485.0	Roadway/Open Space	-	-	0.02
1536	669329.0	4280485.0	Roadway/Open Space	-	-	0.02
1537	669339.0	4280485.0	Roadway/Open Space	-	-	0.02
1538	669349.0	4280485.0	Roadway/Open Space	-	-	0.02
1539	669359.0	4280485.0	Roadway/Open Space	-	-	0.02
1540	669369.0	4280485.0	Roadway/Open Space	-	-	0.02
1541	669379.0	4280485.0	Roadway/Open Space	-	-	0.02
1542	669389.0	4280485.0	Roadway/Open Space	-	-	0.02
1543	669399.0	4280485.0	Roadway/Open Space	-	-	0.02
1544	669409.0	4280485.0	Roadway/Open Space	-	-	0.02
1545	669419.0	4280485.0	Roadway/Open Space	-	-	0.02
1546	669429.0	4280485.0	Roadway/Open Space	-	-	0.02
1547	669439.0	4280485.0	Roadway/Open Space	-	-	0.02
1548	669449.0	4280485.0	Roadway/Open Space	-	-	0.02
1549	669459.0	4280485.0	Roadway/Open Space	-	-	0.02
1550	669469.0	4280485.0	Roadway/Open Space	-	-	0.01
1551	669479.0	4280485.0	Roadway/Open Space	-	-	0.02
1552	669489.0	4280485.0	Roadway/Open Space	-	-	0.02
1553	669499.0	4280485.0	Roadway/Open Space	-	-	0.02
1554	668659.0	4280495.0	Roadway/Open Space	-	-	0.02
1555	668669.0	4280495.0	Roadway/Open Space	-	-	0.02
1556	668679.0	4280495.0	Roadway/Open Space	-	-	0.02
1557	668689.0	4280495.0	Roadway/Open Space	-	-	0.02
1558	668699.0	4280495.0	Roadway/Open Space	-	-	0.02
1559	668709.0	4280495.0	Roadway/Open Space	-	-	0.02
1560	668719.0	4280495.0	Roadway/Open Space	-	-	0.02
1561	668729.0	4280495.0	Roadway/Open Space	-	-	0.02
1562	668739.0	4280495.0	Roadway/Open Space	-	-	0.02
1563	668749.0	4280495.0	Roadway/Open Space	-	-	0.02
1564	668759.0	4280495.0	Roadway/Open Space	-	-	0.02
1565	668769.0	4280495.0	Roadway/Open Space	-	-	0.02
1566	668779.0	4280495.0	Roadway/Open Space	-	-	0.02
1567	668789.0	4280495.0	Roadway/Open Space	-	-	0.02
1568	668799.0	4280495.0	Roadway/Open Space	-	-	0.02
1569	668809.0	4280495.0	Roadway/Open Space	-	-	0.02
1570	668819.0	4280495.0	Roadway/Open Space	-	-	0.02
1571	668829.0	4280495.0	Roadway/Open Space	-	-	0.02
1572	668839.0	4280495.0	Roadway/Open Space	-	-	0.02
1573	668849.0	4280495.0	Roadway/Open Space	-	-	0.02
1574	668859.0	4280495.0	Roadway/Open Space	-	-	0.02
1575	668869.0	4280495.0	Roadway/Open Space	-	-	0.02
1576	668879.0	4280495.0	Roadway/Open Space	-	-	0.02
1577	668889.0	4280495.0	Roadway/Open Space	-	-	0.02
1578	668899.0	4280495.0	Roadway/Open Space	-	-	0.02
1579	668909.0	4280495.0	Roadway/Open Space	-	-	0.02
1580	668919.0	4280495.0	Roadway/Open Space	-	-	0.02
1581	668929.0	4280495.0	Roadway/Open Space	-	-	0.02
1582	668939.0	4280495.0	Roadway/Open Space	-	-	0.02
1583	668949.0	4280495.0	Roadway/Open Space	-	-	0.02
1584	668959.0	4280495.0	Roadway/Open Space	-	-	0.02
1585	668969.0	4280495.0	Roadway/Open Space	-	-	0.02
1586	668979.0	4280495.0	Roadway/Open Space	-	-	0.02
1587	668989.0	4280495.0	Roadway/Open Space	-	-	0.02
1588	668999.0	4280495.0	Roadway/Open Space	-	-	0.02
1589	669009.0	4280495.0	Roadway/Open Space	-	-	0.02
1590	669019.0	4280495.0	Roadway/Open Space	-	-	0.02
1591	669029.0	4280495.0	Roadway/Open Space	-	-	0.02
1592	669039.0	4280495.0	Roadway/Open Space	-	-	0.02
1593	669049.0	4280495.0	Roadway/Open Space	-	-	0.02
1594	669059.0	4280495.0	Roadway/Open Space	-	-	0.02
1595	669069.0	4280495.0	Roadway/Open Space	-	-	0.02
1596	669079.0	4280495.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1597	669089.0	4280495.0	Roadway/Open Space	-	-	0.02
1598	669099.0	4280495.0	Roadway/Open Space	-	-	0.02
1599	669109.0	4280495.0	Roadway/Open Space	-	-	0.02
1600	669119.0	4280495.0	Roadway/Open Space	-	-	0.02
1601	669129.0	4280495.0	Roadway/Open Space	-	-	0.02
1602	669139.0	4280495.0	Roadway/Open Space	-	-	0.02
1603	669149.0	4280495.0	Roadway/Open Space	-	-	0.02
1604	669159.0	4280495.0	Roadway/Open Space	-	-	0.02
1605	669169.0	4280495.0	Roadway/Open Space	-	-	0.02
1606	669179.0	4280495.0	Roadway/Open Space	-	-	0.02
1607	669189.0	4280495.0	Roadway/Open Space	-	-	0.02
1608	669199.0	4280495.0	Roadway/Open Space	-	-	0.02
1609	669209.0	4280495.0	Roadway/Open Space	-	-	0.02
1610	669219.0	4280495.0	Roadway/Open Space	-	-	0.02
1611	669229.0	4280495.0	Roadway/Open Space	-	-	0.02
1612	669239.0	4280495.0	Roadway/Open Space	-	-	0.02
1613	669249.0	4280495.0	Roadway/Open Space	-	-	0.02
1614	669259.0	4280495.0	Roadway/Open Space	-	-	0.02
1615	669269.0	4280495.0	Roadway/Open Space	-	-	0.02
1616	669279.0	4280495.0	Roadway/Open Space	-	-	0.02
1617	669289.0	4280495.0	Roadway/Open Space	-	-	0.02
1618	669299.0	4280495.0	Roadway/Open Space	-	-	0.02
1619	669309.0	4280495.0	Roadway/Open Space	-	-	0.02
1620	669319.0	4280495.0	Roadway/Open Space	-	-	0.02
1621	669329.0	4280495.0	Roadway/Open Space	-	-	0.02
1622	669339.0	4280495.0	Roadway/Open Space	-	-	0.02
1623	669349.0	4280495.0	Roadway/Open Space	-	-	0.02
1624	669359.0	4280495.0	Roadway/Open Space	-	-	0.02
1625	669369.0	4280495.0	Roadway/Open Space	-	-	0.02
1626	669379.0	4280495.0	Roadway/Open Space	-	-	0.02
1627	669389.0	4280495.0	Roadway/Open Space	-	-	0.02
1628	669399.0	4280495.0	Roadway/Open Space	-	-	0.02
1629	669409.0	4280495.0	Roadway/Open Space	-	-	0.02
1630	669419.0	4280495.0	Roadway/Open Space	-	-	0.02
1631	669429.0	4280495.0	Roadway/Open Space	-	-	0.02
1632	669439.0	4280495.0	Roadway/Open Space	-	-	0.02
1633	669449.0	4280495.0	Roadway/Open Space	-	-	0.02
1634	669459.0	4280495.0	Roadway/Open Space	-	-	0.02
1635	669469.0	4280495.0	Roadway/Open Space	-	-	0.02
1636	669479.0	4280495.0	Roadway/Open Space	-	-	0.02
1637	669489.0	4280495.0	Roadway/Open Space	-	-	0.02
1638	669499.0	4280495.0	Roadway/Open Space	-	-	0.02
1639	669509.0	4280495.0	Roadway/Open Space	-	-	0.02
1640	668649.0	4280505.0	Roadway/Open Space	-	-	0.02
1641	668659.0	4280505.0	Roadway/Open Space	-	-	0.02
1642	668669.0	4280505.0	Roadway/Open Space	-	-	0.02
1643	668679.0	4280505.0	Roadway/Open Space	-	-	0.02
1644	668689.0	4280505.0	Roadway/Open Space	-	-	0.02
1645	668699.0	4280505.0	Roadway/Open Space	-	-	0.02
1646	668709.0	4280505.0	Roadway/Open Space	-	-	0.02
1647	668719.0	4280505.0	Roadway/Open Space	-	-	0.02
1648	668729.0	4280505.0	Roadway/Open Space	-	-	0.02
1649	668739.0	4280505.0	Roadway/Open Space	-	-	0.02
1650	668749.0	4280505.0	Roadway/Open Space	-	-	0.02
1651	668759.0	4280505.0	Roadway/Open Space	-	-	0.02
1652	668769.0	4280505.0	Roadway/Open Space	-	-	0.02
1653	668779.0	4280505.0	Roadway/Open Space	-	-	0.02
1654	668789.0	4280505.0	Roadway/Open Space	-	-	0.02
1655	668799.0	4280505.0	Roadway/Open Space	-	-	0.02
1656	668809.0	4280505.0	Roadway/Open Space	-	-	0.02
1657	668819.0	4280505.0	Roadway/Open Space	-	-	0.02
1658	668829.0	4280505.0	Roadway/Open Space	-	-	0.02
1659	668839.0	4280505.0	Roadway/Open Space	-	-	0.02
1660	668849.0	4280505.0	Roadway/Open Space	-	-	0.02
1661	668859.0	4280505.0	Roadway/Open Space	-	-	0.02
1662	668869.0	4280505.0	Roadway/Open Space	-	-	0.02
1663	668879.0	4280505.0	Roadway/Open Space	-	-	0.02
1664	668889.0	4280505.0	Roadway/Open Space	-	-	0.02
1665	668899.0	4280505.0	Roadway/Open Space	-	-	0.02
1666	668909.0	4280505.0	Roadway/Open Space	-	-	0.02
1667	668919.0	4280505.0	Roadway/Open Space	-	-	0.02
1668	668929.0	4280505.0	Roadway/Open Space	-	-	0.02
1669	668939.0	4280505.0	Roadway/Open Space	-	-	0.02
1670	668949.0	4280505.0	Roadway/Open Space	-	-	0.02
1671	668959.0	4280505.0	Roadway/Open Space	-	-	0.02
1672	668969.0	4280505.0	Roadway/Open Space	-	-	0.02
1673	668979.0	4280505.0	Roadway/Open Space	-	-	0.02
1674	668989.0	4280505.0	Roadway/Open Space	-	-	0.02
1675	668999.0	4280505.0	Roadway/Open Space	-	-	0.02
1676	669009.0	4280505.0	Roadway/Open Space	-	-	0.02
1677	669019.0	4280505.0	Roadway/Open Space	-	-	0.02
1678	669029.0	4280505.0	Roadway/Open Space	-	-	0.02
1679	669039.0	4280505.0	Roadway/Open Space	-	-	0.02
1680	669049.0	4280505.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1681	669059.0	4280505.0	Roadway/Open Space	-	-	0.02
1682	669069.0	4280505.0	Roadway/Open Space	-	-	0.02
1683	669079.0	4280505.0	Roadway/Open Space	-	-	0.02
1684	669089.0	4280505.0	Roadway/Open Space	-	-	0.02
1685	669099.0	4280505.0	Roadway/Open Space	-	-	0.02
1686	669109.0	4280505.0	Roadway/Open Space	-	-	0.02
1687	669119.0	4280505.0	Roadway/Open Space	-	-	0.02
1688	669129.0	4280505.0	Roadway/Open Space	-	-	0.02
1689	669139.0	4280505.0	Roadway/Open Space	-	-	0.02
1690	669149.0	4280505.0	Roadway/Open Space	-	-	0.02
1691	669159.0	4280505.0	Roadway/Open Space	-	-	0.02
1692	669169.0	4280505.0	Roadway/Open Space	-	-	0.02
1693	669179.0	4280505.0	Roadway/Open Space	-	-	0.02
1694	669189.0	4280505.0	Roadway/Open Space	-	-	0.02
1695	669199.0	4280505.0	Roadway/Open Space	-	-	0.02
1696	669209.0	4280505.0	Roadway/Open Space	-	-	0.02
1697	669219.0	4280505.0	Roadway/Open Space	-	-	0.02
1698	669229.0	4280505.0	Roadway/Open Space	-	-	0.02
1699	669239.0	4280505.0	Roadway/Open Space	-	-	0.02
1700	669249.0	4280505.0	Roadway/Open Space	-	-	0.02
1701	669259.0	4280505.0	Roadway/Open Space	-	-	0.02
1702	669269.0	4280505.0	Roadway/Open Space	-	-	0.02
1703	669279.0	4280505.0	Roadway/Open Space	-	-	0.02
1704	669289.0	4280505.0	Roadway/Open Space	-	-	0.02
1705	669299.0	4280505.0	Roadway/Open Space	-	-	0.02
1706	669309.0	4280505.0	Roadway/Open Space	-	-	0.02
1707	669319.0	4280505.0	Roadway/Open Space	-	-	0.02
1708	669329.0	4280505.0	Roadway/Open Space	-	-	0.02
1709	669339.0	4280505.0	Roadway/Open Space	-	-	0.02
1710	669349.0	4280505.0	Roadway/Open Space	-	-	0.02
1711	669359.0	4280505.0	Roadway/Open Space	-	-	0.02
1712	669369.0	4280505.0	Roadway/Open Space	-	-	0.02
1713	669379.0	4280505.0	Roadway/Open Space	-	-	0.02
1714	669389.0	4280505.0	Roadway/Open Space	-	-	0.02
1715	669399.0	4280505.0	Roadway/Open Space	-	-	0.02
1716	669409.0	4280505.0	Roadway/Open Space	-	-	0.02
1717	669419.0	4280505.0	Roadway/Open Space	-	-	0.02
1718	669429.0	4280505.0	Roadway/Open Space	-	-	0.02
1719	669439.0	4280505.0	Roadway/Open Space	-	-	0.02
1720	669449.0	4280505.0	Roadway/Open Space	-	-	0.02
1721	669459.0	4280505.0	Roadway/Open Space	-	-	0.02
1722	669469.0	4280505.0	Roadway/Open Space	-	-	0.02
1723	669479.0	4280505.0	Roadway/Open Space	-	-	0.02
1724	669489.0	4280505.0	Roadway/Open Space	-	-	0.02
1725	669499.0	4280505.0	Roadway/Open Space	-	-	0.02
1726	669509.0	4280505.0	Roadway/Open Space	-	-	0.02
1727	669519.0	4280505.0	Roadway/Open Space	-	-	0.02
1728	668649.0	4280515.0	Roadway/Open Space	-	-	0.02
1729	668659.0	4280515.0	Roadway/Open Space	-	-	0.02
1730	668669.0	4280515.0	Roadway/Open Space	-	-	0.02
1731	668679.0	4280515.0	Roadway/Open Space	-	-	0.02
1732	668689.0	4280515.0	Roadway/Open Space	-	-	0.02
1733	668699.0	4280515.0	Roadway/Open Space	-	-	0.02
1734	668709.0	4280515.0	Roadway/Open Space	-	-	0.02
1735	668719.0	4280515.0	Roadway/Open Space	-	-	0.02
1736	668729.0	4280515.0	Roadway/Open Space	-	-	0.02
1737	668739.0	4280515.0	Roadway/Open Space	-	-	0.02
1738	668749.0	4280515.0	Roadway/Open Space	-	-	0.02
1739	668759.0	4280515.0	Roadway/Open Space	-	-	0.02
1740	668769.0	4280515.0	Roadway/Open Space	-	-	0.02
1741	668779.0	4280515.0	Roadway/Open Space	-	-	0.02
1742	668789.0	4280515.0	Roadway/Open Space	-	-	0.02
1743	668799.0	4280515.0	Roadway/Open Space	-	-	0.02
1744	668809.0	4280515.0	Roadway/Open Space	-	-	0.02
1745	668819.0	4280515.0	Roadway/Open Space	-	-	0.02
1746	668829.0	4280515.0	Roadway/Open Space	-	-	0.02
1747	668839.0	4280515.0	Roadway/Open Space	-	-	0.02
1748	668849.0	4280515.0	Roadway/Open Space	-	-	0.02
1749	668859.0	4280515.0	Roadway/Open Space	-	-	0.02
1750	668869.0	4280515.0	Roadway/Open Space	-	-	0.02
1751	668879.0	4280515.0	Roadway/Open Space	-	-	0.02
1752	668889.0	4280515.0	Roadway/Open Space	-	-	0.02
1753	668899.0	4280515.0	Roadway/Open Space	-	-	0.02
1754	668909.0	4280515.0	Roadway/Open Space	-	-	0.02
1755	668919.0	4280515.0	Roadway/Open Space	-	-	0.02
1756	668929.0	4280515.0	Roadway/Open Space	-	-	0.02
1757	668939.0	4280515.0	Roadway/Open Space	-	-	0.02
1758	668949.0	4280515.0	Roadway/Open Space	-	-	0.02
1759	668959.0	4280515.0	Roadway/Open Space	-	-	0.02
1760	668969.0	4280515.0	Roadway/Open Space	-	-	0.02
1761	668979.0	4280515.0	Roadway/Open Space	-	-	0.02
1762	668989.0	4280515.0	Roadway/Open Space	-	-	0.02
1763	668999.0	4280515.0	Roadway/Open Space	-	-	0.03
1764	669009.0	4280515.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1765	669019.0	4280515.0	Roadway/Open Space	-	-	0.03
1766	669029.0	4280515.0	Roadway/Open Space	-	-	0.03
1767	669039.0	4280515.0	Roadway/Open Space	-	-	0.03
1768	669049.0	4280515.0	Roadway/Open Space	-	-	0.03
1769	669059.0	4280515.0	Roadway/Open Space	-	-	0.02
1770	669069.0	4280515.0	Roadway/Open Space	-	-	0.02
1771	669079.0	4280515.0	Roadway/Open Space	-	-	0.02
1772	669089.0	4280515.0	Roadway/Open Space	-	-	0.02
1773	669099.0	4280515.0	Roadway/Open Space	-	-	0.02
1774	669109.0	4280515.0	Roadway/Open Space	-	-	0.02
1775	669119.0	4280515.0	Roadway/Open Space	-	-	0.02
1776	669129.0	4280515.0	Roadway/Open Space	-	-	0.02
1777	669139.0	4280515.0	Roadway/Open Space	-	-	0.02
1778	669149.0	4280515.0	Roadway/Open Space	-	-	0.02
1779	669159.0	4280515.0	Roadway/Open Space	-	-	0.02
1780	669169.0	4280515.0	Roadway/Open Space	-	-	0.02
1781	669179.0	4280515.0	Roadway/Open Space	-	-	0.02
1782	669189.0	4280515.0	Roadway/Open Space	-	-	0.02
1783	669199.0	4280515.0	Roadway/Open Space	-	-	0.02
1784	669209.0	4280515.0	Roadway/Open Space	-	-	0.02
1785	669219.0	4280515.0	Roadway/Open Space	-	-	0.02
1786	669229.0	4280515.0	Roadway/Open Space	-	-	0.02
1787	669239.0	4280515.0	Roadway/Open Space	-	-	0.02
1788	669249.0	4280515.0	Roadway/Open Space	-	-	0.03
1789	669259.0	4280515.0	Roadway/Open Space	-	-	0.03
1790	669269.0	4280515.0	Roadway/Open Space	-	-	0.03
1791	669279.0	4280515.0	Roadway/Open Space	-	-	0.03
1792	669289.0	4280515.0	Roadway/Open Space	-	-	0.02
1793	669299.0	4280515.0	Roadway/Open Space	-	-	0.02
1794	669309.0	4280515.0	Roadway/Open Space	-	-	0.03
1795	669319.0	4280515.0	Roadway/Open Space	-	-	0.03
1796	669329.0	4280515.0	Roadway/Open Space	-	-	0.03
1797	669339.0	4280515.0	Roadway/Open Space	-	-	0.02
1798	669349.0	4280515.0	Roadway/Open Space	-	-	0.02
1799	669359.0	4280515.0	Roadway/Open Space	-	-	0.02
1800	669369.0	4280515.0	Roadway/Open Space	-	-	0.02
1801	669379.0	4280515.0	Roadway/Open Space	-	-	0.02
1802	669389.0	4280515.0	Roadway/Open Space	-	-	0.02
1803	669399.0	4280515.0	Roadway/Open Space	-	-	0.02
1804	669409.0	4280515.0	Roadway/Open Space	-	-	0.02
1805	669419.0	4280515.0	Roadway/Open Space	-	-	0.02
1806	669429.0	4280515.0	Roadway/Open Space	-	-	0.02
1807	669439.0	4280515.0	Roadway/Open Space	-	-	0.02
1808	669449.0	4280515.0	Roadway/Open Space	-	-	0.02
1809	669459.0	4280515.0	Roadway/Open Space	-	-	0.02
1810	669469.0	4280515.0	Roadway/Open Space	-	-	0.02
1811	669479.0	4280515.0	Roadway/Open Space	-	-	0.02
1812	669489.0	4280515.0	Roadway/Open Space	-	-	0.02
1813	669499.0	4280515.0	Roadway/Open Space	-	-	0.02
1814	669509.0	4280515.0	Roadway/Open Space	-	-	0.02
1815	669519.0	4280515.0	Roadway/Open Space	-	-	0.02
1816	669529.0	4280515.0	Roadway/Open Space	-	-	0.02
1817	668649.0	4280525.0	Roadway/Open Space	-	-	0.02
1818	668659.0	4280525.0	Roadway/Open Space	-	-	0.02
1819	668669.0	4280525.0	Roadway/Open Space	-	-	0.02
1820	668679.0	4280525.0	Roadway/Open Space	-	-	0.02
1821	668689.0	4280525.0	Roadway/Open Space	-	-	0.02
1822	668699.0	4280525.0	Roadway/Open Space	-	-	0.02
1823	668709.0	4280525.0	Roadway/Open Space	-	-	0.02
1824	668719.0	4280525.0	Roadway/Open Space	-	-	0.02
1825	668729.0	4280525.0	Roadway/Open Space	-	-	0.02
1826	668739.0	4280525.0	Roadway/Open Space	-	-	0.02
1827	668749.0	4280525.0	Roadway/Open Space	-	-	0.02
1828	668759.0	4280525.0	Roadway/Open Space	-	-	0.02
1829	668769.0	4280525.0	Roadway/Open Space	-	-	0.02
1830	668779.0	4280525.0	Roadway/Open Space	-	-	0.02
1831	668789.0	4280525.0	Roadway/Open Space	-	-	0.02
1832	668799.0	4280525.0	Roadway/Open Space	-	-	0.02
1833	668809.0	4280525.0	Roadway/Open Space	-	-	0.02
1834	668819.0	4280525.0	Roadway/Open Space	-	-	0.02
1835	668829.0	4280525.0	Roadway/Open Space	-	-	0.02
1836	668839.0	4280525.0	Roadway/Open Space	-	-	0.02
1837	668849.0	4280525.0	Roadway/Open Space	-	-	0.02
1838	668859.0	4280525.0	Roadway/Open Space	-	-	0.02
1839	668869.0	4280525.0	Roadway/Open Space	-	-	0.02
1840	668879.0	4280525.0	Roadway/Open Space	-	-	0.02
1841	668889.0	4280525.0	Roadway/Open Space	-	-	0.02
1842	668899.0	4280525.0	Roadway/Open Space	-	-	0.02
1843	668909.0	4280525.0	Roadway/Open Space	-	-	0.02
1844	668919.0	4280525.0	Roadway/Open Space	-	-	0.02
1845	668929.0	4280525.0	Roadway/Open Space	-	-	0.02
1846	668939.0	4280525.0	Roadway/Open Space	-	-	0.02
1847	668949.0	4280525.0	Roadway/Open Space	-	-	0.02
1848	668959.0	4280525.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1849	668969.0	4280525.0	Roadway/Open Space	-	-	0.03
1850	668979.0	4280525.0	Roadway/Open Space	-	-	0.03
1851	668989.0	4280525.0	Roadway/Open Space	-	-	0.03
1852	668999.0	4280525.0	Roadway/Open Space	-	-	0.03
1853	669009.0	4280525.0	Roadway/Open Space	-	-	0.03
1854	669019.0	4280525.0	Roadway/Open Space	-	-	0.03
1855	669029.0	4280525.0	Roadway/Open Space	-	-	0.03
1856	669039.0	4280525.0	Roadway/Open Space	-	-	0.03
1857	669049.0	4280525.0	Roadway/Open Space	-	-	0.03
1858	669059.0	4280525.0	Roadway/Open Space	-	-	0.03
1859	669069.0	4280525.0	Roadway/Open Space	-	-	0.03
1860	669079.0	4280525.0	Roadway/Open Space	-	-	0.02
1861	669089.0	4280525.0	Roadway/Open Space	-	-	0.02
1862	669099.0	4280525.0	Roadway/Open Space	-	-	0.02
1863	669109.0	4280525.0	Roadway/Open Space	-	-	0.02
1864	669119.0	4280525.0	Roadway/Open Space	-	-	0.02
1865	669129.0	4280525.0	Roadway/Open Space	-	-	0.02
1866	669139.0	4280525.0	Roadway/Open Space	-	-	0.02
1867	669149.0	4280525.0	Roadway/Open Space	-	-	0.02
1868	669159.0	4280525.0	Roadway/Open Space	-	-	0.02
1869	669169.0	4280525.0	Roadway/Open Space	-	-	0.02
1870	669179.0	4280525.0	Roadway/Open Space	-	-	0.02
1871	669189.0	4280525.0	Roadway/Open Space	-	-	0.02
1872	669199.0	4280525.0	Roadway/Open Space	-	-	0.02
1873	669209.0	4280525.0	Roadway/Open Space	-	-	0.02
1874	669219.0	4280525.0	Roadway/Open Space	-	-	0.02
1875	669229.0	4280525.0	Roadway/Open Space	-	-	0.03
1876	669239.0	4280525.0	Roadway/Open Space	-	-	0.03
1877	669249.0	4280525.0	Roadway/Open Space	-	-	0.03
1878	669259.0	4280525.0	Roadway/Open Space	-	-	0.03
1879	669269.0	4280525.0	Roadway/Open Space	-	-	0.03
1880	669279.0	4280525.0	Roadway/Open Space	-	-	0.03
1881	669289.0	4280525.0	Roadway/Open Space	-	-	0.03
1882	669299.0	4280525.0	Roadway/Open Space	-	-	0.03
1883	669309.0	4280525.0	Roadway/Open Space	-	-	0.03
1884	669319.0	4280525.0	Roadway/Open Space	-	-	0.03
1885	669329.0	4280525.0	Roadway/Open Space	-	-	0.03
1886	669339.0	4280525.0	Roadway/Open Space	-	-	0.03
1887	669349.0	4280525.0	Roadway/Open Space	-	-	0.02
1888	669359.0	4280525.0	Roadway/Open Space	-	-	0.02
1889	669369.0	4280525.0	Roadway/Open Space	-	-	0.02
1890	669379.0	4280525.0	Roadway/Open Space	-	-	0.02
1891	669389.0	4280525.0	Roadway/Open Space	-	-	0.02
1892	669399.0	4280525.0	Roadway/Open Space	-	-	0.02
1893	669409.0	4280525.0	Roadway/Open Space	-	-	0.02
1894	669419.0	4280525.0	Roadway/Open Space	-	-	0.02
1895	669429.0	4280525.0	Roadway/Open Space	-	-	0.02
1896	669439.0	4280525.0	Roadway/Open Space	-	-	0.02
1897	669449.0	4280525.0	Roadway/Open Space	-	-	0.02
1898	669459.0	4280525.0	Roadway/Open Space	-	-	0.02
1899	669469.0	4280525.0	Roadway/Open Space	-	-	0.02
1900	669479.0	4280525.0	Roadway/Open Space	-	-	0.02
1901	669489.0	4280525.0	Roadway/Open Space	-	-	0.02
1902	669499.0	4280525.0	Roadway/Open Space	-	-	0.02
1903	669509.0	4280525.0	Roadway/Open Space	-	-	0.02
1904	669519.0	4280525.0	Roadway/Open Space	-	-	0.02
1905	669529.0	4280525.0	Roadway/Open Space	-	-	0.02
1906	669539.0	4280525.0	Roadway/Open Space	-	-	0.02
1907	668639.0	4280535.0	Roadway/Open Space	-	-	0.02
1908	668649.0	4280535.0	Roadway/Open Space	-	-	0.02
1909	668659.0	4280535.0	Roadway/Open Space	-	-	0.02
1910	668669.0	4280535.0	Roadway/Open Space	-	-	0.02
1911	668679.0	4280535.0	Roadway/Open Space	-	-	0.02
1912	668689.0	4280535.0	Roadway/Open Space	-	-	0.02
1913	668699.0	4280535.0	Roadway/Open Space	-	-	0.02
1914	668709.0	4280535.0	Roadway/Open Space	-	-	0.02
1915	668719.0	4280535.0	Roadway/Open Space	-	-	0.02
1916	668729.0	4280535.0	Roadway/Open Space	-	-	0.02
1917	668739.0	4280535.0	Roadway/Open Space	-	-	0.02
1918	668749.0	4280535.0	Roadway/Open Space	-	-	0.02
1919	668759.0	4280535.0	Roadway/Open Space	-	-	0.02
1920	668769.0	4280535.0	Roadway/Open Space	-	-	0.02
1921	668779.0	4280535.0	Roadway/Open Space	-	-	0.02
1922	668789.0	4280535.0	Roadway/Open Space	-	-	0.02
1923	668799.0	4280535.0	Roadway/Open Space	-	-	0.02
1924	668809.0	4280535.0	Roadway/Open Space	-	-	0.02
1925	668819.0	4280535.0	Roadway/Open Space	-	-	0.02
1926	668829.0	4280535.0	Roadway/Open Space	-	-	0.02
1927	668839.0	4280535.0	Roadway/Open Space	-	-	0.02
1928	668849.0	4280535.0	Roadway/Open Space	-	-	0.02
1929	668859.0	4280535.0	Roadway/Open Space	-	-	0.02
1930	668869.0	4280535.0	Roadway/Open Space	-	-	0.02
1931	668879.0	4280535.0	Roadway/Open Space	-	-	0.02
1932	668889.0	4280535.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1933	668899.0	4280535.0	Roadway/Open Space	-	-	0.02
1934	668909.0	4280535.0	Roadway/Open Space	-	-	0.02
1935	668919.0	4280535.0	Roadway/Open Space	-	-	0.02
1936	668929.0	4280535.0	Roadway/Open Space	-	-	0.02
1937	668939.0	4280535.0	Roadway/Open Space	-	-	0.02
1938	668949.0	4280535.0	Roadway/Open Space	-	-	0.03
1939	668959.0	4280535.0	Roadway/Open Space	-	-	0.03
1940	668969.0	4280535.0	Roadway/Open Space	-	-	0.03
1941	668979.0	4280535.0	Roadway/Open Space	-	-	0.03
1942	668989.0	4280535.0	Roadway/Open Space	-	-	0.03
1943	668999.0	4280535.0	Roadway/Open Space	-	-	0.03
1944	669009.0	4280535.0	Roadway/Open Space	-	-	0.03
1945	669019.0	4280535.0	Roadway/Open Space	-	-	0.03
1946	669029.0	4280535.0	Roadway/Open Space	-	-	0.03
1947	669039.0	4280535.0	Roadway/Open Space	-	-	0.03
1948	669049.0	4280535.0	Roadway/Open Space	-	-	0.03
1949	669059.0	4280535.0	Roadway/Open Space	-	-	0.03
1950	669069.0	4280535.0	Roadway/Open Space	-	-	0.03
1951	669079.0	4280535.0	Roadway/Open Space	-	-	0.03
1952	669089.0	4280535.0	Roadway/Open Space	-	-	0.03
1953	669099.0	4280535.0	Roadway/Open Space	-	-	0.02
1954	669109.0	4280535.0	Roadway/Open Space	-	-	0.02
1955	669119.0	4280535.0	Roadway/Open Space	-	-	0.02
1956	669129.0	4280535.0	Roadway/Open Space	-	-	0.02
1957	669139.0	4280535.0	Roadway/Open Space	-	-	0.02
1958	669149.0	4280535.0	Roadway/Open Space	-	-	0.02
1959	669159.0	4280535.0	Roadway/Open Space	-	-	0.03
1960	669169.0	4280535.0	Roadway/Open Space	-	-	0.03
1961	669179.0	4280535.0	Roadway/Open Space	-	-	0.03
1962	669189.0	4280535.0	Roadway/Open Space	-	-	0.03
1963	669199.0	4280535.0	Roadway/Open Space	-	-	0.03
1964	669209.0	4280535.0	Roadway/Open Space	-	-	0.03
1965	669219.0	4280535.0	Roadway/Open Space	-	-	0.03
1966	669229.0	4280535.0	Roadway/Open Space	-	-	0.03
1967	669239.0	4280535.0	Roadway/Open Space	-	-	0.03
1968	669249.0	4280535.0	Roadway/Open Space	-	-	0.03
1969	669259.0	4280535.0	Roadway/Open Space	-	-	0.03
1970	669269.0	4280535.0	Roadway/Open Space	-	-	0.03
1971	669279.0	4280535.0	Roadway/Open Space	-	-	0.03
1972	669289.0	4280535.0	Roadway/Open Space	-	-	0.03
1973	669299.0	4280535.0	Roadway/Open Space	-	-	0.03
1974	669309.0	4280535.0	Roadway/Open Space	-	-	0.03
1975	669319.0	4280535.0	Roadway/Open Space	-	-	0.03
1976	669329.0	4280535.0	Roadway/Open Space	-	-	0.03
1977	669339.0	4280535.0	Roadway/Open Space	-	-	0.03
1978	669349.0	4280535.0	Roadway/Open Space	-	-	0.02
1979	669359.0	4280535.0	Roadway/Open Space	-	-	0.02
1980	669369.0	4280535.0	Roadway/Open Space	-	-	0.02
1981	669379.0	4280535.0	Roadway/Open Space	-	-	0.02
1982	669389.0	4280535.0	Roadway/Open Space	-	-	0.02
1983	669399.0	4280535.0	Roadway/Open Space	-	-	0.02
1984	669409.0	4280535.0	Roadway/Open Space	-	-	0.02
1985	669419.0	4280535.0	Roadway/Open Space	-	-	0.02
1986	669429.0	4280535.0	Roadway/Open Space	-	-	0.02
1987	669439.0	4280535.0	Roadway/Open Space	-	-	0.02
1988	669449.0	4280535.0	Roadway/Open Space	-	-	0.02
1989	669459.0	4280535.0	Roadway/Open Space	-	-	0.02
1990	669469.0	4280535.0	Roadway/Open Space	-	-	0.02
1991	669479.0	4280535.0	Roadway/Open Space	-	-	0.02
1992	669489.0	4280535.0	Roadway/Open Space	-	-	0.02
1993	669499.0	4280535.0	Roadway/Open Space	-	-	0.02
1994	669509.0	4280535.0	Roadway/Open Space	-	-	0.02
1995	669519.0	4280535.0	Roadway/Open Space	-	-	0.02
1996	669529.0	4280535.0	Roadway/Open Space	-	-	0.02
1997	669539.0	4280535.0	Roadway/Open Space	-	-	0.02
1998	669549.0	4280535.0	Roadway/Open Space	-	-	0.02
1999	668639.0	4280545.0	Roadway/Open Space	-	-	0.02
2000	668649.0	4280545.0	Roadway/Open Space	-	-	0.02
2001	668659.0	4280545.0	Roadway/Open Space	-	-	0.02
2002	668669.0	4280545.0	Roadway/Open Space	-	-	0.02
2003	668679.0	4280545.0	Roadway/Open Space	-	-	0.02
2004	668689.0	4280545.0	Roadway/Open Space	-	-	0.02
2005	668699.0	4280545.0	Roadway/Open Space	-	-	0.02
2006	668709.0	4280545.0	Roadway/Open Space	-	-	0.02
2007	668719.0	4280545.0	Roadway/Open Space	-	-	0.02
2008	668729.0	4280545.0	Roadway/Open Space	-	-	0.02
2009	668739.0	4280545.0	Roadway/Open Space	-	-	0.02
2010	668749.0	4280545.0	Roadway/Open Space	-	-	0.02
2011	668759.0	4280545.0	Roadway/Open Space	-	-	0.02
2012	668769.0	4280545.0	Roadway/Open Space	-	-	0.03
2013	668779.0	4280545.0	Roadway/Open Space	-	-	0.03
2014	668789.0	4280545.0	Roadway/Open Space	-	-	0.03
2015	668799.0	4280545.0	Roadway/Open Space	-	-	0.03
2016	668809.0	4280545.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2017	668819.0	4280545.0	Roadway/Open Space	-	-	0.03
2018	668829.0	4280545.0	Roadway/Open Space	-	-	0.03
2019	668839.0	4280545.0	Roadway/Open Space	-	-	0.02
2020	668849.0	4280545.0	Roadway/Open Space	-	-	0.03
2021	668859.0	4280545.0	Roadway/Open Space	-	-	0.03
2022	668869.0	4280545.0	Roadway/Open Space	-	-	0.02
2023	668879.0	4280545.0	Roadway/Open Space	-	-	0.02
2024	668889.0	4280545.0	Roadway/Open Space	-	-	0.02
2025	668899.0	4280545.0	Roadway/Open Space	-	-	0.02
2026	668909.0	4280545.0	Roadway/Open Space	-	-	0.02
2027	668919.0	4280545.0	Roadway/Open Space	-	-	0.02
2028	668929.0	4280545.0	Roadway/Open Space	-	-	0.02
2029	668939.0	4280545.0	Roadway/Open Space	-	-	0.03
2030	668949.0	4280545.0	Roadway/Open Space	-	-	0.03
2031	668959.0	4280545.0	Roadway/Open Space	-	-	0.03
2032	668969.0	4280545.0	Roadway/Open Space	-	-	0.03
2033	668979.0	4280545.0	Roadway/Open Space	-	-	0.03
2034	668989.0	4280545.0	Roadway/Open Space	-	-	0.03
2035	668999.0	4280545.0	Roadway/Open Space	-	-	0.03
2036	669009.0	4280545.0	Roadway/Open Space	-	-	0.03
2037	669019.0	4280545.0	Roadway/Open Space	-	-	0.03
2038	669029.0	4280545.0	Roadway/Open Space	-	-	0.03
2039	669039.0	4280545.0	Roadway/Open Space	-	-	0.03
2040	669049.0	4280545.0	Roadway/Open Space	-	-	0.03
2041	669059.0	4280545.0	Roadway/Open Space	-	-	0.03
2042	669069.0	4280545.0	Roadway/Open Space	-	-	0.03
2043	669079.0	4280545.0	Roadway/Open Space	-	-	0.03
2044	669089.0	4280545.0	Roadway/Open Space	-	-	0.03
2045	669099.0	4280545.0	Roadway/Open Space	-	-	0.03
2046	669109.0	4280545.0	Roadway/Open Space	-	-	0.03
2047	669119.0	4280545.0	Roadway/Open Space	-	-	0.03
2048	669129.0	4280545.0	Roadway/Open Space	-	-	0.03
2049	669139.0	4280545.0	Roadway/Open Space	-	-	0.03
2050	669149.0	4280545.0	Roadway/Open Space	-	-	0.03
2051	669159.0	4280545.0	Roadway/Open Space	-	-	0.03
2052	669169.0	4280545.0	Roadway/Open Space	-	-	0.03
2053	669179.0	4280545.0	Roadway/Open Space	-	-	0.03
2054	669189.0	4280545.0	Roadway/Open Space	-	-	0.03
2055	669199.0	4280545.0	Roadway/Open Space	-	-	0.03
2056	669209.0	4280545.0	Roadway/Open Space	-	-	0.03
2057	669219.0	4280545.0	Roadway/Open Space	-	-	0.03
2058	669229.0	4280545.0	Roadway/Open Space	-	-	0.03
2059	669239.0	4280545.0	Roadway/Open Space	-	-	0.03
2060	669249.0	4280545.0	Roadway/Open Space	-	-	0.03
2061	669259.0	4280545.0	Roadway/Open Space	-	-	0.03
2062	669269.0	4280545.0	Roadway/Open Space	-	-	0.03
2063	669279.0	4280545.0	Roadway/Open Space	-	-	0.03
2064	669289.0	4280545.0	Roadway/Open Space	-	-	0.03
2065	669299.0	4280545.0	Roadway/Open Space	-	-	0.03
2066	669309.0	4280545.0	Roadway/Open Space	-	-	0.03
2067	669319.0	4280545.0	Roadway/Open Space	-	-	0.03
2068	669329.0	4280545.0	Roadway/Open Space	-	-	0.03
2069	669339.0	4280545.0	Roadway/Open Space	-	-	0.03
2070	669349.0	4280545.0	Roadway/Open Space	-	-	0.03
2071	669359.0	4280545.0	Roadway/Open Space	-	-	0.02
2072	669369.0	4280545.0	Roadway/Open Space	-	-	0.02
2073	669379.0	4280545.0	Roadway/Open Space	-	-	0.02
2074	669389.0	4280545.0	Roadway/Open Space	-	-	0.02
2075	669399.0	4280545.0	Roadway/Open Space	-	-	0.02
2076	669409.0	4280545.0	Roadway/Open Space	-	-	0.02
2077	669419.0	4280545.0	Roadway/Open Space	-	-	0.02
2078	669429.0	4280545.0	Roadway/Open Space	-	-	0.02
2079	669439.0	4280545.0	Roadway/Open Space	-	-	0.02
2080	669449.0	4280545.0	Roadway/Open Space	-	-	0.02
2081	669459.0	4280545.0	Roadway/Open Space	-	-	0.02
2082	669469.0	4280545.0	Roadway/Open Space	-	-	0.02
2083	669479.0	4280545.0	Roadway/Open Space	-	-	0.02
2084	669489.0	4280545.0	Roadway/Open Space	-	-	0.02
2085	669499.0	4280545.0	Roadway/Open Space	-	-	0.02
2086	669509.0	4280545.0	Roadway/Open Space	-	-	0.02
2087	669519.0	4280545.0	Roadway/Open Space	-	-	0.02
2088	669529.0	4280545.0	Roadway/Open Space	-	-	0.02
2089	669539.0	4280545.0	Roadway/Open Space	-	-	0.02
2090	669549.0	4280545.0	Roadway/Open Space	-	-	0.02
2091	668629.0	4280555.0	Roadway/Open Space	-	-	0.02
2092	668639.0	4280555.0	Roadway/Open Space	-	-	0.02
2093	668649.0	4280555.0	Roadway/Open Space	-	-	0.02
2094	668659.0	4280555.0	Roadway/Open Space	-	-	0.02
2095	668669.0	4280555.0	Roadway/Open Space	-	-	0.02
2096	668679.0	4280555.0	Roadway/Open Space	-	-	0.02
2097	668689.0	4280555.0	Roadway/Open Space	-	-	0.02
2098	668699.0	4280555.0	Roadway/Open Space	-	-	0.02
2099	668709.0	4280555.0	Roadway/Open Space	-	-	0.02
2100	668719.0	4280555.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2101	668729.0	4280555.0	Roadway/Open Space	-	-	0.02
2102	668739.0	4280555.0	Roadway/Open Space	-	-	0.02
2103	668749.0	4280555.0	Roadway/Open Space	-	-	0.02
2104	668759.0	4280555.0	Roadway/Open Space	-	-	0.02
2105	668769.0	4280555.0	Roadway/Open Space	-	-	0.03
2106	668779.0	4280555.0	Roadway/Open Space	-	-	0.03
2107	668789.0	4280555.0	Roadway/Open Space	-	-	0.03
2108	668799.0	4280555.0	Roadway/Open Space	-	-	0.03
2109	668809.0	4280555.0	Roadway/Open Space	-	-	0.03
2110	668819.0	4280555.0	Roadway/Open Space	-	-	0.03
2111	668829.0	4280555.0	Roadway/Open Space	-	-	0.03
2112	668839.0	4280555.0	Roadway/Open Space	-	-	0.03
2113	668849.0	4280555.0	Roadway/Open Space	-	-	0.03
2114	668859.0	4280555.0	Roadway/Open Space	-	-	0.03
2115	668869.0	4280555.0	Roadway/Open Space	-	-	0.03
2116	668879.0	4280555.0	Roadway/Open Space	-	-	0.02
2117	668889.0	4280555.0	Roadway/Open Space	-	-	0.02
2118	668899.0	4280555.0	Roadway/Open Space	-	-	0.02
2119	668909.0	4280555.0	Roadway/Open Space	-	-	0.02
2120	668919.0	4280555.0	Roadway/Open Space	-	-	0.02
2121	668929.0	4280555.0	Roadway/Open Space	-	-	0.02
2122	668939.0	4280555.0	Roadway/Open Space	-	-	0.03
2123	668949.0	4280555.0	Roadway/Open Space	-	-	0.03
2124	668959.0	4280555.0	Roadway/Open Space	-	-	0.03
2125	668969.0	4280555.0	Roadway/Open Space	-	-	0.03
2126	668979.0	4280555.0	Roadway/Open Space	-	-	0.03
2127	668989.0	4280555.0	Roadway/Open Space	-	-	0.03
2128	668999.0	4280555.0	Roadway/Open Space	-	-	0.03
2129	669009.0	4280555.0	Roadway/Open Space	-	-	0.03
2130	669019.0	4280555.0	Roadway/Open Space	-	-	0.03
2131	669029.0	4280555.0	Roadway/Open Space	-	-	0.03
2132	669039.0	4280555.0	Roadway/Open Space	-	-	0.03
2133	669049.0	4280555.0	Roadway/Open Space	-	-	0.03
2134	669059.0	4280555.0	Roadway/Open Space	-	-	0.03
2135	669069.0	4280555.0	Roadway/Open Space	-	-	0.03
2136	669079.0	4280555.0	Roadway/Open Space	-	-	0.03
2137	669089.0	4280555.0	Roadway/Open Space	-	-	0.03
2138	669099.0	4280555.0	Roadway/Open Space	-	-	0.03
2139	669109.0	4280555.0	Roadway/Open Space	-	-	0.03
2140	669119.0	4280555.0	Roadway/Open Space	-	-	0.03
2141	669129.0	4280555.0	Roadway/Open Space	-	-	0.03
2142	669139.0	4280555.0	Roadway/Open Space	-	-	0.03
2143	669149.0	4280555.0	Roadway/Open Space	-	-	0.03
2144	669159.0	4280555.0	Roadway/Open Space	-	-	0.03
2145	669169.0	4280555.0	Roadway/Open Space	-	-	0.03
2146	669179.0	4280555.0	Roadway/Open Space	-	-	0.03
2147	669189.0	4280555.0	Roadway/Open Space	-	-	0.03
2148	669199.0	4280555.0	Roadway/Open Space	-	-	0.03
2149	669209.0	4280555.0	Roadway/Open Space	-	-	0.03
2150	669219.0	4280555.0	Roadway/Open Space	-	-	0.03
2151	669229.0	4280555.0	Roadway/Open Space	-	-	0.03
2152	669239.0	4280555.0	Roadway/Open Space	-	-	0.03
2153	669249.0	4280555.0	Roadway/Open Space	-	-	0.03
2154	669259.0	4280555.0	Roadway/Open Space	-	-	0.03
2155	669269.0	4280555.0	Roadway/Open Space	-	-	0.03
2156	669279.0	4280555.0	Roadway/Open Space	-	-	0.03
2157	669289.0	4280555.0	Roadway/Open Space	-	-	0.03
2158	669299.0	4280555.0	Roadway/Open Space	-	-	0.03
2159	669309.0	4280555.0	Roadway/Open Space	-	-	0.03
2160	669319.0	4280555.0	Roadway/Open Space	-	-	0.03
2161	669329.0	4280555.0	Roadway/Open Space	-	-	0.03
2162	669339.0	4280555.0	Roadway/Open Space	-	-	0.03
2163	669349.0	4280555.0	Roadway/Open Space	-	-	0.03
2164	669359.0	4280555.0	Roadway/Open Space	-	-	0.03
2165	669369.0	4280555.0	Roadway/Open Space	-	-	0.02
2166	669379.0	4280555.0	Roadway/Open Space	-	-	0.02
2167	669389.0	4280555.0	Roadway/Open Space	-	-	0.02
2168	669399.0	4280555.0	Roadway/Open Space	-	-	0.02
2169	669409.0	4280555.0	Roadway/Open Space	-	-	0.02
2170	669419.0	4280555.0	Roadway/Open Space	-	-	0.02
2171	669429.0	4280555.0	Roadway/Open Space	-	-	0.02
2172	669439.0	4280555.0	Roadway/Open Space	-	-	0.02
2173	669449.0	4280555.0	Roadway/Open Space	-	-	0.02
2174	669459.0	4280555.0	Roadway/Open Space	-	-	0.02
2175	669469.0	4280555.0	Roadway/Open Space	-	-	0.02
2176	669479.0	4280555.0	Roadway/Open Space	-	-	0.02
2177	669489.0	4280555.0	Roadway/Open Space	-	-	0.02
2178	669499.0	4280555.0	Roadway/Open Space	-	-	0.02
2179	669509.0	4280555.0	Roadway/Open Space	-	-	0.02
2180	669519.0	4280555.0	Roadway/Open Space	-	-	0.02
2181	669529.0	4280555.0	Roadway/Open Space	-	-	0.02
2182	669539.0	4280555.0	Roadway/Open Space	-	-	0.02
2183	669549.0	4280555.0	Roadway/Open Space	-	-	0.02
2184	669559.0	4280555.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2185	668629.0	4280565.0	Roadway/Open Space	-	-	0.02
2186	668639.0	4280565.0	Roadway/Open Space	-	-	0.02
2187	668649.0	4280565.0	Roadway/Open Space	-	-	0.02
2188	668659.0	4280565.0	Roadway/Open Space	-	-	0.02
2189	668669.0	4280565.0	Roadway/Open Space	-	-	0.02
2190	668679.0	4280565.0	Roadway/Open Space	-	-	0.02
2191	668689.0	4280565.0	Roadway/Open Space	-	-	0.02
2192	668699.0	4280565.0	Roadway/Open Space	-	-	0.02
2193	668709.0	4280565.0	Roadway/Open Space	-	-	0.02
2194	668719.0	4280565.0	Roadway/Open Space	-	-	0.02
2195	668729.0	4280565.0	Roadway/Open Space	-	-	0.02
2196	668739.0	4280565.0	Roadway/Open Space	-	-	0.02
2197	668749.0	4280565.0	Roadway/Open Space	-	-	0.02
2198	668759.0	4280565.0	Roadway/Open Space	-	-	0.02
2199	668769.0	4280565.0	Roadway/Open Space	-	-	0.03
2200	668779.0	4280565.0	Roadway/Open Space	-	-	0.03
2201	668789.0	4280565.0	Roadway/Open Space	-	-	0.03
2202	668799.0	4280565.0	Roadway/Open Space	-	-	0.03
2203	668809.0	4280565.0	Roadway/Open Space	-	-	0.03
2204	668819.0	4280565.0	Roadway/Open Space	-	-	0.03
2205	668829.0	4280565.0	Roadway/Open Space	-	-	0.03
2206	668839.0	4280565.0	Roadway/Open Space	-	-	0.03
2207	668849.0	4280565.0	Roadway/Open Space	-	-	0.03
2208	668859.0	4280565.0	Roadway/Open Space	-	-	0.03
2209	668869.0	4280565.0	Roadway/Open Space	-	-	0.03
2210	668879.0	4280565.0	Roadway/Open Space	-	-	0.03
2211	668889.0	4280565.0	Roadway/Open Space	-	-	0.03
2212	668899.0	4280565.0	Roadway/Open Space	-	-	0.03
2213	668909.0	4280565.0	Roadway/Open Space	-	-	0.03
2214	668919.0	4280565.0	Roadway/Open Space	-	-	0.03
2215	668929.0	4280565.0	Roadway/Open Space	-	-	0.03
2216	668939.0	4280565.0	Roadway/Open Space	-	-	0.03
2217	668949.0	4280565.0	Roadway/Open Space	-	-	0.03
2218	668959.0	4280565.0	Roadway/Open Space	-	-	0.03
2219	668969.0	4280565.0	Roadway/Open Space	-	-	0.03
2220	668979.0	4280565.0	Roadway/Open Space	-	-	0.03
2221	668989.0	4280565.0	Roadway/Open Space	-	-	0.03
2222	668999.0	4280565.0	Roadway/Open Space	-	-	0.03
2223	669009.0	4280565.0	Roadway/Open Space	-	-	0.03
2224	669019.0	4280565.0	Roadway/Open Space	-	-	0.03
2225	669029.0	4280565.0	Roadway/Open Space	-	-	0.03
2226	669039.0	4280565.0	Roadway/Open Space	-	-	0.03
2227	669049.0	4280565.0	Roadway/Open Space	-	-	0.03
2228	669059.0	4280565.0	Roadway/Open Space	-	-	0.03
2229	669069.0	4280565.0	Roadway/Open Space	-	-	0.03
2230	669079.0	4280565.0	Roadway/Open Space	-	-	0.03
2231	669089.0	4280565.0	Roadway/Open Space	-	-	0.03
2232	669099.0	4280565.0	Roadway/Open Space	-	-	0.03
2233	669109.0	4280565.0	Roadway/Open Space	-	-	0.03
2234	669119.0	4280565.0	Roadway/Open Space	-	-	0.03
2235	669129.0	4280565.0	Roadway/Open Space	-	-	0.03
2236	669139.0	4280565.0	Roadway/Open Space	-	-	0.03
2237	669149.0	4280565.0	Roadway/Open Space	-	-	0.03
2238	669159.0	4280565.0	Roadway/Open Space	-	-	0.03
2239	669169.0	4280565.0	Roadway/Open Space	-	-	0.03
2240	669179.0	4280565.0	Roadway/Open Space	-	-	0.03
2241	669189.0	4280565.0	Roadway/Open Space	-	-	0.03
2242	669199.0	4280565.0	Roadway/Open Space	-	-	0.03
2243	669209.0	4280565.0	Roadway/Open Space	-	-	0.03
2244	669219.0	4280565.0	Roadway/Open Space	-	-	0.03
2245	669229.0	4280565.0	Roadway/Open Space	-	-	0.03
2246	669239.0	4280565.0	Roadway/Open Space	-	-	0.03
2247	669249.0	4280565.0	Roadway/Open Space	-	-	0.03
2248	669259.0	4280565.0	Roadway/Open Space	-	-	0.03
2249	669269.0	4280565.0	Roadway/Open Space	-	-	0.03
2250	669279.0	4280565.0	Roadway/Open Space	-	-	0.03
2251	669289.0	4280565.0	Roadway/Open Space	-	-	0.03
2252	669299.0	4280565.0	Roadway/Open Space	-	-	0.03
2253	669309.0	4280565.0	Roadway/Open Space	-	-	0.03
2254	669319.0	4280565.0	Roadway/Open Space	-	-	0.03
2255	669329.0	4280565.0	Roadway/Open Space	-	-	0.03
2256	669339.0	4280565.0	Roadway/Open Space	-	-	0.03
2257	669349.0	4280565.0	Roadway/Open Space	-	-	0.03
2258	669359.0	4280565.0	Roadway/Open Space	-	-	0.03
2259	669369.0	4280565.0	Roadway/Open Space	-	-	0.02
2260	669379.0	4280565.0	Roadway/Open Space	-	-	0.02
2261	669389.0	4280565.0	Roadway/Open Space	-	-	0.02
2262	669399.0	4280565.0	Roadway/Open Space	-	-	0.02
2263	669409.0	4280565.0	Roadway/Open Space	-	-	0.02
2264	669419.0	4280565.0	Roadway/Open Space	-	-	0.02
2265	669429.0	4280565.0	Roadway/Open Space	-	-	0.02
2266	669439.0	4280565.0	Roadway/Open Space	-	-	0.02
2267	669449.0	4280565.0	Roadway/Open Space	-	-	0.02
2268	669459.0	4280565.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2269	669469.0	4280565.0	Roadway/Open Space	-	-	0.02
2270	669479.0	4280565.0	Roadway/Open Space	-	-	0.02
2271	669489.0	4280565.0	Roadway/Open Space	-	-	0.02
2272	669499.0	4280565.0	Roadway/Open Space	-	-	0.02
2273	669509.0	4280565.0	Roadway/Open Space	-	-	0.02
2274	669519.0	4280565.0	Roadway/Open Space	-	-	0.02
2275	669529.0	4280565.0	Roadway/Open Space	-	-	0.02
2276	669539.0	4280565.0	Roadway/Open Space	-	-	0.02
2277	669549.0	4280565.0	Roadway/Open Space	-	-	0.02
2278	669559.0	4280565.0	Roadway/Open Space	-	-	0.02
2279	669569.0	4280565.0	Roadway/Open Space	-	-	0.02
2280	668619.0	4280575.0	Roadway/Open Space	-	-	0.02
2281	668629.0	4280575.0	Roadway/Open Space	-	-	0.02
2282	668639.0	4280575.0	Roadway/Open Space	-	-	0.02
2283	668649.0	4280575.0	Roadway/Open Space	-	-	0.02
2284	668659.0	4280575.0	Roadway/Open Space	-	-	0.02
2285	668669.0	4280575.0	Roadway/Open Space	-	-	0.02
2286	668679.0	4280575.0	Roadway/Open Space	-	-	0.02
2287	668689.0	4280575.0	Roadway/Open Space	-	-	0.02
2288	668699.0	4280575.0	Roadway/Open Space	-	-	0.02
2289	668709.0	4280575.0	Roadway/Open Space	-	-	0.02
2290	668719.0	4280575.0	Roadway/Open Space	-	-	0.02
2291	668729.0	4280575.0	Roadway/Open Space	-	-	0.02
2292	668739.0	4280575.0	Roadway/Open Space	-	-	0.02
2293	668749.0	4280575.0	Roadway/Open Space	-	-	0.02
2294	668759.0	4280575.0	Roadway/Open Space	-	-	0.03
2295	668769.0	4280575.0	Roadway/Open Space	-	-	0.03
2296	668779.0	4280575.0	Roadway/Open Space	-	-	0.03
2297	668789.0	4280575.0	Roadway/Open Space	-	-	0.03
2298	668799.0	4280575.0	Roadway/Open Space	-	-	0.03
2299	668809.0	4280575.0	Roadway/Open Space	-	-	0.03
2300	668819.0	4280575.0	Roadway/Open Space	-	-	0.03
2301	668829.0	4280575.0	Roadway/Open Space	-	-	0.03
2302	668839.0	4280575.0	Roadway/Open Space	-	-	0.03
2303	668849.0	4280575.0	Roadway/Open Space	-	-	0.03
2304	668859.0	4280575.0	Roadway/Open Space	-	-	0.03
2305	668869.0	4280575.0	Roadway/Open Space	-	-	0.03
2306	668879.0	4280575.0	Roadway/Open Space	-	-	0.03
2307	668889.0	4280575.0	Roadway/Open Space	-	-	0.03
2308	668899.0	4280575.0	Roadway/Open Space	-	-	0.03
2309	668909.0	4280575.0	Roadway/Open Space	-	-	0.03
2310	668919.0	4280575.0	Roadway/Open Space	-	-	0.03
2311	668929.0	4280575.0	Roadway/Open Space	-	-	0.03
2312	668939.0	4280575.0	Roadway/Open Space	-	-	0.03
2313	668949.0	4280575.0	Roadway/Open Space	-	-	0.03
2314	668959.0	4280575.0	Roadway/Open Space	-	-	0.03
2315	668969.0	4280575.0	Roadway/Open Space	-	-	0.03
2316	668979.0	4280575.0	Roadway/Open Space	-	-	0.03
2317	668989.0	4280575.0	Roadway/Open Space	-	-	0.03
2318	668999.0	4280575.0	Roadway/Open Space	-	-	0.03
2319	669009.0	4280575.0	Roadway/Open Space	-	-	0.03
2320	669019.0	4280575.0	Roadway/Open Space	-	-	0.03
2321	669029.0	4280575.0	Roadway/Open Space	-	-	0.03
2322	669039.0	4280575.0	Roadway/Open Space	-	-	0.03
2323	669049.0	4280575.0	Roadway/Open Space	-	-	0.03
2324	669059.0	4280575.0	Roadway/Open Space	-	-	0.03
2325	669069.0	4280575.0	Roadway/Open Space	-	-	0.03
2326	669079.0	4280575.0	Roadway/Open Space	-	-	0.03
2327	669089.0	4280575.0	Roadway/Open Space	-	-	0.03
2328	669099.0	4280575.0	Roadway/Open Space	-	-	0.03
2329	669109.0	4280575.0	Roadway/Open Space	-	-	0.03
2330	669119.0	4280575.0	Roadway/Open Space	-	-	0.03
2331	669129.0	4280575.0	Roadway/Open Space	-	-	0.03
2332	669139.0	4280575.0	Roadway/Open Space	-	-	0.03
2333	669149.0	4280575.0	Roadway/Open Space	-	-	0.03
2334	669159.0	4280575.0	Roadway/Open Space	-	-	0.03
2335	669169.0	4280575.0	Roadway/Open Space	-	-	0.03
2336	669179.0	4280575.0	Roadway/Open Space	-	-	0.03
2337	669189.0	4280575.0	Roadway/Open Space	-	-	0.03
2338	669199.0	4280575.0	Roadway/Open Space	-	-	0.03
2339	669209.0	4280575.0	Roadway/Open Space	-	-	0.03
2340	669219.0	4280575.0	Roadway/Open Space	-	-	0.03
2341	669229.0	4280575.0	Roadway/Open Space	-	-	0.03
2342	669239.0	4280575.0	Roadway/Open Space	-	-	0.03
2343	669249.0	4280575.0	Roadway/Open Space	-	-	0.03
2344	669259.0	4280575.0	Roadway/Open Space	-	-	0.03
2345	669269.0	4280575.0	Roadway/Open Space	-	-	0.03
2346	669279.0	4280575.0	Roadway/Open Space	-	-	0.03
2347	669289.0	4280575.0	Roadway/Open Space	-	-	0.03
2348	669299.0	4280575.0	Roadway/Open Space	-	-	0.03
2349	669309.0	4280575.0	Roadway/Open Space	-	-	0.04
2350	669319.0	4280575.0	Roadway/Open Space	-	-	0.04
2351	669329.0	4280575.0	Roadway/Open Space	-	-	0.03
2352	669339.0	4280575.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2353	669349.0	4280575.0	Roadway/Open Space	-	-	0.03
2354	669359.0	4280575.0	Roadway/Open Space	-	-	0.03
2355	669369.0	4280575.0	Roadway/Open Space	-	-	0.02
2356	669379.0	4280575.0	Roadway/Open Space	-	-	0.02
2357	669389.0	4280575.0	Roadway/Open Space	-	-	0.02
2358	669399.0	4280575.0	Roadway/Open Space	-	-	0.02
2359	669409.0	4280575.0	Roadway/Open Space	-	-	0.02
2360	669419.0	4280575.0	Roadway/Open Space	-	-	0.02
2361	669429.0	4280575.0	Roadway/Open Space	-	-	0.02
2362	669439.0	4280575.0	Roadway/Open Space	-	-	0.02
2363	669449.0	4280575.0	Roadway/Open Space	-	-	0.02
2364	669459.0	4280575.0	Roadway/Open Space	-	-	0.02
2365	669469.0	4280575.0	Roadway/Open Space	-	-	0.02
2366	669479.0	4280575.0	Roadway/Open Space	-	-	0.02
2367	669489.0	4280575.0	Roadway/Open Space	-	-	0.02
2368	669499.0	4280575.0	Roadway/Open Space	-	-	0.02
2369	669509.0	4280575.0	Roadway/Open Space	-	-	0.02
2370	669519.0	4280575.0	Roadway/Open Space	-	-	0.02
2371	669529.0	4280575.0	Roadway/Open Space	-	-	0.02
2372	669539.0	4280575.0	Roadway/Open Space	-	-	0.02
2373	669549.0	4280575.0	Roadway/Open Space	-	-	0.02
2374	669559.0	4280575.0	Roadway/Open Space	-	-	0.02
2375	669569.0	4280575.0	Roadway/Open Space	-	-	0.02
2376	668619.0	4280585.0	Roadway/Open Space	-	-	0.02
2377	668629.0	4280585.0	Roadway/Open Space	-	-	0.02
2378	668639.0	4280585.0	Roadway/Open Space	-	-	0.02
2379	668649.0	4280585.0	Roadway/Open Space	-	-	0.02
2380	668659.0	4280585.0	Roadway/Open Space	-	-	0.02
2381	668669.0	4280585.0	Roadway/Open Space	-	-	0.02
2382	668679.0	4280585.0	Roadway/Open Space	-	-	0.02
2383	668689.0	4280585.0	Roadway/Open Space	-	-	0.02
2384	668699.0	4280585.0	Roadway/Open Space	-	-	0.02
2385	668709.0	4280585.0	Roadway/Open Space	-	-	0.02
2386	668719.0	4280585.0	Roadway/Open Space	-	-	0.02
2387	668729.0	4280585.0	Roadway/Open Space	-	-	0.02
2388	668739.0	4280585.0	Roadway/Open Space	-	-	0.02
2389	668749.0	4280585.0	Roadway/Open Space	-	-	0.03
2390	668759.0	4280585.0	Roadway/Open Space	-	-	0.03
2391	668769.0	4280585.0	Roadway/Open Space	-	-	0.03
2392	668779.0	4280585.0	Roadway/Open Space	-	-	0.03
2393	668789.0	4280585.0	Roadway/Open Space	-	-	0.03
2394	668799.0	4280585.0	Roadway/Open Space	-	-	0.03
2395	668809.0	4280585.0	Roadway/Open Space	-	-	0.03
2396	668819.0	4280585.0	Roadway/Open Space	-	-	0.03
2397	668829.0	4280585.0	Roadway/Open Space	-	-	0.03
2398	668839.0	4280585.0	Roadway/Open Space	-	-	0.03
2399	668849.0	4280585.0	Roadway/Open Space	-	-	0.03
2400	668859.0	4280585.0	Roadway/Open Space	-	-	0.03
2401	668869.0	4280585.0	Roadway/Open Space	-	-	0.03
2402	668879.0	4280585.0	Roadway/Open Space	-	-	0.03
2403	668889.0	4280585.0	Roadway/Open Space	-	-	0.03
2404	668899.0	4280585.0	Roadway/Open Space	-	-	0.03
2405	668909.0	4280585.0	Roadway/Open Space	-	-	0.03
2406	668919.0	4280585.0	Roadway/Open Space	-	-	0.03
2407	668929.0	4280585.0	Roadway/Open Space	-	-	0.03
2408	668939.0	4280585.0	Roadway/Open Space	-	-	0.03
2409	668949.0	4280585.0	Roadway/Open Space	-	-	0.03
2410	668959.0	4280585.0	Roadway/Open Space	-	-	0.03
2411	668969.0	4280585.0	Roadway/Open Space	-	-	0.03
2412	668979.0	4280585.0	Roadway/Open Space	-	-	0.03
2413	668989.0	4280585.0	Roadway/Open Space	-	-	0.03
2414	668999.0	4280585.0	Roadway/Open Space	-	-	0.03
2415	669009.0	4280585.0	Roadway/Open Space	-	-	0.03
2416	669019.0	4280585.0	Roadway/Open Space	-	-	0.03
2417	669029.0	4280585.0	Roadway/Open Space	-	-	0.03
2418	669039.0	4280585.0	Roadway/Open Space	-	-	0.03
2419	669049.0	4280585.0	Roadway/Open Space	-	-	0.03
2420	669059.0	4280585.0	Roadway/Open Space	-	-	0.03
2421	669069.0	4280585.0	Roadway/Open Space	-	-	0.03
2422	669079.0	4280585.0	Roadway/Open Space	-	-	0.03
2423	669089.0	4280585.0	Roadway/Open Space	-	-	0.03
2424	669099.0	4280585.0	Roadway/Open Space	-	-	0.03
2425	669109.0	4280585.0	Roadway/Open Space	-	-	0.03
2426	669119.0	4280585.0	Roadway/Open Space	-	-	0.03
2427	669129.0	4280585.0	Roadway/Open Space	-	-	0.03
2428	669139.0	4280585.0	Roadway/Open Space	-	-	0.03
2429	669149.0	4280585.0	Roadway/Open Space	-	-	0.03
2430	669159.0	4280585.0	Roadway/Open Space	-	-	0.03
2431	669169.0	4280585.0	Roadway/Open Space	-	-	0.03
2432	669179.0	4280585.0	Roadway/Open Space	-	-	0.03
2433	669189.0	4280585.0	Roadway/Open Space	-	-	0.03
2434	669199.0	4280585.0	Roadway/Open Space	-	-	0.03
2435	669209.0	4280585.0	Roadway/Open Space	-	-	0.03
2436	669219.0	4280585.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2437	669229.0	4280585.0	Roadway/Open Space	-	-	0.03
2438	669239.0	4280585.0	Roadway/Open Space	-	-	0.03
2439	669249.0	4280585.0	Roadway/Open Space	-	-	0.03
2440	669259.0	4280585.0	Roadway/Open Space	-	-	0.03
2441	669269.0	4280585.0	Roadway/Open Space	-	-	0.03
2442	669279.0	4280585.0	Roadway/Open Space	-	-	0.03
2443	669289.0	4280585.0	Roadway/Open Space	-	-	0.04
2444	669299.0	4280585.0	Roadway/Open Space	-	-	0.04
2445	669309.0	4280585.0	Roadway/Open Space	-	-	0.04
2446	669319.0	4280585.0	Roadway/Open Space	-	-	0.04
2447	669329.0	4280585.0	Roadway/Open Space	-	-	0.04
2448	669339.0	4280585.0	Roadway/Open Space	-	-	0.03
2449	669349.0	4280585.0	Roadway/Open Space	-	-	0.03
2450	669359.0	4280585.0	Roadway/Open Space	-	-	0.03
2451	669369.0	4280585.0	Roadway/Open Space	-	-	0.02
2452	669379.0	4280585.0	Roadway/Open Space	-	-	0.02
2453	669389.0	4280585.0	Roadway/Open Space	-	-	0.02
2454	669399.0	4280585.0	Roadway/Open Space	-	-	0.02
2455	669409.0	4280585.0	Roadway/Open Space	-	-	0.02
2456	669419.0	4280585.0	Roadway/Open Space	-	-	0.02
2457	669429.0	4280585.0	Roadway/Open Space	-	-	0.02
2458	669439.0	4280585.0	Roadway/Open Space	-	-	0.02
2459	669449.0	4280585.0	Roadway/Open Space	-	-	0.02
2460	669459.0	4280585.0	Roadway/Open Space	-	-	0.02
2461	669469.0	4280585.0	Roadway/Open Space	-	-	0.02
2462	669479.0	4280585.0	Roadway/Open Space	-	-	0.02
2463	669489.0	4280585.0	Roadway/Open Space	-	-	0.02
2464	669499.0	4280585.0	Roadway/Open Space	-	-	0.02
2465	669509.0	4280585.0	Roadway/Open Space	-	-	0.02
2466	669519.0	4280585.0	Roadway/Open Space	-	-	0.02
2467	669529.0	4280585.0	Roadway/Open Space	-	-	0.02
2468	669539.0	4280585.0	Roadway/Open Space	-	-	0.02
2469	669549.0	4280585.0	Roadway/Open Space	-	-	0.02
2470	669559.0	4280585.0	Roadway/Open Space	-	-	0.02
2471	669569.0	4280585.0	Roadway/Open Space	-	-	0.02
2472	669579.0	4280585.0	Roadway/Open Space	-	-	0.02
2473	668609.0	4280595.0	Roadway/Open Space	-	-	0.02
2474	668619.0	4280595.0	Roadway/Open Space	-	-	0.02
2475	668629.0	4280595.0	Roadway/Open Space	-	-	0.02
2476	668639.0	4280595.0	Roadway/Open Space	-	-	0.02
2477	668649.0	4280595.0	Roadway/Open Space	-	-	0.02
2478	668659.0	4280595.0	Roadway/Open Space	-	-	0.02
2479	668669.0	4280595.0	Roadway/Open Space	-	-	0.02
2480	668679.0	4280595.0	Roadway/Open Space	-	-	0.02
2481	668689.0	4280595.0	Roadway/Open Space	-	-	0.02
2482	668699.0	4280595.0	Roadway/Open Space	-	-	0.02
2483	668709.0	4280595.0	Roadway/Open Space	-	-	0.02
2484	668719.0	4280595.0	Roadway/Open Space	-	-	0.02
2485	668729.0	4280595.0	Roadway/Open Space	-	-	0.02
2486	668739.0	4280595.0	Roadway/Open Space	-	-	0.03
2487	668749.0	4280595.0	Roadway/Open Space	-	-	0.03
2488	668759.0	4280595.0	Roadway/Open Space	-	-	0.03
2489	668769.0	4280595.0	Roadway/Open Space	-	-	0.03
2490	668779.0	4280595.0	Roadway/Open Space	-	-	0.03
2491	668789.0	4280595.0	Roadway/Open Space	-	-	0.03
2492	668799.0	4280595.0	Roadway/Open Space	-	-	0.03
2493	668809.0	4280595.0	Roadway/Open Space	-	-	0.03
2494	668819.0	4280595.0	Roadway/Open Space	-	-	0.03
2495	668829.0	4280595.0	Roadway/Open Space	-	-	0.03
2496	668839.0	4280595.0	Roadway/Open Space	-	-	0.03
2497	668849.0	4280595.0	Roadway/Open Space	-	-	0.03
2498	668859.0	4280595.0	Roadway/Open Space	-	-	0.03
2499	668869.0	4280595.0	Roadway/Open Space	-	-	0.03
2500	668879.0	4280595.0	Roadway/Open Space	-	-	0.03
2501	668889.0	4280595.0	Roadway/Open Space	-	-	0.03
2502	668899.0	4280595.0	Roadway/Open Space	-	-	0.03
2503	668909.0	4280595.0	Roadway/Open Space	-	-	0.03
2504	668919.0	4280595.0	Roadway/Open Space	-	-	0.03
2505	668929.0	4280595.0	Roadway/Open Space	-	-	0.03
2506	668939.0	4280595.0	Roadway/Open Space	-	-	0.03
2507	668949.0	4280595.0	Roadway/Open Space	-	-	0.03
2508	668959.0	4280595.0	Roadway/Open Space	-	-	0.03
2509	668969.0	4280595.0	Roadway/Open Space	-	-	0.03
2510	668979.0	4280595.0	Roadway/Open Space	-	-	0.03
2511	668989.0	4280595.0	Roadway/Open Space	-	-	0.03
2512	668999.0	4280595.0	Roadway/Open Space	-	-	0.03
2513	669009.0	4280595.0	Roadway/Open Space	-	-	0.03
2514	669019.0	4280595.0	Roadway/Open Space	-	-	0.03
2515	669029.0	4280595.0	Roadway/Open Space	-	-	0.03
2516	669039.0	4280595.0	Roadway/Open Space	-	-	0.03
2517	669049.0	4280595.0	Roadway/Open Space	-	-	0.03
2518	669059.0	4280595.0	Roadway/Open Space	-	-	0.03
2519	669069.0	4280595.0	Roadway/Open Space	-	-	0.03
2520	669079.0	4280595.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2521	669089.0	4280595.0	Roadway/Open Space	-	-	0.03
2522	669099.0	4280595.0	Roadway/Open Space	-	-	0.03
2523	669109.0	4280595.0	Roadway/Open Space	-	-	0.03
2524	669119.0	4280595.0	Roadway/Open Space	-	-	0.03
2525	669129.0	4280595.0	Roadway/Open Space	-	-	0.03
2526	669139.0	4280595.0	Roadway/Open Space	-	-	0.03
2527	669149.0	4280595.0	Roadway/Open Space	-	-	0.03
2528	669159.0	4280595.0	Roadway/Open Space	-	-	0.03
2529	669169.0	4280595.0	Roadway/Open Space	-	-	0.03
2530	669179.0	4280595.0	Roadway/Open Space	-	-	0.03
2531	669189.0	4280595.0	Roadway/Open Space	-	-	0.03
2532	669199.0	4280595.0	Roadway/Open Space	-	-	0.03
2533	669209.0	4280595.0	Roadway/Open Space	-	-	0.03
2534	669219.0	4280595.0	Roadway/Open Space	-	-	0.03
2535	669229.0	4280595.0	Roadway/Open Space	-	-	0.03
2536	669239.0	4280595.0	Roadway/Open Space	-	-	0.03
2537	669249.0	4280595.0	Roadway/Open Space	-	-	0.03
2538	669259.0	4280595.0	Roadway/Open Space	-	-	0.03
2539	669269.0	4280595.0	Roadway/Open Space	-	-	0.03
2540	669279.0	4280595.0	Roadway/Open Space	-	-	0.04
2541	669289.0	4280595.0	Roadway/Open Space	-	-	0.04
2542	669299.0	4280595.0	Roadway/Open Space	-	-	0.04
2543	669309.0	4280595.0	Roadway/Open Space	-	-	0.04
2544	669319.0	4280595.0	Roadway/Open Space	-	-	0.04
2545	669329.0	4280595.0	Roadway/Open Space	-	-	0.04
2546	669339.0	4280595.0	Roadway/Open Space	-	-	0.03
2547	669349.0	4280595.0	Roadway/Open Space	-	-	0.03
2548	669359.0	4280595.0	Roadway/Open Space	-	-	0.03
2549	669369.0	4280595.0	Roadway/Open Space	-	-	0.03
2550	669379.0	4280595.0	Roadway/Open Space	-	-	0.02
2551	669389.0	4280595.0	Roadway/Open Space	-	-	0.02
2552	669399.0	4280595.0	Roadway/Open Space	-	-	0.02
2553	669409.0	4280595.0	Roadway/Open Space	-	-	0.02
2554	669419.0	4280595.0	Roadway/Open Space	-	-	0.02
2555	669429.0	4280595.0	Roadway/Open Space	-	-	0.02
2556	669439.0	4280595.0	Roadway/Open Space	-	-	0.02
2557	669449.0	4280595.0	Roadway/Open Space	-	-	0.02
2558	669459.0	4280595.0	Roadway/Open Space	-	-	0.02
2559	669469.0	4280595.0	Roadway/Open Space	-	-	0.02
2560	669479.0	4280595.0	Roadway/Open Space	-	-	0.02
2561	669489.0	4280595.0	Roadway/Open Space	-	-	0.02
2562	669499.0	4280595.0	Roadway/Open Space	-	-	0.02
2563	669509.0	4280595.0	Roadway/Open Space	-	-	0.02
2564	669519.0	4280595.0	Roadway/Open Space	-	-	0.02
2565	669529.0	4280595.0	Roadway/Open Space	-	-	0.02
2566	669539.0	4280595.0	Roadway/Open Space	-	-	0.02
2567	669549.0	4280595.0	Roadway/Open Space	-	-	0.02
2568	669559.0	4280595.0	Roadway/Open Space	-	-	0.02
2569	669569.0	4280595.0	Roadway/Open Space	-	-	0.02
2570	669579.0	4280595.0	Roadway/Open Space	-	-	0.02
2571	668609.0	4280605.0	Roadway/Open Space	-	-	0.02
2572	668619.0	4280605.0	Roadway/Open Space	-	-	0.02
2573	668629.0	4280605.0	Roadway/Open Space	-	-	0.02
2574	668639.0	4280605.0	Roadway/Open Space	-	-	0.02
2575	668649.0	4280605.0	Roadway/Open Space	-	-	0.02
2576	668659.0	4280605.0	Roadway/Open Space	-	-	0.02
2577	668669.0	4280605.0	Roadway/Open Space	-	-	0.02
2578	668679.0	4280605.0	Roadway/Open Space	-	-	0.02
2579	668689.0	4280605.0	Roadway/Open Space	-	-	0.02
2580	668699.0	4280605.0	Roadway/Open Space	-	-	0.02
2581	668709.0	4280605.0	Roadway/Open Space	-	-	0.02
2582	668719.0	4280605.0	Roadway/Open Space	-	-	0.02
2583	668729.0	4280605.0	Roadway/Open Space	-	-	0.02
2584	668739.0	4280605.0	Roadway/Open Space	-	-	0.03
2585	668749.0	4280605.0	Roadway/Open Space	-	-	0.03
2586	668759.0	4280605.0	Roadway/Open Space	-	-	0.03
2587	668769.0	4280605.0	Roadway/Open Space	-	-	0.03
2588	668779.0	4280605.0	Roadway/Open Space	-	-	0.03
2589	668789.0	4280605.0	Roadway/Open Space	-	-	0.03
2590	668799.0	4280605.0	Roadway/Open Space	-	-	0.03
2591	668809.0	4280605.0	Roadway/Open Space	-	-	0.03
2592	668819.0	4280605.0	Roadway/Open Space	-	-	0.03
2593	668829.0	4280605.0	Roadway/Open Space	-	-	0.03
2594	668839.0	4280605.0	Roadway/Open Space	-	-	0.03
2595	668849.0	4280605.0	Roadway/Open Space	-	-	0.03
2596	668859.0	4280605.0	Roadway/Open Space	-	-	0.03
2597	668869.0	4280605.0	Roadway/Open Space	-	-	0.03
2598	668879.0	4280605.0	Roadway/Open Space	-	-	0.03
2599	668889.0	4280605.0	Roadway/Open Space	-	-	0.03
2600	668899.0	4280605.0	Roadway/Open Space	-	-	0.03
2601	668909.0	4280605.0	Roadway/Open Space	-	-	0.03
2602	668919.0	4280605.0	Roadway/Open Space	-	-	0.03
2603	668929.0	4280605.0	Roadway/Open Space	-	-	0.03
2604	668939.0	4280605.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2605	668949.0	4280605.0	Roadway/Open Space	-	-	0.03
2606	668959.0	4280605.0	Roadway/Open Space	-	-	0.03
2607	668969.0	4280605.0	Roadway/Open Space	-	-	0.03
2608	668979.0	4280605.0	Roadway/Open Space	-	-	0.03
2609	668989.0	4280605.0	Roadway/Open Space	-	-	0.03
2610	668999.0	4280605.0	Roadway/Open Space	-	-	0.03
2611	669009.0	4280605.0	Roadway/Open Space	-	-	0.03
2612	669019.0	4280605.0	Roadway/Open Space	-	-	0.03
2613	669029.0	4280605.0	Roadway/Open Space	-	-	0.03
2614	669039.0	4280605.0	Roadway/Open Space	-	-	0.03
2615	669049.0	4280605.0	Roadway/Open Space	-	-	0.03
2616	669059.0	4280605.0	Roadway/Open Space	-	-	0.03
2617	669069.0	4280605.0	Roadway/Open Space	-	-	0.03
2618	669079.0	4280605.0	Roadway/Open Space	-	-	0.03
2619	669089.0	4280605.0	Roadway/Open Space	-	-	0.03
2620	669099.0	4280605.0	Roadway/Open Space	-	-	0.03
2621	669109.0	4280605.0	Roadway/Open Space	-	-	0.03
2622	669119.0	4280605.0	Roadway/Open Space	-	-	0.03
2623	669129.0	4280605.0	Roadway/Open Space	-	-	0.03
2624	669139.0	4280605.0	Roadway/Open Space	-	-	0.03
2625	669149.0	4280605.0	Roadway/Open Space	-	-	0.03
2626	669159.0	4280605.0	Roadway/Open Space	-	-	0.03
2627	669169.0	4280605.0	Roadway/Open Space	-	-	0.03
2628	669179.0	4280605.0	Roadway/Open Space	-	-	0.03
2629	669189.0	4280605.0	Roadway/Open Space	-	-	0.03
2630	669199.0	4280605.0	Roadway/Open Space	-	-	0.03
2631	669209.0	4280605.0	Roadway/Open Space	-	-	0.03
2632	669219.0	4280605.0	Roadway/Open Space	-	-	0.03
2633	669229.0	4280605.0	Roadway/Open Space	-	-	0.03
2634	669239.0	4280605.0	Roadway/Open Space	-	-	0.03
2635	669249.0	4280605.0	Roadway/Open Space	-	-	0.03
2636	669259.0	4280605.0	Roadway/Open Space	-	-	0.03
2637	669269.0	4280605.0	Roadway/Open Space	-	-	0.03
2638	669279.0	4280605.0	Roadway/Open Space	-	-	0.04
2639	669289.0	4280605.0	Roadway/Open Space	-	-	0.04
2640	669299.0	4280605.0	Roadway/Open Space	-	-	0.04
2641	669309.0	4280605.0	Roadway/Open Space	-	-	0.04
2642	669319.0	4280605.0	Roadway/Open Space	-	-	0.04
2643	669329.0	4280605.0	Roadway/Open Space	-	-	0.04
2644	669339.0	4280605.0	Roadway/Open Space	-	-	0.03
2645	669349.0	4280605.0	Roadway/Open Space	-	-	0.03
2646	669359.0	4280605.0	Roadway/Open Space	-	-	0.03
2647	669369.0	4280605.0	Roadway/Open Space	-	-	0.03
2648	669379.0	4280605.0	Roadway/Open Space	-	-	0.03
2649	669389.0	4280605.0	Roadway/Open Space	-	-	0.02
2650	669399.0	4280605.0	Roadway/Open Space	-	-	0.02
2651	669409.0	4280605.0	Roadway/Open Space	-	-	0.02
2652	669419.0	4280605.0	Roadway/Open Space	-	-	0.02
2653	669429.0	4280605.0	Roadway/Open Space	-	-	0.02
2654	669439.0	4280605.0	Roadway/Open Space	-	-	0.02
2655	669449.0	4280605.0	Roadway/Open Space	-	-	0.02
2656	669459.0	4280605.0	Roadway/Open Space	-	-	0.02
2657	669469.0	4280605.0	Roadway/Open Space	-	-	0.02
2658	669479.0	4280605.0	Roadway/Open Space	-	-	0.02
2659	669489.0	4280605.0	Roadway/Open Space	-	-	0.02
2660	669499.0	4280605.0	Roadway/Open Space	-	-	0.02
2661	669509.0	4280605.0	Roadway/Open Space	-	-	0.02
2662	669519.0	4280605.0	Roadway/Open Space	-	-	0.02
2663	669529.0	4280605.0	Roadway/Open Space	-	-	0.02
2664	669539.0	4280605.0	Roadway/Open Space	-	-	0.02
2665	669549.0	4280605.0	Roadway/Open Space	-	-	0.02
2666	669559.0	4280605.0	Roadway/Open Space	-	-	0.02
2667	669569.0	4280605.0	Roadway/Open Space	-	-	0.02
2668	669579.0	4280605.0	Roadway/Open Space	-	-	0.02
2669	669589.0	4280605.0	Roadway/Open Space	-	-	0.02
2670	668609.0	4280615.0	Roadway/Open Space	-	-	0.03
2671	668619.0	4280615.0	Roadway/Open Space	-	-	0.02
2672	668629.0	4280615.0	Roadway/Open Space	-	-	0.02
2673	668639.0	4280615.0	Roadway/Open Space	-	-	0.02
2674	668649.0	4280615.0	Roadway/Open Space	-	-	0.02
2675	668659.0	4280615.0	Roadway/Open Space	-	-	0.02
2676	668669.0	4280615.0	Roadway/Open Space	-	-	0.02
2677	668679.0	4280615.0	Roadway/Open Space	-	-	0.02
2678	668689.0	4280615.0	Roadway/Open Space	-	-	0.02
2679	668699.0	4280615.0	Roadway/Open Space	-	-	0.02
2680	668709.0	4280615.0	Roadway/Open Space	-	-	0.02
2681	668719.0	4280615.0	Roadway/Open Space	-	-	0.03
2682	668729.0	4280615.0	Roadway/Open Space	-	-	0.03
2683	668739.0	4280615.0	Roadway/Open Space	-	-	0.03
2684	668749.0	4280615.0	Roadway/Open Space	-	-	0.03
2685	668759.0	4280615.0	Roadway/Open Space	-	-	0.03
2686	668769.0	4280615.0	Roadway/Open Space	-	-	0.03
2687	668779.0	4280615.0	Roadway/Open Space	-	-	0.03
2688	668789.0	4280615.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2689	668799.0	4280615.0	Roadway/Open Space	-	-	0.03
2690	668809.0	4280615.0	Roadway/Open Space	-	-	0.03
2691	668819.0	4280615.0	Roadway/Open Space	-	-	0.03
2692	668829.0	4280615.0	Roadway/Open Space	-	-	0.03
2693	668839.0	4280615.0	Roadway/Open Space	-	-	0.03
2694	668849.0	4280615.0	Roadway/Open Space	-	-	0.03
2695	668859.0	4280615.0	Roadway/Open Space	-	-	0.03
2696	668869.0	4280615.0	Roadway/Open Space	-	-	0.03
2697	668879.0	4280615.0	Roadway/Open Space	-	-	0.03
2698	668889.0	4280615.0	Roadway/Open Space	-	-	0.03
2699	668899.0	4280615.0	Roadway/Open Space	-	-	0.03
2700	668909.0	4280615.0	Roadway/Open Space	-	-	0.03
2701	668919.0	4280615.0	Roadway/Open Space	-	-	0.03
2702	668929.0	4280615.0	Roadway/Open Space	-	-	0.03
2703	668939.0	4280615.0	Roadway/Open Space	-	-	0.03
2704	668949.0	4280615.0	Roadway/Open Space	-	-	0.03
2705	668959.0	4280615.0	Roadway/Open Space	-	-	0.03
2706	668969.0	4280615.0	Roadway/Open Space	-	-	0.03
2707	668979.0	4280615.0	Roadway/Open Space	-	-	0.03
2708	668989.0	4280615.0	Roadway/Open Space	-	-	0.03
2709	668999.0	4280615.0	Roadway/Open Space	-	-	0.03
2710	669009.0	4280615.0	Roadway/Open Space	-	-	0.03
2711	669019.0	4280615.0	Roadway/Open Space	-	-	0.03
2712	669029.0	4280615.0	Roadway/Open Space	-	-	0.03
2713	669039.0	4280615.0	Roadway/Open Space	-	-	0.03
2714	669049.0	4280615.0	Roadway/Open Space	-	-	0.03
2715	669059.0	4280615.0	Roadway/Open Space	-	-	0.03
2716	669069.0	4280615.0	Roadway/Open Space	-	-	0.03
2717	669079.0	4280615.0	Roadway/Open Space	-	-	0.03
2718	669089.0	4280615.0	Roadway/Open Space	-	-	0.03
2719	669099.0	4280615.0	Roadway/Open Space	-	-	0.03
2720	669109.0	4280615.0	Roadway/Open Space	-	-	0.03
2721	669119.0	4280615.0	Roadway/Open Space	-	-	0.03
2722	669129.0	4280615.0	Roadway/Open Space	-	-	0.03
2723	669139.0	4280615.0	Roadway/Open Space	-	-	0.03
2724	669149.0	4280615.0	Roadway/Open Space	-	-	0.03
2725	669159.0	4280615.0	Roadway/Open Space	-	-	0.03
2726	669169.0	4280615.0	Roadway/Open Space	-	-	0.03
2727	669179.0	4280615.0	Roadway/Open Space	-	-	0.03
2728	669189.0	4280615.0	Roadway/Open Space	-	-	0.03
2729	669199.0	4280615.0	Roadway/Open Space	-	-	0.03
2730	669209.0	4280615.0	Roadway/Open Space	-	-	0.03
2731	669219.0	4280615.0	Roadway/Open Space	-	-	0.03
2732	669229.0	4280615.0	Roadway/Open Space	-	-	0.03
2733	669239.0	4280615.0	Roadway/Open Space	-	-	0.03
2734	669249.0	4280615.0	Roadway/Open Space	-	-	0.03
2735	669259.0	4280615.0	Roadway/Open Space	-	-	0.03
2736	669269.0	4280615.0	Roadway/Open Space	-	-	0.03
2737	669279.0	4280615.0	Roadway/Open Space	-	-	0.03
2738	669289.0	4280615.0	Roadway/Open Space	-	-	0.03
2739	669299.0	4280615.0	Roadway/Open Space	-	-	0.03
2740	669309.0	4280615.0	Roadway/Open Space	-	-	0.04
2741	669319.0	4280615.0	Roadway/Open Space	-	-	0.04
2742	669329.0	4280615.0	Roadway/Open Space	-	-	0.04
2743	669339.0	4280615.0	Roadway/Open Space	-	-	0.03
2744	669349.0	4280615.0	Roadway/Open Space	-	-	0.03
2745	669359.0	4280615.0	Roadway/Open Space	-	-	0.03
2746	669369.0	4280615.0	Roadway/Open Space	-	-	0.03
2747	669379.0	4280615.0	Roadway/Open Space	-	-	0.03
2748	669389.0	4280615.0	Roadway/Open Space	-	-	0.02
2749	669399.0	4280615.0	Roadway/Open Space	-	-	0.02
2750	669409.0	4280615.0	Roadway/Open Space	-	-	0.02
2751	669419.0	4280615.0	Roadway/Open Space	-	-	0.02
2752	669429.0	4280615.0	Roadway/Open Space	-	-	0.02
2753	669439.0	4280615.0	Roadway/Open Space	-	-	0.02
2754	669449.0	4280615.0	Roadway/Open Space	-	-	0.02
2755	669459.0	4280615.0	Roadway/Open Space	-	-	0.02
2756	669469.0	4280615.0	Roadway/Open Space	-	-	0.02
2757	669479.0	4280615.0	Roadway/Open Space	-	-	0.02
2758	669489.0	4280615.0	Roadway/Open Space	-	-	0.02
2759	669499.0	4280615.0	Roadway/Open Space	-	-	0.02
2760	669509.0	4280615.0	Roadway/Open Space	-	-	0.02
2761	669519.0	4280615.0	Roadway/Open Space	-	-	0.02
2762	669529.0	4280615.0	Roadway/Open Space	-	-	0.02
2763	669539.0	4280615.0	Roadway/Open Space	-	-	0.02
2764	669549.0	4280615.0	Roadway/Open Space	-	-	0.02
2765	669559.0	4280615.0	Roadway/Open Space	-	-	0.02
2766	669569.0	4280615.0	Roadway/Open Space	-	-	0.02
2767	669579.0	4280615.0	Roadway/Open Space	-	-	0.02
2768	669589.0	4280615.0	Roadway/Open Space	-	-	0.02
2769	668599.0	4280625.0	Roadway/Open Space	-	-	0.03
2770	668609.0	4280625.0	Roadway/Open Space	-	-	0.03
2771	668619.0	4280625.0	Roadway/Open Space	-	-	0.02
2772	668629.0	4280625.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2773	668639.0	4280625.0	Roadway/Open Space	-	-	0.02
2774	668649.0	4280625.0	Roadway/Open Space	-	-	0.02
2775	668659.0	4280625.0	Roadway/Open Space	-	-	0.02
2776	668669.0	4280625.0	Roadway/Open Space	-	-	0.02
2777	668679.0	4280625.0	Roadway/Open Space	-	-	0.02
2778	668689.0	4280625.0	Roadway/Open Space	-	-	0.02
2779	668699.0	4280625.0	Roadway/Open Space	-	-	0.02
2780	668709.0	4280625.0	Roadway/Open Space	-	-	0.03
2781	668719.0	4280625.0	Roadway/Open Space	-	-	0.03
2782	668729.0	4280625.0	Roadway/Open Space	-	-	0.03
2783	668739.0	4280625.0	Roadway/Open Space	-	-	0.03
2784	668749.0	4280625.0	Roadway/Open Space	-	-	0.03
2785	668759.0	4280625.0	Roadway/Open Space	-	-	0.03
2786	668769.0	4280625.0	Roadway/Open Space	-	-	0.03
2787	668779.0	4280625.0	Roadway/Open Space	-	-	0.03
2788	668789.0	4280625.0	Roadway/Open Space	-	-	0.03
2789	668799.0	4280625.0	Roadway/Open Space	-	-	0.03
2790	668809.0	4280625.0	Roadway/Open Space	-	-	0.03
2791	668819.0	4280625.0	Roadway/Open Space	-	-	0.03
2792	668829.0	4280625.0	Roadway/Open Space	-	-	0.03
2793	668839.0	4280625.0	Roadway/Open Space	-	-	0.03
2794	668849.0	4280625.0	Roadway/Open Space	-	-	0.03
2795	668859.0	4280625.0	Roadway/Open Space	-	-	0.03
2796	668869.0	4280625.0	Roadway/Open Space	-	-	0.03
2797	668879.0	4280625.0	Roadway/Open Space	-	-	0.03
2798	668889.0	4280625.0	Roadway/Open Space	-	-	0.03
2799	668899.0	4280625.0	Roadway/Open Space	-	-	0.03
2800	668909.0	4280625.0	Roadway/Open Space	-	-	0.03
2801	668919.0	4280625.0	Roadway/Open Space	-	-	0.03
2802	668929.0	4280625.0	Roadway/Open Space	-	-	0.03
2803	668939.0	4280625.0	Roadway/Open Space	-	-	0.03
2804	668949.0	4280625.0	Roadway/Open Space	-	-	0.03
2805	668959.0	4280625.0	Roadway/Open Space	-	-	0.03
2806	668969.0	4280625.0	Roadway/Open Space	-	-	0.03
2807	668979.0	4280625.0	Roadway/Open Space	-	-	0.03
2808	668989.0	4280625.0	Roadway/Open Space	-	-	0.03
2809	668999.0	4280625.0	Roadway/Open Space	-	-	0.03
2810	669009.0	4280625.0	Roadway/Open Space	-	-	0.03
2811	669019.0	4280625.0	Roadway/Open Space	-	-	0.03
2812	669029.0	4280625.0	Roadway/Open Space	-	-	0.03
2813	669039.0	4280625.0	Roadway/Open Space	-	-	0.03
2815	669059.0	4280625.0	Roadway/Open Space	-	-	0.03
2816	669069.0	4280625.0	Roadway/Open Space	-	-	0.03
2817	669079.0	4280625.0	Roadway/Open Space	-	-	0.03
2818	669089.0	4280625.0	Roadway/Open Space	-	-	0.03
2819	669099.0	4280625.0	Roadway/Open Space	-	-	0.03
2820	669109.0	4280625.0	Roadway/Open Space	-	-	0.03
2821	669119.0	4280625.0	Roadway/Open Space	-	-	0.03
2822	669129.0	4280625.0	Roadway/Open Space	-	-	0.03
2823	669139.0	4280625.0	Roadway/Open Space	-	-	0.03
2824	669149.0	4280625.0	Roadway/Open Space	-	-	0.03
2825	669159.0	4280625.0	Roadway/Open Space	-	-	0.03
2826	669169.0	4280625.0	Roadway/Open Space	-	-	0.03
2827	669179.0	4280625.0	Roadway/Open Space	-	-	0.03
2828	669189.0	4280625.0	Roadway/Open Space	-	-	0.03
2829	669199.0	4280625.0	Roadway/Open Space	-	-	0.03
2830	669209.0	4280625.0	Roadway/Open Space	-	-	0.04
2831	669219.0	4280625.0	Roadway/Open Space	-	-	0.03
2832	669229.0	4280625.0	Roadway/Open Space	-	-	0.04
2833	669239.0	4280625.0	Roadway/Open Space	-	-	0.03
2834	669249.0	4280625.0	Roadway/Open Space	-	-	0.03
2835	669259.0	4280625.0	Roadway/Open Space	-	-	0.03
2836	669269.0	4280625.0	Roadway/Open Space	-	-	0.03
2837	669279.0	4280625.0	Roadway/Open Space	-	-	0.03
2838	669289.0	4280625.0	Roadway/Open Space	-	-	0.03
2839	669299.0	4280625.0	Roadway/Open Space	-	-	0.03
2840	669309.0	4280625.0	Roadway/Open Space	-	-	0.03
2841	669319.0	4280625.0	Roadway/Open Space	-	-	0.04
2842	669329.0	4280625.0	Roadway/Open Space	-	-	0.03
2843	669339.0	4280625.0	Roadway/Open Space	-	-	0.03
2844	669349.0	4280625.0	Roadway/Open Space	-	-	0.03
2845	669359.0	4280625.0	Roadway/Open Space	-	-	0.03
2846	669369.0	4280625.0	Roadway/Open Space	-	-	0.03
2847	669379.0	4280625.0	Roadway/Open Space	-	-	0.03
2848	669389.0	4280625.0	Roadway/Open Space	-	-	0.02
2849	669399.0	4280625.0	Roadway/Open Space	-	-	0.02
2850	669409.0	4280625.0	Roadway/Open Space	-	-	0.02
2851	669419.0	4280625.0	Roadway/Open Space	-	-	0.02
2852	669429.0	4280625.0	Roadway/Open Space	-	-	0.02
2853	669439.0	4280625.0	Roadway/Open Space	-	-	0.02
2854	669449.0	4280625.0	Roadway/Open Space	-	-	0.02
2855	669459.0	4280625.0	Roadway/Open Space	-	-	0.02
2856	669469.0	4280625.0	Roadway/Open Space	-	-	0.02
2857	669479.0	4280625.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2858	669489.0	4280625.0	Roadway/Open Space	-	-	0.02
2859	669499.0	4280625.0	Roadway/Open Space	-	-	0.02
2860	669509.0	4280625.0	Roadway/Open Space	-	-	0.02
2861	669519.0	4280625.0	Roadway/Open Space	-	-	0.02
2862	669529.0	4280625.0	Roadway/Open Space	-	-	0.02
2863	669539.0	4280625.0	Roadway/Open Space	-	-	0.02
2864	669549.0	4280625.0	Roadway/Open Space	-	-	0.02
2865	669559.0	4280625.0	Roadway/Open Space	-	-	0.02
2866	669569.0	4280625.0	Roadway/Open Space	-	-	0.02
2867	669579.0	4280625.0	Roadway/Open Space	-	-	0.02
2868	669589.0	4280625.0	Roadway/Open Space	-	-	0.02
2869	669599.0	4280625.0	Roadway/Open Space	-	-	0.02
2870	668599.0	4280635.0	Roadway/Open Space	-	-	0.03
2871	668609.0	4280635.0	Roadway/Open Space	-	-	0.03
2872	668619.0	4280635.0	Roadway/Open Space	-	-	0.02
2873	668629.0	4280635.0	Roadway/Open Space	-	-	0.02
2874	668639.0	4280635.0	Roadway/Open Space	-	-	0.02
2875	668649.0	4280635.0	Roadway/Open Space	-	-	0.02
2876	668659.0	4280635.0	Roadway/Open Space	-	-	0.02
2877	668669.0	4280635.0	Roadway/Open Space	-	-	0.02
2878	668679.0	4280635.0	Roadway/Open Space	-	-	0.02
2879	668689.0	4280635.0	Roadway/Open Space	-	-	0.02
2880	668699.0	4280635.0	Roadway/Open Space	-	-	0.02
2881	668709.0	4280635.0	Roadway/Open Space	-	-	0.03
2882	668719.0	4280635.0	Roadway/Open Space	-	-	0.03
2883	668729.0	4280635.0	Roadway/Open Space	-	-	0.03
2884	668739.0	4280635.0	Roadway/Open Space	-	-	0.03
2885	668749.0	4280635.0	Roadway/Open Space	-	-	0.03
2886	668759.0	4280635.0	Roadway/Open Space	-	-	0.03
2887	668769.0	4280635.0	Roadway/Open Space	-	-	0.03
2888	668779.0	4280635.0	Roadway/Open Space	-	-	0.03
2889	668789.0	4280635.0	Roadway/Open Space	-	-	0.03
2890	668799.0	4280635.0	Roadway/Open Space	-	-	0.03
2891	668809.0	4280635.0	Roadway/Open Space	-	-	0.03
2892	668819.0	4280635.0	Roadway/Open Space	-	-	0.03
2893	668829.0	4280635.0	Roadway/Open Space	-	-	0.03
2894	668839.0	4280635.0	Roadway/Open Space	-	-	0.03
2895	668849.0	4280635.0	Roadway/Open Space	-	-	0.03
2896	668859.0	4280635.0	Roadway/Open Space	-	-	0.03
2897	668869.0	4280635.0	Roadway/Open Space	-	-	0.03
2898	668879.0	4280635.0	Roadway/Open Space	-	-	0.03
2899	668889.0	4280635.0	Roadway/Open Space	-	-	0.03
2900	668899.0	4280635.0	Roadway/Open Space	-	-	0.03
2901	668909.0	4280635.0	Roadway/Open Space	-	-	0.03
2902	668919.0	4280635.0	Roadway/Open Space	-	-	0.03
2903	668929.0	4280635.0	Roadway/Open Space	-	-	0.03
2904	668939.0	4280635.0	Roadway/Open Space	-	-	0.03
2905	668949.0	4280635.0	Roadway/Open Space	-	-	0.03
2906	668959.0	4280635.0	Roadway/Open Space	-	-	0.03
2907	668969.0	4280635.0	Roadway/Open Space	-	-	0.03
2908	668979.0	4280635.0	Roadway/Open Space	-	-	0.03
2909	668989.0	4280635.0	Roadway/Open Space	-	-	0.03
2910	668999.0	4280635.0	Roadway/Open Space	-	-	0.03
2911	669009.0	4280635.0	Roadway/Open Space	-	-	0.03
2912	669019.0	4280635.0	Roadway/Open Space	-	-	0.03
2913	669029.0	4280635.0	Roadway/Open Space	-	-	0.03
2917	669069.0	4280635.0	Roadway/Open Space	-	-	0.03
2918	669079.0	4280635.0	Roadway/Open Space	-	-	0.03
2919	669089.0	4280635.0	Roadway/Open Space	-	-	0.04
2920	669099.0	4280635.0	Roadway/Open Space	-	-	0.03
2921	669109.0	4280635.0	Roadway/Open Space	-	-	0.04
2922	669119.0	4280635.0	Roadway/Open Space	-	-	0.03
2923	669129.0	4280635.0	Roadway/Open Space	-	-	0.04
2924	669139.0	4280635.0	Roadway/Open Space	-	-	0.04
2925	669149.0	4280635.0	Roadway/Open Space	-	-	0.04
2926	669159.0	4280635.0	Roadway/Open Space	-	-	0.04
2927	669169.0	4280635.0	Roadway/Open Space	-	-	0.03
2928	669179.0	4280635.0	Roadway/Open Space	-	-	0.04
2929	669189.0	4280635.0	Roadway/Open Space	-	-	0.04
2930	669199.0	4280635.0	Roadway/Open Space	-	-	0.04
2931	669209.0	4280635.0	Roadway/Open Space	-	-	0.04
2932	669219.0	4280635.0	Roadway/Open Space	-	-	0.04
2933	669229.0	4280635.0	Roadway/Open Space	-	-	0.04
2934	669239.0	4280635.0	Roadway/Open Space	-	-	0.04
2935	669249.0	4280635.0	Roadway/Open Space	-	-	0.03
2936	669259.0	4280635.0	Roadway/Open Space	-	-	0.04
2937	669269.0	4280635.0	Roadway/Open Space	-	-	0.04
2938	669279.0	4280635.0	Roadway/Open Space	-	-	0.03
2939	669289.0	4280635.0	Roadway/Open Space	-	-	0.03
2940	669299.0	4280635.0	Roadway/Open Space	-	-	0.03
2941	669309.0	4280635.0	Roadway/Open Space	-	-	0.03
2942	669319.0	4280635.0	Roadway/Open Space	-	-	0.03
2943	669329.0	4280635.0	Roadway/Open Space	-	-	0.03
2944	669339.0	4280635.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2945	669349.0	4280635.0	Roadway/Open Space	-	-	0.03
2946	669359.0	4280635.0	Roadway/Open Space	-	-	0.03
2947	669369.0	4280635.0	Roadway/Open Space	-	-	0.03
2948	669379.0	4280635.0	Roadway/Open Space	-	-	0.03
2949	669389.0	4280635.0	Roadway/Open Space	-	-	0.03
2950	669399.0	4280635.0	Roadway/Open Space	-	-	0.02
2951	669409.0	4280635.0	Roadway/Open Space	-	-	0.02
2952	669419.0	4280635.0	Roadway/Open Space	-	-	0.02
2953	669429.0	4280635.0	Roadway/Open Space	-	-	0.02
2954	669439.0	4280635.0	Roadway/Open Space	-	-	0.02
2955	669449.0	4280635.0	Roadway/Open Space	-	-	0.02
2956	669459.0	4280635.0	Roadway/Open Space	-	-	0.02
2957	669469.0	4280635.0	Roadway/Open Space	-	-	0.02
2958	669479.0	4280635.0	Roadway/Open Space	-	-	0.02
2959	669489.0	4280635.0	Roadway/Open Space	-	-	0.02
2960	669499.0	4280635.0	Roadway/Open Space	-	-	0.02
2961	669509.0	4280635.0	Roadway/Open Space	-	-	0.02
2962	669519.0	4280635.0	Roadway/Open Space	-	-	0.02
2963	669529.0	4280635.0	Roadway/Open Space	-	-	0.02
2964	669539.0	4280635.0	Roadway/Open Space	-	-	0.02
2965	669549.0	4280635.0	Roadway/Open Space	-	-	0.02
2966	669559.0	4280635.0	Roadway/Open Space	-	-	0.02
2967	669569.0	4280635.0	Roadway/Open Space	-	-	0.02
2968	669579.0	4280635.0	Roadway/Open Space	-	-	0.02
2969	669589.0	4280635.0	Roadway/Open Space	-	-	0.02
2970	669599.0	4280635.0	Roadway/Open Space	-	-	0.02
2971	668589.0	4280645.0	Roadway/Open Space	-	-	0.03
2972	668599.0	4280645.0	Roadway/Open Space	-	-	0.03
2973	668609.0	4280645.0	Roadway/Open Space	-	-	0.03
2974	668619.0	4280645.0	Roadway/Open Space	-	-	0.02
2975	668629.0	4280645.0	Roadway/Open Space	-	-	0.02
2976	668639.0	4280645.0	Roadway/Open Space	-	-	0.02
2977	668649.0	4280645.0	Roadway/Open Space	-	-	0.02
2978	668659.0	4280645.0	Roadway/Open Space	-	-	0.02
2979	668669.0	4280645.0	Roadway/Open Space	-	-	0.02
2980	668679.0	4280645.0	Roadway/Open Space	-	-	0.02
2981	668689.0	4280645.0	Roadway/Open Space	-	-	0.02
2982	668699.0	4280645.0	Roadway/Open Space	-	-	0.03
2983	668709.0	4280645.0	Roadway/Open Space	-	-	0.03
2984	668719.0	4280645.0	Roadway/Open Space	-	-	0.03
2985	668729.0	4280645.0	Roadway/Open Space	-	-	0.03
2986	668739.0	4280645.0	Roadway/Open Space	-	-	0.03
2987	668749.0	4280645.0	Roadway/Open Space	-	-	0.03
2988	668759.0	4280645.0	Roadway/Open Space	-	-	0.03
2989	668769.0	4280645.0	Roadway/Open Space	-	-	0.03
2990	668779.0	4280645.0	Roadway/Open Space	-	-	0.03
2991	668789.0	4280645.0	Roadway/Open Space	-	-	0.03
2992	668799.0	4280645.0	Roadway/Open Space	-	-	0.03
2993	668809.0	4280645.0	Roadway/Open Space	-	-	0.03
2994	668819.0	4280645.0	Roadway/Open Space	-	-	0.04
2995	668829.0	4280645.0	Roadway/Open Space	-	-	0.04
2996	668839.0	4280645.0	Roadway/Open Space	-	-	0.04
2997	668849.0	4280645.0	Roadway/Open Space	-	-	0.04
2998	668859.0	4280645.0	Roadway/Open Space	-	-	0.04
2999	668869.0	4280645.0	Roadway/Open Space	-	-	0.03
3000	668879.0	4280645.0	Roadway/Open Space	-	-	0.03
3001	668889.0	4280645.0	Roadway/Open Space	-	-	0.03
3002	668899.0	4280645.0	Roadway/Open Space	-	-	0.03
3003	668909.0	4280645.0	Roadway/Open Space	-	-	0.03
3004	668919.0	4280645.0	Roadway/Open Space	-	-	0.03
3005	668929.0	4280645.0	Roadway/Open Space	-	-	0.03
3006	668939.0	4280645.0	Roadway/Open Space	-	-	0.03
3007	668949.0	4280645.0	Roadway/Open Space	-	-	0.03
3008	668959.0	4280645.0	Roadway/Open Space	-	-	0.03
3009	668969.0	4280645.0	Roadway/Open Space	-	-	0.03
3010	668979.0	4280645.0	Roadway/Open Space	-	-	0.04
3011	668989.0	4280645.0	Roadway/Open Space	-	-	0.04
3012	668999.0	4280645.0	Roadway/Open Space	-	-	0.04
3013	669009.0	4280645.0	Roadway/Open Space	-	-	0.03
3014	669019.0	4280645.0	Roadway/Open Space	-	-	0.04
3015	669029.0	4280645.0	Roadway/Open Space	-	-	0.04
3020	669079.0	4280645.0	Roadway/Open Space	-	-	0.04
3021	669089.0	4280645.0	Roadway/Open Space	-	-	0.04
3022	669099.0	4280645.0	Roadway/Open Space	-	-	0.04
3023	669109.0	4280645.0	Roadway/Open Space	-	-	0.04
3024	669119.0	4280645.0	Roadway/Open Space	-	-	0.04
3025	669129.0	4280645.0	Roadway/Open Space	-	-	0.04
3026	669139.0	4280645.0	Roadway/Open Space	-	-	0.04
3027	669149.0	4280645.0	Roadway/Open Space	-	-	0.04
3028	669159.0	4280645.0	Roadway/Open Space	-	-	0.04
3029	669169.0	4280645.0	Roadway/Open Space	-	-	0.04
3030	669179.0	4280645.0	Roadway/Open Space	-	-	0.04
3031	669189.0	4280645.0	Roadway/Open Space	-	-	0.04
3032	669199.0	4280645.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3033	669209.0	4280645.0	Roadway/Open Space	-	-	0.04
3034	669219.0	4280645.0	Roadway/Open Space	-	-	0.04
3035	669229.0	4280645.0	Roadway/Open Space	-	-	0.04
3036	669239.0	4280645.0	Roadway/Open Space	-	-	0.04
3037	669249.0	4280645.0	Roadway/Open Space	-	-	0.04
3038	669259.0	4280645.0	Roadway/Open Space	-	-	0.04
3039	669269.0	4280645.0	Roadway/Open Space	-	-	0.04
3040	669279.0	4280645.0	Roadway/Open Space	-	-	0.04
3041	669289.0	4280645.0	Roadway/Open Space	-	-	0.04
3042	669299.0	4280645.0	Roadway/Open Space	-	-	0.03
3043	669309.0	4280645.0	Roadway/Open Space	-	-	0.03
3044	669319.0	4280645.0	Roadway/Open Space	-	-	0.03
3045	669329.0	4280645.0	Roadway/Open Space	-	-	0.03
3046	669339.0	4280645.0	Roadway/Open Space	-	-	0.03
3047	669349.0	4280645.0	Roadway/Open Space	-	-	0.03
3048	669359.0	4280645.0	Roadway/Open Space	-	-	0.03
3049	669369.0	4280645.0	Roadway/Open Space	-	-	0.03
3050	669379.0	4280645.0	Roadway/Open Space	-	-	0.03
3051	669389.0	4280645.0	Roadway/Open Space	-	-	0.03
3052	669399.0	4280645.0	Roadway/Open Space	-	-	0.02
3053	669409.0	4280645.0	Roadway/Open Space	-	-	0.02
3054	669419.0	4280645.0	Roadway/Open Space	-	-	0.02
3055	669429.0	4280645.0	Roadway/Open Space	-	-	0.02
3056	669439.0	4280645.0	Roadway/Open Space	-	-	0.02
3057	669449.0	4280645.0	Roadway/Open Space	-	-	0.02
3058	669459.0	4280645.0	Roadway/Open Space	-	-	0.02
3059	669469.0	4280645.0	Roadway/Open Space	-	-	0.02
3060	669479.0	4280645.0	Roadway/Open Space	-	-	0.02
3061	669489.0	4280645.0	Roadway/Open Space	-	-	0.02
3062	669499.0	4280645.0	Roadway/Open Space	-	-	0.02
3063	669509.0	4280645.0	Roadway/Open Space	-	-	0.02
3064	669519.0	4280645.0	Roadway/Open Space	-	-	0.02
3065	669529.0	4280645.0	Roadway/Open Space	-	-	0.02
3066	669539.0	4280645.0	Roadway/Open Space	-	-	0.02
3067	669549.0	4280645.0	Roadway/Open Space	-	-	0.02
3068	669559.0	4280645.0	Roadway/Open Space	-	-	0.02
3069	669569.0	4280645.0	Roadway/Open Space	-	-	0.02
3070	669579.0	4280645.0	Roadway/Open Space	-	-	0.02
3071	669589.0	4280645.0	Roadway/Open Space	-	-	0.02
3072	669599.0	4280645.0	Roadway/Open Space	-	-	0.02
3073	668589.0	4280655.0	Roadway/Open Space	-	-	0.03
3074	668599.0	4280655.0	Roadway/Open Space	-	-	0.03
3075	668609.0	4280655.0	Roadway/Open Space	-	-	0.03
3076	668619.0	4280655.0	Roadway/Open Space	-	-	0.02
3077	668629.0	4280655.0	Roadway/Open Space	-	-	0.02
3078	668639.0	4280655.0	Roadway/Open Space	-	-	0.02
3079	668649.0	4280655.0	Roadway/Open Space	-	-	0.02
3080	668659.0	4280655.0	Roadway/Open Space	-	-	0.02
3081	668669.0	4280655.0	Roadway/Open Space	-	-	0.02
3082	668679.0	4280655.0	Roadway/Open Space	-	-	0.03
3083	668689.0	4280655.0	Roadway/Open Space	-	-	0.03
3084	668699.0	4280655.0	Roadway/Open Space	-	-	0.03
3085	668709.0	4280655.0	Roadway/Open Space	-	-	0.03
3086	668719.0	4280655.0	Roadway/Open Space	-	-	0.03
3087	668729.0	4280655.0	Roadway/Open Space	-	-	0.03
3088	668739.0	4280655.0	Roadway/Open Space	-	-	0.04
3089	668749.0	4280655.0	Roadway/Open Space	-	-	0.04
3090	668759.0	4280655.0	Roadway/Open Space	-	-	0.04
3091	668769.0	4280655.0	Roadway/Open Space	-	-	0.03
3092	668779.0	4280655.0	Roadway/Open Space	-	-	0.03
3093	668789.0	4280655.0	Roadway/Open Space	-	-	0.03
3094	668799.0	4280655.0	Roadway/Open Space	-	-	0.03
3095	668809.0	4280655.0	Roadway/Open Space	-	-	0.04
3096	668819.0	4280655.0	Roadway/Open Space	-	-	0.04
3097	668829.0	4280655.0	Roadway/Open Space	-	-	0.04
3098	668839.0	4280655.0	Roadway/Open Space	-	-	0.04
3099	668849.0	4280655.0	Roadway/Open Space	-	-	0.04
3100	668859.0	4280655.0	Roadway/Open Space	-	-	0.04
3101	668869.0	4280655.0	Roadway/Open Space	-	-	0.04
3102	668879.0	4280655.0	Roadway/Open Space	-	-	0.03
3103	668889.0	4280655.0	Roadway/Open Space	-	-	0.03
3104	668899.0	4280655.0	Roadway/Open Space	-	-	0.03
3105	668909.0	4280655.0	Roadway/Open Space	-	-	0.03
3106	668919.0	4280655.0	Roadway/Open Space	-	-	0.03
3107	668929.0	4280655.0	Roadway/Open Space	-	-	0.03
3108	668939.0	4280655.0	Roadway/Open Space	-	-	0.03
3109	668949.0	4280655.0	Roadway/Open Space	-	-	0.03
3110	668959.0	4280655.0	Roadway/Open Space	-	-	0.03
3111	668969.0	4280655.0	Roadway/Open Space	-	-	0.04
3112	668979.0	4280655.0	Roadway/Open Space	-	-	0.04
3113	668989.0	4280655.0	Roadway/Open Space	-	-	0.04
3114	668999.0	4280655.0	Roadway/Open Space	-	-	0.04
3115	669009.0	4280655.0	Roadway/Open Space	-	-	0.04
3116	669019.0	4280655.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3123	669089.0	4280655.0	Roadway/Open Space	-	-	0.04
3124	669099.0	4280655.0	Roadway/Open Space	-	-	0.04
3125	669109.0	4280655.0	Roadway/Open Space	-	-	0.04
3126	669119.0	4280655.0	Roadway/Open Space	-	-	0.04
3127	669129.0	4280655.0	Roadway/Open Space	-	-	0.04
3128	669139.0	4280655.0	Roadway/Open Space	-	-	0.04
3129	669149.0	4280655.0	Roadway/Open Space	-	-	0.04
3130	669159.0	4280655.0	Roadway/Open Space	-	-	0.04
3131	669169.0	4280655.0	Roadway/Open Space	-	-	0.04
3132	669179.0	4280655.0	Roadway/Open Space	-	-	0.04
3133	669189.0	4280655.0	Roadway/Open Space	-	-	0.04
3134	669199.0	4280655.0	Roadway/Open Space	-	-	0.04
3135	669209.0	4280655.0	Roadway/Open Space	-	-	0.04
3136	669219.0	4280655.0	Roadway/Open Space	-	-	0.04
3137	669229.0	4280655.0	Roadway/Open Space	-	-	0.04
3138	669239.0	4280655.0	Roadway/Open Space	-	-	0.04
3139	669249.0	4280655.0	Roadway/Open Space	-	-	0.04
3140	669259.0	4280655.0	Roadway/Open Space	-	-	0.04
3141	669269.0	4280655.0	Roadway/Open Space	-	-	0.04
3142	669279.0	4280655.0	Roadway/Open Space	-	-	0.04
3143	669289.0	4280655.0	Roadway/Open Space	-	-	0.04
3144	669299.0	4280655.0	Roadway/Open Space	-	-	0.04
3145	669309.0	4280655.0	Roadway/Open Space	-	-	0.04
3146	669319.0	4280655.0	Roadway/Open Space	-	-	0.04
3147	669329.0	4280655.0	Roadway/Open Space	-	-	0.03
3148	669339.0	4280655.0	Roadway/Open Space	-	-	0.03
3149	669349.0	4280655.0	Roadway/Open Space	-	-	0.03
3150	669359.0	4280655.0	Roadway/Open Space	-	-	0.03
3151	669369.0	4280655.0	Roadway/Open Space	-	-	0.03
3152	669379.0	4280655.0	Roadway/Open Space	-	-	0.03
3153	669389.0	4280655.0	Roadway/Open Space	-	-	0.03
3154	669399.0	4280655.0	Roadway/Open Space	-	-	0.03
3155	669409.0	4280655.0	Roadway/Open Space	-	-	0.02
3156	669419.0	4280655.0	Roadway/Open Space	-	-	0.02
3157	669429.0	4280655.0	Roadway/Open Space	-	-	0.03
3158	669439.0	4280655.0	Roadway/Open Space	-	-	0.03
3159	669449.0	4280655.0	Roadway/Open Space	-	-	0.02
3160	669459.0	4280655.0	Roadway/Open Space	-	-	0.02
3161	669469.0	4280655.0	Roadway/Open Space	-	-	0.02
3162	669479.0	4280655.0	Roadway/Open Space	-	-	0.02
3163	669489.0	4280655.0	Roadway/Open Space	-	-	0.02
3164	669499.0	4280655.0	Roadway/Open Space	-	-	0.02
3165	669509.0	4280655.0	Roadway/Open Space	-	-	0.02
3166	669519.0	4280655.0	Roadway/Open Space	-	-	0.02
3167	669529.0	4280655.0	Roadway/Open Space	-	-	0.02
3168	669539.0	4280655.0	Roadway/Open Space	-	-	0.02
3169	669549.0	4280655.0	Roadway/Open Space	-	-	0.02
3170	669559.0	4280655.0	Roadway/Open Space	-	-	0.02
3171	669569.0	4280655.0	Roadway/Open Space	-	-	0.02
3172	669579.0	4280655.0	Roadway/Open Space	-	-	0.02
3173	669589.0	4280655.0	Roadway/Open Space	-	-	0.02
3174	669599.0	4280655.0	Roadway/Open Space	-	-	0.02
3175	669609.0	4280655.0	Roadway/Open Space	-	-	0.02
3176	668579.0	4280665.0	Roadway/Open Space	-	-	0.03
3177	668589.0	4280665.0	Roadway/Open Space	-	-	0.03
3178	668599.0	4280665.0	Roadway/Open Space	-	-	0.03
3179	668609.0	4280665.0	Roadway/Open Space	-	-	0.03
3180	668619.0	4280665.0	Roadway/Open Space	-	-	0.02
3181	668629.0	4280665.0	Roadway/Open Space	-	-	0.02
3182	668639.0	4280665.0	Roadway/Open Space	-	-	0.02
3183	668649.0	4280665.0	Roadway/Open Space	-	-	0.02
3184	668659.0	4280665.0	Roadway/Open Space	-	-	0.03
3185	668669.0	4280665.0	Roadway/Open Space	-	-	0.03
3186	668679.0	4280665.0	Roadway/Open Space	-	-	0.03
3187	668689.0	4280665.0	Roadway/Open Space	-	-	0.03
3188	668699.0	4280665.0	Roadway/Open Space	-	-	0.03
3189	668709.0	4280665.0	Residential	1.11	0.005	0.03
3190	668719.0	4280665.0	Residential	1.15	0.005	0.03
3191	668729.0	4280665.0	Residential	1.20	0.005	0.03
3192	668739.0	4280665.0	Residential	1.27	0.005	0.04
3193	668749.0	4280665.0	Roadway/Open Space	-	-	0.04
3194	668759.0	4280665.0	Roadway/Open Space	-	-	0.04
3195	668769.0	4280665.0	Roadway/Open Space	-	-	0.04
3196	668779.0	4280665.0	Roadway/Open Space	-	-	0.03
3197	668789.0	4280665.0	Roadway/Open Space	-	-	0.03
3198	668799.0	4280665.0	Roadway/Open Space	-	-	0.03
3199	668809.0	4280665.0	Roadway/Open Space	-	-	0.04
3200	668819.0	4280665.0	Roadway/Open Space	-	-	0.04
3201	668829.0	4280665.0	Roadway/Open Space	-	-	0.04
3202	668839.0	4280665.0	Roadway/Open Space	-	-	0.04
3203	668849.0	4280665.0	Roadway/Open Space	-	-	0.04
3204	668859.0	4280665.0	Roadway/Open Space	-	-	0.04
3205	668869.0	4280665.0	Roadway/Open Space	-	-	0.04
3206	668879.0	4280665.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3207	668889.0	4280665.0	Roadway/Open Space	-	-	0.04
3208	668899.0	4280665.0	Roadway/Open Space	-	-	0.04
3209	668909.0	4280665.0	Roadway/Open Space	-	-	0.04
3210	668919.0	4280665.0	Roadway/Open Space	-	-	0.04
3211	668929.0	4280665.0	Roadway/Open Space	-	-	0.03
3212	668939.0	4280665.0	Roadway/Open Space	-	-	0.03
3213	668949.0	4280665.0	Roadway/Open Space	-	-	0.03
3214	668959.0	4280665.0	Roadway/Open Space	-	-	0.03
3215	668969.0	4280665.0	Roadway/Open Space	-	-	0.04
3216	668979.0	4280665.0	Roadway/Open Space	-	-	0.04
3217	668989.0	4280665.0	Roadway/Open Space	-	-	0.04
3218	668999.0	4280665.0	Roadway/Open Space	-	-	0.04
3219	669009.0	4280665.0	Roadway/Open Space	-	-	0.04
3228	669099.0	4280665.0	Roadway/Open Space	-	-	0.04
3229	669109.0	4280665.0	Roadway/Open Space	-	-	0.04
3230	669119.0	4280665.0	Roadway/Open Space	-	-	0.04
3231	669129.0	4280665.0	Roadway/Open Space	-	-	0.04
3232	669139.0	4280665.0	Roadway/Open Space	-	-	0.04
3233	669149.0	4280665.0	Roadway/Open Space	-	-	0.04
3234	669159.0	4280665.0	Roadway/Open Space	-	-	0.04
3235	669169.0	4280665.0	Roadway/Open Space	-	-	0.04
3236	669179.0	4280665.0	Roadway/Open Space	-	-	0.04
3237	669189.0	4280665.0	Roadway/Open Space	-	-	0.04
3238	669199.0	4280665.0	Roadway/Open Space	-	-	0.04
3239	669209.0	4280665.0	Roadway/Open Space	-	-	0.04
3240	669219.0	4280665.0	Roadway/Open Space	-	-	0.04
3241	669229.0	4280665.0	Roadway/Open Space	-	-	0.04
3242	669239.0	4280665.0	Roadway/Open Space	-	-	0.04
3243	669249.0	4280665.0	Roadway/Open Space	-	-	0.05
3244	669259.0	4280665.0	Roadway/Open Space	-	-	0.05
3245	669269.0	4280665.0	Roadway/Open Space	-	-	0.05
3246	669279.0	4280665.0	Roadway/Open Space	-	-	0.05
3247	669289.0	4280665.0	Roadway/Open Space	-	-	0.04
3248	669299.0	4280665.0	Roadway/Open Space	-	-	0.04
3249	669309.0	4280665.0	Roadway/Open Space	-	-	0.04
3250	669319.0	4280665.0	Roadway/Open Space	-	-	0.04
3251	669329.0	4280665.0	Roadway/Open Space	-	-	0.04
3252	669339.0	4280665.0	Roadway/Open Space	-	-	0.04
3253	669349.0	4280665.0	Roadway/Open Space	-	-	0.03
3254	669359.0	4280665.0	Roadway/Open Space	-	-	0.03
3255	669369.0	4280665.0	Roadway/Open Space	-	-	0.03
3256	669379.0	4280665.0	Roadway/Open Space	-	-	0.03
3257	669389.0	4280665.0	Roadway/Open Space	-	-	0.03
3258	669399.0	4280665.0	Roadway/Open Space	-	-	0.03
3259	669409.0	4280665.0	Roadway/Open Space	-	-	0.03
3260	669419.0	4280665.0	Roadway/Open Space	-	-	0.03
3261	669429.0	4280665.0	Roadway/Open Space	-	-	0.03
3262	669439.0	4280665.0	Roadway/Open Space	-	-	0.03
3263	669449.0	4280665.0	Roadway/Open Space	-	-	0.03
3264	669459.0	4280665.0	Roadway/Open Space	-	-	0.03
3265	669469.0	4280665.0	Roadway/Open Space	-	-	0.03
3266	669479.0	4280665.0	Roadway/Open Space	-	-	0.02
3267	669489.0	4280665.0	Roadway/Open Space	-	-	0.02
3268	669499.0	4280665.0	Roadway/Open Space	-	-	0.02
3269	669509.0	4280665.0	Roadway/Open Space	-	-	0.02
3270	669519.0	4280665.0	Roadway/Open Space	-	-	0.02
3271	669529.0	4280665.0	Roadway/Open Space	-	-	0.02
3272	669539.0	4280665.0	Roadway/Open Space	-	-	0.02
3273	669549.0	4280665.0	Roadway/Open Space	-	-	0.02
3274	669559.0	4280665.0	Roadway/Open Space	-	-	0.02
3275	669569.0	4280665.0	Roadway/Open Space	-	-	0.02
3276	669579.0	4280665.0	Roadway/Open Space	-	-	0.02
3277	669589.0	4280665.0	Roadway/Open Space	-	-	0.02
3278	669599.0	4280665.0	Roadway/Open Space	-	-	0.02
3279	669609.0	4280665.0	Roadway/Open Space	-	-	0.02
3280	668579.0	4280675.0	Roadway/Open Space	-	-	0.03
3281	668589.0	4280675.0	Roadway/Open Space	-	-	0.03
3282	668599.0	4280675.0	Roadway/Open Space	-	-	0.03
3283	668609.0	4280675.0	Roadway/Open Space	-	-	0.03
3284	668619.0	4280675.0	Roadway/Open Space	-	-	0.02
3285	668629.0	4280675.0	Roadway/Open Space	-	-	0.02
3286	668639.0	4280675.0	Roadway/Open Space	-	-	0.02
3287	668649.0	4280675.0	Roadway/Open Space	-	-	0.03
3288	668659.0	4280675.0	Roadway/Open Space	-	-	0.03
3289	668669.0	4280675.0	Roadway/Open Space	-	-	0.03
3290	668679.0	4280675.0	Roadway/Open Space	-	-	0.03
3291	668689.0	4280675.0	Roadway/Open Space	-	-	0.03
3292	668699.0	4280675.0	Residential	1.02	0.004	0.03
3293	668709.0	4280675.0	Residential	1.04	0.004	0.03
3294	668719.0	4280675.0	Residential	1.08	0.004	0.03
3295	668729.0	4280675.0	Residential	1.13	0.005	0.03
3296	668739.0	4280675.0	Residential	1.21	0.005	0.04
3297	668749.0	4280675.0	Residential	1.32	0.005	0.04
3298	668759.0	4280675.0	Residential	1.47	0.006	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3299	668769.0	4280675.0	Roadway/Open Space	-	-	0.04
3300	668779.0	4280675.0	Roadway/Open Space	-	-	0.04
3301	668789.0	4280675.0	Roadway/Open Space	-	-	0.03
3302	668799.0	4280675.0	Roadway/Open Space	-	-	0.03
3303	668809.0	4280675.0	Roadway/Open Space	-	-	0.04
3304	668819.0	4280675.0	Roadway/Open Space	-	-	0.04
3305	668829.0	4280675.0	Roadway/Open Space	-	-	0.04
3306	668839.0	4280675.0	Roadway/Open Space	-	-	0.04
3307	668849.0	4280675.0	Roadway/Open Space	-	-	0.04
3308	668859.0	4280675.0	Roadway/Open Space	-	-	0.04
3309	668869.0	4280675.0	Roadway/Open Space	-	-	0.04
3310	668879.0	4280675.0	Roadway/Open Space	-	-	0.04
3311	668889.0	4280675.0	Roadway/Open Space	-	-	0.04
3312	668899.0	4280675.0	Roadway/Open Space	-	-	0.04
3313	668909.0	4280675.0	Roadway/Open Space	-	-	0.04
3314	668919.0	4280675.0	Roadway/Open Space	-	-	0.04
3315	668929.0	4280675.0	Roadway/Open Space	-	-	0.04
3316	668939.0	4280675.0	Roadway/Open Space	-	-	0.04
3317	668949.0	4280675.0	Roadway/Open Space	-	-	0.04
3318	668959.0	4280675.0	Roadway/Open Space	-	-	0.04
3319	668969.0	4280675.0	Roadway/Open Space	-	-	0.04
3320	668979.0	4280675.0	Roadway/Open Space	-	-	0.04
3321	668989.0	4280675.0	Roadway/Open Space	-	-	0.04
3322	668999.0	4280675.0	Roadway/Open Space	-	-	0.04
3323	669009.0	4280675.0	Roadway/Open Space	-	-	0.04
3333	669109.0	4280675.0	Roadway/Open Space	-	-	0.04
3334	669119.0	4280675.0	Roadway/Open Space	-	-	0.04
3335	669129.0	4280675.0	Roadway/Open Space	-	-	0.04
3336	669139.0	4280675.0	Roadway/Open Space	-	-	0.04
3337	669149.0	4280675.0	Roadway/Open Space	-	-	0.04
3338	669159.0	4280675.0	Roadway/Open Space	-	-	0.04
3339	669169.0	4280675.0	Roadway/Open Space	-	-	0.04
3340	669179.0	4280675.0	Roadway/Open Space	-	-	0.04
3341	669189.0	4280675.0	Roadway/Open Space	-	-	0.04
3342	669199.0	4280675.0	Roadway/Open Space	-	-	0.04
3343	669209.0	4280675.0	Roadway/Open Space	-	-	0.04
3344	669219.0	4280675.0	Roadway/Open Space	-	-	0.04
3345	669229.0	4280675.0	Roadway/Open Space	-	-	0.04
3346	669239.0	4280675.0	Roadway/Open Space	-	-	0.04
3347	669249.0	4280675.0	Roadway/Open Space	-	-	0.05
3348	669259.0	4280675.0	Roadway/Open Space	-	-	0.05
3349	669269.0	4280675.0	Roadway/Open Space	-	-	0.05
3350	669279.0	4280675.0	Roadway/Open Space	-	-	0.05
3351	669289.0	4280675.0	Roadway/Open Space	-	-	0.04
3352	669299.0	4280675.0	Roadway/Open Space	-	-	0.04
3353	669309.0	4280675.0	Roadway/Open Space	-	-	0.04
3354	669319.0	4280675.0	Roadway/Open Space	-	-	0.04
3355	669329.0	4280675.0	Roadway/Open Space	-	-	0.04
3356	669339.0	4280675.0	Roadway/Open Space	-	-	0.04
3357	669349.0	4280675.0	Roadway/Open Space	-	-	0.03
3358	669359.0	4280675.0	Roadway/Open Space	-	-	0.03
3359	669369.0	4280675.0	Roadway/Open Space	-	-	0.03
3360	669379.0	4280675.0	Roadway/Open Space	-	-	0.03
3361	669389.0	4280675.0	Roadway/Open Space	-	-	0.03
3362	669399.0	4280675.0	Roadway/Open Space	-	-	0.03
3363	669409.0	4280675.0	Roadway/Open Space	-	-	0.03
3364	669419.0	4280675.0	Roadway/Open Space	-	-	0.03
3365	669429.0	4280675.0	Roadway/Open Space	-	-	0.03
3366	669439.0	4280675.0	Roadway/Open Space	-	-	0.03
3367	669449.0	4280675.0	Roadway/Open Space	-	-	0.03
3368	669459.0	4280675.0	Roadway/Open Space	-	-	0.03
3369	669469.0	4280675.0	Roadway/Open Space	-	-	0.03
3370	669479.0	4280675.0	Roadway/Open Space	-	-	0.02
3371	669489.0	4280675.0	Roadway/Open Space	-	-	0.02
3372	669499.0	4280675.0	Roadway/Open Space	-	-	0.02
3373	669509.0	4280675.0	Roadway/Open Space	-	-	0.02
3374	669519.0	4280675.0	Roadway/Open Space	-	-	0.02
3375	669529.0	4280675.0	Roadway/Open Space	-	-	0.02
3376	669539.0	4280675.0	Roadway/Open Space	-	-	0.02
3377	669549.0	4280675.0	Roadway/Open Space	-	-	0.02
3378	669559.0	4280675.0	Roadway/Open Space	-	-	0.02
3379	669569.0	4280675.0	Roadway/Open Space	-	-	0.02
3380	669579.0	4280675.0	Roadway/Open Space	-	-	0.02
3381	669589.0	4280675.0	Roadway/Open Space	-	-	0.02
3382	669599.0	4280675.0	Roadway/Open Space	-	-	0.02
3383	669609.0	4280675.0	Roadway/Open Space	-	-	0.02
3384	668569.0	4280685.0	Roadway/Open Space	-	-	0.03
3385	668579.0	4280685.0	Roadway/Open Space	-	-	0.03
3386	668589.0	4280685.0	Roadway/Open Space	-	-	0.03
3387	668599.0	4280685.0	Roadway/Open Space	-	-	0.03
3388	668609.0	4280685.0	Roadway/Open Space	-	-	0.02
3389	668619.0	4280685.0	Roadway/Open Space	-	-	0.02
3390	668629.0	4280685.0	Roadway/Open Space	-	-	0.02
3391	668639.0	4280685.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3392	668649.0	4280685.0	Roadway/Open Space	-	-	0.03
3393	668659.0	4280685.0	Roadway/Open Space	-	-	0.03
3394	668669.0	4280685.0	Roadway/Open Space	-	-	0.03
3395	668679.0	4280685.0	Roadway/Open Space	-	-	0.03
3396	668689.0	4280685.0	Residential	0.95	0.004	0.03
3397	668699.0	4280685.0	Residential	0.97	0.004	0.03
3398	668709.0	4280685.0	Residential	1.00	0.004	0.03
3399	668719.0	4280685.0	Residential	1.04	0.004	0.03
3400	668729.0	4280685.0	Residential	1.10	0.005	0.03
3401	668739.0	4280685.0	Residential	1.17	0.005	0.03
3402	668749.0	4280685.0	Residential	1.28	0.005	0.04
3403	668759.0	4280685.0	Residential	1.43	0.006	0.04
3404	668769.0	4280685.0	Residential	1.59	0.007	0.04
3405	668779.0	4280685.0	Roadway/Open Space	-	-	0.04
3406	668789.0	4280685.0	Roadway/Open Space	-	-	0.04
3407	668799.0	4280685.0	Roadway/Open Space	-	-	0.03
3408	668809.0	4280685.0	Roadway/Open Space	-	-	0.04
3409	668819.0	4280685.0	Roadway/Open Space	-	-	0.04
3410	668829.0	4280685.0	Roadway/Open Space	-	-	0.04
3411	668839.0	4280685.0	Roadway/Open Space	-	-	0.04
3412	668849.0	4280685.0	Roadway/Open Space	-	-	0.04
3413	668859.0	4280685.0	Roadway/Open Space	-	-	0.04
3414	668869.0	4280685.0	Roadway/Open Space	-	-	0.04
3415	668879.0	4280685.0	Roadway/Open Space	-	-	0.04
3416	668889.0	4280685.0	Roadway/Open Space	-	-	0.04
3417	668899.0	4280685.0	Roadway/Open Space	-	-	0.04
3418	668909.0	4280685.0	Roadway/Open Space	-	-	0.04
3419	668919.0	4280685.0	Roadway/Open Space	-	-	0.04
3420	668929.0	4280685.0	Roadway/Open Space	-	-	0.04
3421	668939.0	4280685.0	Roadway/Open Space	-	-	0.04
3422	668949.0	4280685.0	Roadway/Open Space	-	-	0.04
3423	668959.0	4280685.0	Roadway/Open Space	-	-	0.04
3424	668969.0	4280685.0	Roadway/Open Space	-	-	0.04
3425	668979.0	4280685.0	Roadway/Open Space	-	-	0.04
3426	668989.0	4280685.0	Roadway/Open Space	-	-	0.04
3427	668999.0	4280685.0	Roadway/Open Space	-	-	0.04
3439	669119.0	4280685.0	Roadway/Open Space	-	-	0.04
3440	669129.0	4280685.0	Roadway/Open Space	-	-	0.04
3441	669139.0	4280685.0	Roadway/Open Space	-	-	0.04
3442	669149.0	4280685.0	Roadway/Open Space	-	-	0.04
3443	669159.0	4280685.0	Roadway/Open Space	-	-	0.04
3444	669169.0	4280685.0	Roadway/Open Space	-	-	0.04
3445	669179.0	4280685.0	Roadway/Open Space	-	-	0.04
3446	669189.0	4280685.0	Roadway/Open Space	-	-	0.04
3447	669199.0	4280685.0	Roadway/Open Space	-	-	0.04
3448	669209.0	4280685.0	Roadway/Open Space	-	-	0.04
3449	669219.0	4280685.0	Roadway/Open Space	-	-	0.04
3450	669229.0	4280685.0	Roadway/Open Space	-	-	0.04
3451	669239.0	4280685.0	Roadway/Open Space	-	-	0.04
3452	669249.0	4280685.0	Roadway/Open Space	-	-	0.05
3453	669259.0	4280685.0	Roadway/Open Space	-	-	0.05
3454	669269.0	4280685.0	Roadway/Open Space	-	-	0.05
3455	669279.0	4280685.0	Roadway/Open Space	-	-	0.05
3456	669289.0	4280685.0	Roadway/Open Space	-	-	0.04
3457	669299.0	4280685.0	Roadway/Open Space	-	-	0.04
3458	669309.0	4280685.0	Roadway/Open Space	-	-	0.04
3459	669319.0	4280685.0	Roadway/Open Space	-	-	0.04
3460	669329.0	4280685.0	Roadway/Open Space	-	-	0.04
3461	669339.0	4280685.0	Roadway/Open Space	-	-	0.04
3462	669349.0	4280685.0	Roadway/Open Space	-	-	0.03
3463	669359.0	4280685.0	Roadway/Open Space	-	-	0.03
3464	669369.0	4280685.0	Roadway/Open Space	-	-	0.03
3465	669379.0	4280685.0	Roadway/Open Space	-	-	0.03
3466	669389.0	4280685.0	Roadway/Open Space	-	-	0.03
3467	669399.0	4280685.0	Roadway/Open Space	-	-	0.03
3468	669409.0	4280685.0	Roadway/Open Space	-	-	0.03
3469	669419.0	4280685.0	Roadway/Open Space	-	-	0.03
3470	669429.0	4280685.0	Roadway/Open Space	-	-	0.03
3471	669439.0	4280685.0	Roadway/Open Space	-	-	0.03
3472	669449.0	4280685.0	Roadway/Open Space	-	-	0.03
3473	669459.0	4280685.0	Roadway/Open Space	-	-	0.03
3474	669469.0	4280685.0	Roadway/Open Space	-	-	0.03
3475	669479.0	4280685.0	Roadway/Open Space	-	-	0.03
3476	669489.0	4280685.0	Roadway/Open Space	-	-	0.02
3477	669499.0	4280685.0	Roadway/Open Space	-	-	0.02
3478	669509.0	4280685.0	Roadway/Open Space	-	-	0.02
3479	669519.0	4280685.0	Roadway/Open Space	-	-	0.02
3480	669529.0	4280685.0	Roadway/Open Space	-	-	0.02
3481	669539.0	4280685.0	Roadway/Open Space	-	-	0.02
3482	669549.0	4280685.0	Roadway/Open Space	-	-	0.02
3483	669559.0	4280685.0	Roadway/Open Space	-	-	0.02
3484	669569.0	4280685.0	Roadway/Open Space	-	-	0.02
3485	669579.0	4280685.0	Roadway/Open Space	-	-	0.02
3486	669589.0	4280685.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3487	669599.0	4280685.0	Roadway/Open Space	-	-	0.02
3488	669609.0	4280685.0	Roadway/Open Space	-	-	0.02
3489	668569.0	4280695.0	Roadway/Open Space	-	-	0.03
3490	668579.0	4280695.0	Roadway/Open Space	-	-	0.03
3491	668589.0	4280695.0	Roadway/Open Space	-	-	0.03
3492	668599.0	4280695.0	Roadway/Open Space	-	-	0.03
3493	668609.0	4280695.0	Roadway/Open Space	-	-	0.02
3494	668619.0	4280695.0	Roadway/Open Space	-	-	0.02
3495	668629.0	4280695.0	Roadway/Open Space	-	-	0.03
3496	668639.0	4280695.0	Roadway/Open Space	-	-	0.03
3497	668649.0	4280695.0	Roadway/Open Space	-	-	0.03
3498	668659.0	4280695.0	Roadway/Open Space	-	-	0.03
3499	668669.0	4280695.0	Roadway/Open Space	-	-	0.03
3500	668679.0	4280695.0	Residential	0.89	0.004	0.03
3501	668689.0	4280695.0	Residential	0.90	0.004	0.03
3502	668699.0	4280695.0	Residential	0.92	0.004	0.03
3503	668709.0	4280695.0	Residential	0.96	0.004	0.03
3504	668719.0	4280695.0	Residential	1.01	0.004	0.03
3505	668729.0	4280695.0	Residential	1.07	0.004	0.03
3506	668739.0	4280695.0	Residential	1.15	0.005	0.04
3507	668749.0	4280695.0	Residential	1.26	0.005	0.04
3508	668759.0	4280695.0	Residential	1.39	0.006	0.04
3509	668769.0	4280695.0	Residential	1.55	0.006	0.04
3510	668779.0	4280695.0	Roadway/Open Space	-	-	0.04
3511	668789.0	4280695.0	Roadway/Open Space	-	-	0.04
3512	668799.0	4280695.0	Roadway/Open Space	-	-	0.04
3513	668809.0	4280695.0	Roadway/Open Space	-	-	0.04
3514	668819.0	4280695.0	Roadway/Open Space	-	-	0.04
3515	668829.0	4280695.0	Roadway/Open Space	-	-	0.04
3516	668839.0	4280695.0	Roadway/Open Space	-	-	0.04
3517	668849.0	4280695.0	Roadway/Open Space	-	-	0.04
3518	668859.0	4280695.0	Roadway/Open Space	-	-	0.04
3519	668869.0	4280695.0	Roadway/Open Space	-	-	0.05
3520	668879.0	4280695.0	Roadway/Open Space	-	-	0.04
3521	668889.0	4280695.0	Roadway/Open Space	-	-	0.04
3522	668899.0	4280695.0	Roadway/Open Space	-	-	0.04
3523	668909.0	4280695.0	Roadway/Open Space	-	-	0.04
3524	668919.0	4280695.0	Roadway/Open Space	-	-	0.04
3525	668929.0	4280695.0	Roadway/Open Space	-	-	0.04
3526	668939.0	4280695.0	Roadway/Open Space	-	-	0.04
3527	668949.0	4280695.0	Roadway/Open Space	-	-	0.04
3528	668959.0	4280695.0	Roadway/Open Space	-	-	0.04
3529	668969.0	4280695.0	Roadway/Open Space	-	-	0.04
3530	668979.0	4280695.0	Roadway/Open Space	-	-	0.04
3531	668989.0	4280695.0	Roadway/Open Space	-	-	0.04
3532	668999.0	4280695.0	Roadway/Open Space	-	-	0.04
3545	669129.0	4280695.0	Roadway/Open Space	-	-	0.04
3546	669139.0	4280695.0	Roadway/Open Space	-	-	0.04
3547	669149.0	4280695.0	Roadway/Open Space	-	-	0.04
3548	669159.0	4280695.0	Roadway/Open Space	-	-	0.04
3549	669169.0	4280695.0	Roadway/Open Space	-	-	0.04
3550	669179.0	4280695.0	Roadway/Open Space	-	-	0.04
3551	669189.0	4280695.0	Roadway/Open Space	-	-	0.04
3552	669199.0	4280695.0	Roadway/Open Space	-	-	0.04
3553	669209.0	4280695.0	Roadway/Open Space	-	-	0.04
3554	669219.0	4280695.0	Roadway/Open Space	-	-	0.04
3555	669229.0	4280695.0	Roadway/Open Space	-	-	0.04
3556	669239.0	4280695.0	Roadway/Open Space	-	-	0.04
3557	669249.0	4280695.0	Roadway/Open Space	-	-	0.05
3558	669259.0	4280695.0	Roadway/Open Space	-	-	0.05
3559	669269.0	4280695.0	Roadway/Open Space	-	-	0.05
3560	669279.0	4280695.0	Roadway/Open Space	-	-	0.05
3561	669289.0	4280695.0	Roadway/Open Space	-	-	0.04
3562	669299.0	4280695.0	Roadway/Open Space	-	-	0.04
3563	669309.0	4280695.0	Roadway/Open Space	-	-	0.04
3564	669319.0	4280695.0	Roadway/Open Space	-	-	0.04
3565	669329.0	4280695.0	Roadway/Open Space	-	-	0.04
3566	669339.0	4280695.0	Roadway/Open Space	-	-	0.04
3567	669349.0	4280695.0	Roadway/Open Space	-	-	0.03
3568	669359.0	4280695.0	Roadway/Open Space	-	-	0.03
3569	669369.0	4280695.0	Roadway/Open Space	-	-	0.03
3570	669379.0	4280695.0	Roadway/Open Space	-	-	0.03
3571	669389.0	4280695.0	Roadway/Open Space	-	-	0.03
3572	669399.0	4280695.0	Roadway/Open Space	-	-	0.03
3573	669409.0	4280695.0	Roadway/Open Space	-	-	0.03
3574	669419.0	4280695.0	Roadway/Open Space	-	-	0.03
3575	669429.0	4280695.0	Roadway/Open Space	-	-	0.03
3576	669439.0	4280695.0	Roadway/Open Space	-	-	0.03
3577	669449.0	4280695.0	Roadway/Open Space	-	-	0.03
3578	669459.0	4280695.0	Roadway/Open Space	-	-	0.03
3579	669469.0	4280695.0	Roadway/Open Space	-	-	0.03
3580	669479.0	4280695.0	Roadway/Open Space	-	-	0.03
3581	669489.0	4280695.0	Roadway/Open Space	-	-	0.03
3582	669499.0	4280695.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3583	669509.0	4280695.0	Roadway/Open Space	-	-	0.02
3584	669519.0	4280695.0	Roadway/Open Space	-	-	0.02
3585	669529.0	4280695.0	Roadway/Open Space	-	-	0.02
3586	669539.0	4280695.0	Roadway/Open Space	-	-	0.02
3587	669549.0	4280695.0	Roadway/Open Space	-	-	0.02
3588	669559.0	4280695.0	Roadway/Open Space	-	-	0.02
3589	669569.0	4280695.0	Roadway/Open Space	-	-	0.02
3590	669579.0	4280695.0	Roadway/Open Space	-	-	0.02
3591	669589.0	4280695.0	Roadway/Open Space	-	-	0.02
3592	669599.0	4280695.0	Roadway/Open Space	-	-	0.02
3593	669609.0	4280695.0	Roadway/Open Space	-	-	0.02
3594	669619.0	4280695.0	Roadway/Open Space	-	-	0.02
3595	668569.0	4280705.0	Roadway/Open Space	-	-	0.03
3596	668579.0	4280705.0	Roadway/Open Space	-	-	0.03
3597	668589.0	4280705.0	Roadway/Open Space	-	-	0.03
3598	668599.0	4280705.0	Roadway/Open Space	-	-	0.03
3599	668609.0	4280705.0	Roadway/Open Space	-	-	0.02
3600	668619.0	4280705.0	Roadway/Open Space	-	-	0.03
3601	668629.0	4280705.0	Roadway/Open Space	-	-	0.03
3602	668639.0	4280705.0	Roadway/Open Space	-	-	0.03
3603	668649.0	4280705.0	Roadway/Open Space	-	-	0.03
3604	668659.0	4280705.0	Roadway/Open Space	-	-	0.03
3605	668669.0	4280705.0	Roadway/Open Space	-	-	0.03
3606	668679.0	4280705.0	Residential	0.85	0.003	0.03
3607	668689.0	4280705.0	Residential	0.86	0.004	0.03
3608	668699.0	4280705.0	Residential	0.89	0.004	0.03
3609	668709.0	4280705.0	Residential	0.93	0.004	0.03
3610	668719.0	4280705.0	Roadway/Open Space	-	-	0.03
3611	668729.0	4280705.0	Roadway/Open Space	-	-	0.03
3612	668739.0	4280705.0	Residential	1.12	0.005	0.04
3613	668749.0	4280705.0	Residential	1.23	0.005	0.04
3614	668759.0	4280705.0	Residential	1.36	0.006	0.04
3615	668769.0	4280705.0	Residential	1.51	0.006	0.04
3616	668779.0	4280705.0	Roadway/Open Space	-	-	0.04
3617	668789.0	4280705.0	Roadway/Open Space	-	-	0.04
3618	668799.0	4280705.0	Roadway/Open Space	-	-	0.04
3619	668809.0	4280705.0	Roadway/Open Space	-	-	0.04
3620	668819.0	4280705.0	Roadway/Open Space	-	-	0.04
3621	668829.0	4280705.0	Roadway/Open Space	-	-	0.04
3622	668839.0	4280705.0	Roadway/Open Space	-	-	0.04
3623	668849.0	4280705.0	Roadway/Open Space	-	-	0.04
3624	668859.0	4280705.0	Roadway/Open Space	-	-	0.05
3625	668869.0	4280705.0	Roadway/Open Space	-	-	0.05
3626	668879.0	4280705.0	Roadway/Open Space	-	-	0.05
3627	668889.0	4280705.0	Roadway/Open Space	-	-	0.04
3628	668899.0	4280705.0	Roadway/Open Space	-	-	0.04
3629	668909.0	4280705.0	Roadway/Open Space	-	-	0.04
3630	668919.0	4280705.0	Roadway/Open Space	-	-	0.04
3631	668929.0	4280705.0	Roadway/Open Space	-	-	0.04
3632	668939.0	4280705.0	Roadway/Open Space	-	-	0.04
3633	668949.0	4280705.0	Roadway/Open Space	-	-	0.04
3634	668959.0	4280705.0	Roadway/Open Space	-	-	0.04
3635	668969.0	4280705.0	Roadway/Open Space	-	-	0.04
3636	668979.0	4280705.0	Roadway/Open Space	-	-	0.04
3637	668989.0	4280705.0	Roadway/Open Space	-	-	0.04
3638	668999.0	4280705.0	Roadway/Open Space	-	-	0.04
3651	669129.0	4280705.0	Roadway/Open Space	-	-	0.05
3652	669139.0	4280705.0	Roadway/Open Space	-	-	0.05
3653	669149.0	4280705.0	Roadway/Open Space	-	-	0.04
3654	669159.0	4280705.0	Roadway/Open Space	-	-	0.05
3655	669169.0	4280705.0	Roadway/Open Space	-	-	0.05
3656	669179.0	4280705.0	Roadway/Open Space	-	-	0.05
3657	669189.0	4280705.0	Roadway/Open Space	-	-	0.05
3658	669199.0	4280705.0	Roadway/Open Space	-	-	0.05
3659	669209.0	4280705.0	Roadway/Open Space	-	-	0.05
3660	669219.0	4280705.0	Roadway/Open Space	-	-	0.04
3661	669229.0	4280705.0	Roadway/Open Space	-	-	0.04
3662	669239.0	4280705.0	Roadway/Open Space	-	-	0.05
3663	669249.0	4280705.0	Roadway/Open Space	-	-	0.05
3664	669259.0	4280705.0	Roadway/Open Space	-	-	0.05
3665	669269.0	4280705.0	Roadway/Open Space	-	-	0.05
3666	669279.0	4280705.0	Roadway/Open Space	-	-	0.05
3667	669289.0	4280705.0	Roadway/Open Space	-	-	0.05
3668	669299.0	4280705.0	Roadway/Open Space	-	-	0.04
3669	669309.0	4280705.0	Roadway/Open Space	-	-	0.04
3670	669319.0	4280705.0	Roadway/Open Space	-	-	0.04
3671	669329.0	4280705.0	Roadway/Open Space	-	-	0.04
3672	669339.0	4280705.0	Roadway/Open Space	-	-	0.04
3673	669349.0	4280705.0	Roadway/Open Space	-	-	0.03
3674	669359.0	4280705.0	Roadway/Open Space	-	-	0.03
3675	669369.0	4280705.0	Roadway/Open Space	-	-	0.03
3676	669379.0	4280705.0	Roadway/Open Space	-	-	0.03
3677	669389.0	4280705.0	Roadway/Open Space	-	-	0.03
3678	669399.0	4280705.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3679	669409.0	4280705.0	Roadway/Open Space	-	-	0.03
3680	669419.0	4280705.0	Roadway/Open Space	-	-	0.03
3681	669429.0	4280705.0	Roadway/Open Space	-	-	0.03
3682	669439.0	4280705.0	Roadway/Open Space	-	-	0.03
3683	669449.0	4280705.0	Roadway/Open Space	-	-	0.03
3684	669459.0	4280705.0	Roadway/Open Space	-	-	0.03
3685	669469.0	4280705.0	Roadway/Open Space	-	-	0.03
3686	669479.0	4280705.0	Roadway/Open Space	-	-	0.03
3687	669489.0	4280705.0	Roadway/Open Space	-	-	0.03
3688	669499.0	4280705.0	Roadway/Open Space	-	-	0.03
3689	669509.0	4280705.0	Roadway/Open Space	-	-	0.03
3690	669519.0	4280705.0	Roadway/Open Space	-	-	0.02
3691	669529.0	4280705.0	Roadway/Open Space	-	-	0.02
3692	669539.0	4280705.0	Roadway/Open Space	-	-	0.02
3693	669549.0	4280705.0	Roadway/Open Space	-	-	0.02
3694	669559.0	4280705.0	Roadway/Open Space	-	-	0.02
3695	669569.0	4280705.0	Roadway/Open Space	-	-	0.02
3696	669579.0	4280705.0	Roadway/Open Space	-	-	0.02
3697	669589.0	4280705.0	Roadway/Open Space	-	-	0.02
3698	669599.0	4280705.0	Roadway/Open Space	-	-	0.02
3699	669609.0	4280705.0	Roadway/Open Space	-	-	0.03
3700	669619.0	4280705.0	Roadway/Open Space	-	-	0.03
3701	668559.0	4280715.0	Roadway/Open Space	-	-	0.03
3702	668569.0	4280715.0	Roadway/Open Space	-	-	0.03
3703	668579.0	4280715.0	Roadway/Open Space	-	-	0.03
3704	668589.0	4280715.0	Roadway/Open Space	-	-	0.03
3705	668599.0	4280715.0	Roadway/Open Space	-	-	0.03
3706	668609.0	4280715.0	Roadway/Open Space	-	-	0.03
3707	668619.0	4280715.0	Roadway/Open Space	-	-	0.03
3708	668629.0	4280715.0	Roadway/Open Space	-	-	0.03
3709	668639.0	4280715.0	Roadway/Open Space	-	-	0.03
3710	668649.0	4280715.0	Roadway/Open Space	-	-	0.03
3711	668659.0	4280715.0	Roadway/Open Space	-	-	0.03
3712	668669.0	4280715.0	Roadway/Open Space	-	-	0.03
3713	668679.0	4280715.0	Residential	0.81	0.003	0.03
3714	668689.0	4280715.0	Residential	0.84	0.003	0.03
3715	668699.0	4280715.0	Residential	0.87	0.004	0.03
3716	668709.0	4280715.0	Residential	0.91	0.004	0.03
3717	668719.0	4280715.0	Roadway/Open Space	-	-	0.03
3718	668729.0	4280715.0	Roadway/Open Space	-	-	0.03
3719	668739.0	4280715.0	Residential	1.09	0.005	0.03
3720	668749.0	4280715.0	Residential	1.20	0.005	0.04
3721	668759.0	4280715.0	Residential	1.32	0.005	0.04
3722	668769.0	4280715.0	Residential	1.46	0.006	0.04
3723	668779.0	4280715.0	Roadway/Open Space	-	-	0.04
3724	668789.0	4280715.0	Roadway/Open Space	-	-	0.04
3725	668799.0	4280715.0	Roadway/Open Space	-	-	0.04
3726	668809.0	4280715.0	Roadway/Open Space	-	-	0.04
3727	668819.0	4280715.0	Roadway/Open Space	-	-	0.04
3728	668829.0	4280715.0	Roadway/Open Space	-	-	0.04
3729	668839.0	4280715.0	Roadway/Open Space	-	-	0.04
3730	668849.0	4280715.0	Roadway/Open Space	-	-	0.04
3731	668859.0	4280715.0	Roadway/Open Space	-	-	0.05
3732	668869.0	4280715.0	Roadway/Open Space	-	-	0.05
3733	668879.0	4280715.0	Roadway/Open Space	-	-	0.05
3734	668889.0	4280715.0	Roadway/Open Space	-	-	0.05
3735	668899.0	4280715.0	Roadway/Open Space	-	-	0.04
3736	668909.0	4280715.0	Roadway/Open Space	-	-	0.04
3737	668919.0	4280715.0	Roadway/Open Space	-	-	0.04
3738	668929.0	4280715.0	Roadway/Open Space	-	-	0.04
3739	668939.0	4280715.0	Roadway/Open Space	-	-	0.04
3740	668949.0	4280715.0	Roadway/Open Space	-	-	0.04
3741	668959.0	4280715.0	Roadway/Open Space	-	-	0.04
3742	668969.0	4280715.0	Roadway/Open Space	-	-	0.04
3743	668979.0	4280715.0	Roadway/Open Space	-	-	0.04
3744	668989.0	4280715.0	Roadway/Open Space	-	-	0.04
3759	669139.0	4280715.0	Roadway/Open Space	-	-	0.05
3760	669149.0	4280715.0	Roadway/Open Space	-	-	0.05
3761	669159.0	4280715.0	Roadway/Open Space	-	-	0.05
3762	669169.0	4280715.0	Roadway/Open Space	-	-	0.05
3763	669179.0	4280715.0	Roadway/Open Space	-	-	0.05
3764	669189.0	4280715.0	Roadway/Open Space	-	-	0.05
3765	669199.0	4280715.0	Roadway/Open Space	-	-	0.05
3766	669209.0	4280715.0	Roadway/Open Space	-	-	0.05
3767	669219.0	4280715.0	Roadway/Open Space	-	-	0.05
3768	669229.0	4280715.0	Roadway/Open Space	-	-	0.05
3769	669239.0	4280715.0	Roadway/Open Space	-	-	0.05
3770	669249.0	4280715.0	Roadway/Open Space	-	-	0.05
3771	669259.0	4280715.0	Roadway/Open Space	-	-	0.05
3772	669269.0	4280715.0	Roadway/Open Space	-	-	0.05
3773	669279.0	4280715.0	Roadway/Open Space	-	-	0.05
3774	669289.0	4280715.0	Roadway/Open Space	-	-	0.05
3775	669299.0	4280715.0	Roadway/Open Space	-	-	0.04
3776	669309.0	4280715.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3777	669319.0	4280715.0	Roadway/Open Space	-	-	0.04
3778	669329.0	4280715.0	Roadway/Open Space	-	-	0.04
3779	669339.0	4280715.0	Roadway/Open Space	-	-	0.04
3780	669349.0	4280715.0	Roadway/Open Space	-	-	0.03
3781	669359.0	4280715.0	Roadway/Open Space	-	-	0.03
3782	669369.0	4280715.0	Roadway/Open Space	-	-	0.03
3783	669379.0	4280715.0	Roadway/Open Space	-	-	0.03
3784	669389.0	4280715.0	Roadway/Open Space	-	-	0.03
3785	669399.0	4280715.0	Roadway/Open Space	-	-	0.03
3786	669409.0	4280715.0	Roadway/Open Space	-	-	0.03
3787	669419.0	4280715.0	Roadway/Open Space	-	-	0.03
3788	669429.0	4280715.0	Roadway/Open Space	-	-	0.03
3789	669439.0	4280715.0	Roadway/Open Space	-	-	0.03
3790	669449.0	4280715.0	Roadway/Open Space	-	-	0.03
3791	669459.0	4280715.0	Roadway/Open Space	-	-	0.03
3792	669469.0	4280715.0	Roadway/Open Space	-	-	0.03
3793	669479.0	4280715.0	Roadway/Open Space	-	-	0.03
3794	669489.0	4280715.0	Roadway/Open Space	-	-	0.03
3795	669499.0	4280715.0	Roadway/Open Space	-	-	0.03
3796	669509.0	4280715.0	Roadway/Open Space	-	-	0.03
3797	669519.0	4280715.0	Roadway/Open Space	-	-	0.03
3798	669529.0	4280715.0	Roadway/Open Space	-	-	0.03
3799	669539.0	4280715.0	Roadway/Open Space	-	-	0.02
3800	669549.0	4280715.0	Roadway/Open Space	-	-	0.02
3801	669559.0	4280715.0	Roadway/Open Space	-	-	0.02
3802	669569.0	4280715.0	Roadway/Open Space	-	-	0.02
3803	669579.0	4280715.0	Roadway/Open Space	-	-	0.03
3804	669589.0	4280715.0	Roadway/Open Space	-	-	0.03
3805	669599.0	4280715.0	Roadway/Open Space	-	-	0.03
3806	669609.0	4280715.0	Roadway/Open Space	-	-	0.03
3807	669619.0	4280715.0	Roadway/Open Space	-	-	0.03
3808	668559.0	4280725.0	Residential	0.72	0.003	0.03
3809	668569.0	4280725.0	Residential	0.78	0.003	0.03
3810	668579.0	4280725.0	Residential	0.83	0.003	0.03
3811	668589.0	4280725.0	Residential	0.88	0.004	0.03
3812	668599.0	4280725.0	Roadway/Open Space	-	-	0.03
3813	668609.0	4280725.0	Roadway/Open Space	-	-	0.03
3814	668619.0	4280725.0	Roadway/Open Space	-	-	0.03
3815	668629.0	4280725.0	Roadway/Open Space	-	-	0.03
3816	668639.0	4280725.0	Roadway/Open Space	-	-	0.03
3817	668649.0	4280725.0	Roadway/Open Space	-	-	0.03
3818	668659.0	4280725.0	Roadway/Open Space	-	-	0.03
3819	668669.0	4280725.0	Residential	0.75	0.003	0.03
3820	668679.0	4280725.0	Residential	0.79	0.003	0.03
3821	668689.0	4280725.0	Residential	0.82	0.003	0.03
3822	668699.0	4280725.0	Residential	0.85	0.004	0.03
3823	668709.0	4280725.0	Residential	0.89	0.004	0.03
3824	668719.0	4280725.0	Roadway/Open Space	-	-	0.03
3825	668729.0	4280725.0	Residential	1.01	0.004	0.03
3826	668739.0	4280725.0	Residential	1.08	0.004	0.03
3827	668749.0	4280725.0	Residential	1.17	0.005	0.04
3828	668759.0	4280725.0	Residential	1.29	0.005	0.04
3829	668769.0	4280725.0	Residential	1.42	0.006	0.04
3830	668779.0	4280725.0	Roadway/Open Space	-	-	0.04
3831	668789.0	4280725.0	Roadway/Open Space	-	-	0.04
3832	668799.0	4280725.0	Roadway/Open Space	-	-	0.04
3833	668809.0	4280725.0	Roadway/Open Space	-	-	0.04
3834	668819.0	4280725.0	Roadway/Open Space	-	-	0.04
3835	668829.0	4280725.0	Roadway/Open Space	-	-	0.04
3836	668839.0	4280725.0	Roadway/Open Space	-	-	0.04
3837	668849.0	4280725.0	Roadway/Open Space	-	-	0.05
3838	668859.0	4280725.0	Roadway/Open Space	-	-	0.05
3839	668869.0	4280725.0	Roadway/Open Space	-	-	0.05
3840	668879.0	4280725.0	Roadway/Open Space	-	-	0.05
3841	668889.0	4280725.0	Roadway/Open Space	-	-	0.05
3842	668899.0	4280725.0	Roadway/Open Space	-	-	0.05
3843	668909.0	4280725.0	Roadway/Open Space	-	-	0.04
3844	668919.0	4280725.0	Roadway/Open Space	-	-	0.04
3845	668929.0	4280725.0	Roadway/Open Space	-	-	0.04
3846	668939.0	4280725.0	Roadway/Open Space	-	-	0.04
3847	668949.0	4280725.0	Roadway/Open Space	-	-	0.04
3848	668959.0	4280725.0	Roadway/Open Space	-	-	0.04
3849	668969.0	4280725.0	Roadway/Open Space	-	-	0.04
3850	668979.0	4280725.0	Roadway/Open Space	-	-	0.05
3851	668989.0	4280725.0	Roadway/Open Space	-	-	0.05
3867	669149.0	4280725.0	Roadway/Open Space	-	-	0.05
3868	669159.0	4280725.0	Roadway/Open Space	-	-	0.05
3869	669169.0	4280725.0	Roadway/Open Space	-	-	0.05
3870	669179.0	4280725.0	Roadway/Open Space	-	-	0.05
3871	669189.0	4280725.0	Roadway/Open Space	-	-	0.05
3872	669199.0	4280725.0	Roadway/Open Space	-	-	0.05
3873	669209.0	4280725.0	Roadway/Open Space	-	-	0.05
3874	669219.0	4280725.0	Roadway/Open Space	-	-	0.05
3875	669229.0	4280725.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3876	669239.0	4280725.0	Roadway/Open Space	-	-	0.05
3877	669249.0	4280725.0	Roadway/Open Space	-	-	0.05
3878	669259.0	4280725.0	Roadway/Open Space	-	-	0.05
3879	669269.0	4280725.0	Roadway/Open Space	-	-	0.05
3880	669279.0	4280725.0	Roadway/Open Space	-	-	0.05
3881	669289.0	4280725.0	Roadway/Open Space	-	-	0.05
3882	669299.0	4280725.0	Roadway/Open Space	-	-	0.05
3883	669309.0	4280725.0	Roadway/Open Space	-	-	0.05
3884	669319.0	4280725.0	Roadway/Open Space	-	-	0.04
3885	669329.0	4280725.0	Roadway/Open Space	-	-	0.04
3886	669339.0	4280725.0	Roadway/Open Space	-	-	0.04
3887	669349.0	4280725.0	Roadway/Open Space	-	-	0.04
3888	669359.0	4280725.0	Roadway/Open Space	-	-	0.04
3889	669369.0	4280725.0	Roadway/Open Space	-	-	0.03
3890	669379.0	4280725.0	Roadway/Open Space	-	-	0.03
3891	669389.0	4280725.0	Roadway/Open Space	-	-	0.03
3892	669399.0	4280725.0	Roadway/Open Space	-	-	0.03
3893	669409.0	4280725.0	Roadway/Open Space	-	-	0.03
3894	669419.0	4280725.0	Roadway/Open Space	-	-	0.03
3895	669429.0	4280725.0	Roadway/Open Space	-	-	0.03
3896	669439.0	4280725.0	Roadway/Open Space	-	-	0.03
3897	669449.0	4280725.0	Roadway/Open Space	-	-	0.03
3898	669459.0	4280725.0	Roadway/Open Space	-	-	0.03
3899	669469.0	4280725.0	Roadway/Open Space	-	-	0.03
3900	669479.0	4280725.0	Roadway/Open Space	-	-	0.03
3901	669489.0	4280725.0	Roadway/Open Space	-	-	0.03
3902	669499.0	4280725.0	Roadway/Open Space	-	-	0.03
3903	669509.0	4280725.0	Roadway/Open Space	-	-	0.03
3904	669519.0	4280725.0	Roadway/Open Space	-	-	0.03
3905	669529.0	4280725.0	Roadway/Open Space	-	-	0.03
3906	669539.0	4280725.0	Roadway/Open Space	-	-	0.02
3907	669549.0	4280725.0	Roadway/Open Space	-	-	0.02
3908	669559.0	4280725.0	Roadway/Open Space	-	-	0.02
3909	669569.0	4280725.0	Roadway/Open Space	-	-	0.03
3910	669579.0	4280725.0	Roadway/Open Space	-	-	0.03
3911	669589.0	4280725.0	Roadway/Open Space	-	-	0.03
3912	669599.0	4280725.0	Roadway/Open Space	-	-	0.03
3913	669609.0	4280725.0	Roadway/Open Space	-	-	0.03
3914	669619.0	4280725.0	Roadway/Open Space	-	-	0.03
3915	668559.0	4280735.0	Residential	0.74	0.003	0.03
3916	668569.0	4280735.0	Residential	0.78	0.003	0.03
3917	668579.0	4280735.0	Residential	0.80	0.003	0.03
3918	668589.0	4280735.0	Residential	0.83	0.003	0.03
3919	668599.0	4280735.0	Residential	0.85	0.004	0.03
3920	668609.0	4280735.0	Residential	0.86	0.004	0.03
3921	668619.0	4280735.0	Roadway/Open Space	-	-	0.03
3922	668629.0	4280735.0	Roadway/Open Space	-	-	0.03
3923	668639.0	4280735.0	Roadway/Open Space	-	-	0.03
3924	668649.0	4280735.0	Roadway/Open Space	-	-	0.03
3925	668659.0	4280735.0	Residential	0.72	0.003	0.03
3926	668669.0	4280735.0	Residential	0.75	0.003	0.03
3927	668679.0	4280735.0	Residential	0.77	0.003	0.03
3928	668689.0	4280735.0	Residential	0.80	0.003	0.03
3929	668699.0	4280735.0	Residential	0.84	0.003	0.03
3930	668709.0	4280735.0	Roadway/Open Space	-	-	0.03
3931	668719.0	4280735.0	Residential	0.94	0.004	0.03
3932	668729.0	4280735.0	Residential	1.00	0.004	0.03
3933	668739.0	4280735.0	Residential	1.06	0.004	0.03
3934	668749.0	4280735.0	Residential	1.14	0.005	0.03
3935	668759.0	4280735.0	Residential	1.26	0.005	0.04
3936	668769.0	4280735.0	Residential	1.39	0.006	0.04
3937	668779.0	4280735.0	Roadway/Open Space	-	-	0.04
3938	668789.0	4280735.0	Roadway/Open Space	-	-	0.04
3939	668799.0	4280735.0	Roadway/Open Space	-	-	0.05
3940	668809.0	4280735.0	Roadway/Open Space	-	-	0.05
3941	668819.0	4280735.0	Roadway/Open Space	-	-	0.05
3942	668829.0	4280735.0	Roadway/Open Space	-	-	0.04
3943	668839.0	4280735.0	Roadway/Open Space	-	-	0.04
3944	668849.0	4280735.0	Roadway/Open Space	-	-	0.05
3945	668859.0	4280735.0	Roadway/Open Space	-	-	0.05
3946	668869.0	4280735.0	Roadway/Open Space	-	-	0.05
3947	668879.0	4280735.0	Roadway/Open Space	-	-	0.05
3948	668889.0	4280735.0	Roadway/Open Space	-	-	0.05
3949	668899.0	4280735.0	Roadway/Open Space	-	-	0.05
3950	668909.0	4280735.0	Roadway/Open Space	-	-	0.05
3951	668919.0	4280735.0	Roadway/Open Space	-	-	0.04
3952	668929.0	4280735.0	Roadway/Open Space	-	-	0.04
3953	668939.0	4280735.0	Roadway/Open Space	-	-	0.04
3954	668949.0	4280735.0	Roadway/Open Space	-	-	0.04
3955	668959.0	4280735.0	Roadway/Open Space	-	-	0.04
3956	668969.0	4280735.0	Roadway/Open Space	-	-	0.05
3957	668979.0	4280735.0	Roadway/Open Space	-	-	0.05
3975	669159.0	4280735.0	Roadway/Open Space	-	-	0.05
3976	669169.0	4280735.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3977	669179.0	4280735.0	Roadway/Open Space	-	-	0.05
3978	669189.0	4280735.0	Roadway/Open Space	-	-	0.05
3979	669199.0	4280735.0	Roadway/Open Space	-	-	0.05
3980	669209.0	4280735.0	Roadway/Open Space	-	-	0.05
3981	669219.0	4280735.0	Roadway/Open Space	-	-	0.05
3982	669229.0	4280735.0	Roadway/Open Space	-	-	0.06
3983	669239.0	4280735.0	Roadway/Open Space	-	-	0.06
3984	669249.0	4280735.0	Roadway/Open Space	-	-	0.06
3985	669259.0	4280735.0	Roadway/Open Space	-	-	0.05
3986	669269.0	4280735.0	Roadway/Open Space	-	-	0.05
3987	669279.0	4280735.0	Roadway/Open Space	-	-	0.05
3988	669289.0	4280735.0	Roadway/Open Space	-	-	0.05
3989	669299.0	4280735.0	Roadway/Open Space	-	-	0.05
3990	669309.0	4280735.0	Roadway/Open Space	-	-	0.05
3991	669319.0	4280735.0	Roadway/Open Space	-	-	0.04
3992	669329.0	4280735.0	Roadway/Open Space	-	-	0.04
3993	669339.0	4280735.0	Roadway/Open Space	-	-	0.04
3994	669349.0	4280735.0	Roadway/Open Space	-	-	0.04
3995	669359.0	4280735.0	Roadway/Open Space	-	-	0.04
3996	669369.0	4280735.0	Roadway/Open Space	-	-	0.03
3997	669379.0	4280735.0	Roadway/Open Space	-	-	0.03
3998	669389.0	4280735.0	Roadway/Open Space	-	-	0.03
3999	669399.0	4280735.0	Roadway/Open Space	-	-	0.03
4000	669409.0	4280735.0	Roadway/Open Space	-	-	0.03
4001	669419.0	4280735.0	Roadway/Open Space	-	-	0.03
4002	669429.0	4280735.0	Roadway/Open Space	-	-	0.03
4003	669439.0	4280735.0	Roadway/Open Space	-	-	0.03
4004	669449.0	4280735.0	Roadway/Open Space	-	-	0.03
4005	669459.0	4280735.0	Roadway/Open Space	-	-	0.03
4006	669469.0	4280735.0	Roadway/Open Space	-	-	0.03
4007	669479.0	4280735.0	Roadway/Open Space	-	-	0.03
4008	669489.0	4280735.0	Roadway/Open Space	-	-	0.03
4009	669499.0	4280735.0	Roadway/Open Space	-	-	0.03
4010	669509.0	4280735.0	Roadway/Open Space	-	-	0.03
4011	669519.0	4280735.0	Roadway/Open Space	-	-	0.03
4012	669529.0	4280735.0	Roadway/Open Space	-	-	0.03
4013	669539.0	4280735.0	Roadway/Open Space	-	-	0.02
4014	669549.0	4280735.0	Roadway/Open Space	-	-	0.02
4015	669559.0	4280735.0	Roadway/Open Space	-	-	0.03
4016	669569.0	4280735.0	Roadway/Open Space	-	-	0.03
4017	669579.0	4280735.0	Worker	0.10	0.008	0.03
4018	669589.0	4280735.0	Roadway/Open Space	-	-	0.03
4019	669599.0	4280735.0	Roadway/Open Space	-	-	0.03
4020	669609.0	4280735.0	Roadway/Open Space	-	-	0.03
4021	669619.0	4280735.0	Roadway/Open Space	-	-	0.03
4022	668549.0	4280745.0	Residential	0.70	0.003	0.03
4023	668559.0	4280745.0	Residential	0.75	0.003	0.03
4024	668569.0	4280745.0	Residential	0.76	0.003	0.03
4025	668579.0	4280745.0	Residential	0.77	0.003	0.03
4026	668589.0	4280745.0	Residential	0.78	0.003	0.03
4027	668599.0	4280745.0	Residential	0.79	0.003	0.03
4028	668609.0	4280745.0	Residential	0.80	0.003	0.03
4029	668619.0	4280745.0	Residential	0.79	0.003	0.03
4030	668629.0	4280745.0	Roadway/Open Space	-	-	0.03
4031	668639.0	4280745.0	Residential	0.72	0.003	0.03
4032	668649.0	4280745.0	Residential	0.70	0.003	0.02
4033	668659.0	4280745.0	Residential	0.69	0.003	0.02
4034	668669.0	4280745.0	Residential	0.70	0.003	0.02
4035	668679.0	4280745.0	Residential	0.76	0.003	0.03
4036	668689.0	4280745.0	Residential	0.79	0.003	0.03
4037	668699.0	4280745.0	Residential	0.83	0.003	0.03
4038	668709.0	4280745.0	Roadway/Open Space	-	-	0.03
4039	668719.0	4280745.0	Residential	0.93	0.004	0.03
4040	668729.0	4280745.0	Residential	0.99	0.004	0.03
4041	668739.0	4280745.0	Residential	1.06	0.004	0.03
4042	668749.0	4280745.0	Residential	1.14	0.005	0.03
4043	668759.0	4280745.0	Residential	1.24	0.005	0.04
4044	668769.0	4280745.0	Roadway/Open Space	-	-	0.04
4045	668779.0	4280745.0	Roadway/Open Space	-	-	0.04
4046	668789.0	4280745.0	Roadway/Open Space	-	-	0.04
4047	668799.0	4280745.0	Roadway/Open Space	-	-	0.05
4048	668809.0	4280745.0	Roadway/Open Space	-	-	0.05
4049	668819.0	4280745.0	Roadway/Open Space	-	-	0.05
4050	668829.0	4280745.0	Roadway/Open Space	-	-	0.04
4051	668839.0	4280745.0	Roadway/Open Space	-	-	0.04
4052	668849.0	4280745.0	Roadway/Open Space	-	-	0.05
4053	668859.0	4280745.0	Roadway/Open Space	-	-	0.05
4054	668869.0	4280745.0	Roadway/Open Space	-	-	0.05
4055	668879.0	4280745.0	Roadway/Open Space	-	-	0.05
4056	668889.0	4280745.0	Roadway/Open Space	-	-	0.05
4057	668899.0	4280745.0	Roadway/Open Space	-	-	0.05
4058	668909.0	4280745.0	Roadway/Open Space	-	-	0.05
4059	668919.0	4280745.0	Roadway/Open Space	-	-	0.05
4060	668929.0	4280745.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4061	668939.0	4280745.0	Roadway/Open Space	-	-	0.05
4062	668949.0	4280745.0	Roadway/Open Space	-	-	0.05
4063	668959.0	4280745.0	Roadway/Open Space	-	-	0.05
4064	668969.0	4280745.0	Roadway/Open Space	-	-	0.05
4065	668979.0	4280745.0	Roadway/Open Space	-	-	0.05
4085	669179.0	4280745.0	Roadway/Open Space	-	-	0.05
4086	669189.0	4280745.0	Roadway/Open Space	-	-	0.05
4087	669199.0	4280745.0	Roadway/Open Space	-	-	0.05
4088	669209.0	4280745.0	Roadway/Open Space	-	-	0.05
4089	669219.0	4280745.0	Roadway/Open Space	-	-	0.05
4090	669229.0	4280745.0	Roadway/Open Space	-	-	0.06
4091	669239.0	4280745.0	Roadway/Open Space	-	-	0.06
4092	669249.0	4280745.0	Roadway/Open Space	-	-	0.06
4093	669259.0	4280745.0	Roadway/Open Space	-	-	0.05
4094	669269.0	4280745.0	Roadway/Open Space	-	-	0.05
4095	669279.0	4280745.0	Roadway/Open Space	-	-	0.05
4096	669289.0	4280745.0	Roadway/Open Space	-	-	0.05
4097	669299.0	4280745.0	Roadway/Open Space	-	-	0.05
4098	669309.0	4280745.0	Roadway/Open Space	-	-	0.04
4099	669319.0	4280745.0	Roadway/Open Space	-	-	0.04
4100	669329.0	4280745.0	Roadway/Open Space	-	-	0.05
4101	669339.0	4280745.0	Roadway/Open Space	-	-	0.04
4102	669349.0	4280745.0	Roadway/Open Space	-	-	0.04
4103	669359.0	4280745.0	Roadway/Open Space	-	-	0.04
4104	669369.0	4280745.0	Roadway/Open Space	-	-	0.04
4105	669379.0	4280745.0	Roadway/Open Space	-	-	0.03
4106	669389.0	4280745.0	Roadway/Open Space	-	-	0.03
4107	669399.0	4280745.0	Roadway/Open Space	-	-	0.03
4108	669409.0	4280745.0	Roadway/Open Space	-	-	0.03
4109	669419.0	4280745.0	Roadway/Open Space	-	-	0.03
4110	669429.0	4280745.0	Roadway/Open Space	-	-	0.03
4111	669439.0	4280745.0	Roadway/Open Space	-	-	0.03
4112	669449.0	4280745.0	Roadway/Open Space	-	-	0.03
4113	669459.0	4280745.0	Roadway/Open Space	-	-	0.03
4114	669469.0	4280745.0	Roadway/Open Space	-	-	0.03
4115	669479.0	4280745.0	Roadway/Open Space	-	-	0.03
4116	669489.0	4280745.0	Roadway/Open Space	-	-	0.03
4117	669499.0	4280745.0	Roadway/Open Space	-	-	0.03
4118	669509.0	4280745.0	Roadway/Open Space	-	-	0.03
4119	669519.0	4280745.0	Roadway/Open Space	-	-	0.03
4120	669529.0	4280745.0	Roadway/Open Space	-	-	0.03
4121	669539.0	4280745.0	Roadway/Open Space	-	-	0.02
4122	669549.0	4280745.0	Worker	0.12	0.009	0.02
4123	669559.0	4280745.0	Worker	0.11	0.009	0.03
4124	669569.0	4280745.0	Worker	0.11	0.009	0.03
4125	669579.0	4280745.0	Worker	0.10	0.008	0.03
4126	669589.0	4280745.0	Worker	0.10	0.008	0.03
4127	669599.0	4280745.0	Worker	0.10	0.008	0.03
4128	669609.0	4280745.0	Roadway/Open Space	-	-	0.03
4129	669619.0	4280745.0	Roadway/Open Space	-	-	0.03
4130	668549.0	4280755.0	Residential	0.70	0.003	0.03
4131	668559.0	4280755.0	Residential	0.72	0.003	0.03
4132	668569.0	4280755.0	Residential	0.72	0.003	0.03
4133	668579.0	4280755.0	Residential	0.73	0.003	0.03
4134	668589.0	4280755.0	Residential	0.74	0.003	0.03
4135	668599.0	4280755.0	Residential	0.74	0.003	0.03
4136	668609.0	4280755.0	Residential	0.75	0.003	0.03
4137	668619.0	4280755.0	Residential	0.73	0.003	0.03
4138	668629.0	4280755.0	Residential	0.71	0.003	0.03
4139	668639.0	4280755.0	Roadway/Open Space	-	-	0.03
4140	668649.0	4280755.0	Residential	0.68	0.003	0.02
4141	668659.0	4280755.0	Residential	0.68	0.003	0.02
4142	668669.0	4280755.0	Residential	0.69	0.003	0.02
4143	668679.0	4280755.0	Residential	0.75	0.003	0.02
4144	668689.0	4280755.0	Residential	0.78	0.003	0.02
4145	668699.0	4280755.0	Roadway/Open Space	-	-	0.03
4146	668709.0	4280755.0	Residential	0.87	0.004	0.03
4147	668719.0	4280755.0	Residential	0.92	0.004	0.03
4148	668729.0	4280755.0	Residential	0.98	0.004	0.03
4149	668739.0	4280755.0	Residential	1.06	0.004	0.03
4150	668749.0	4280755.0	Residential	1.14	0.005	0.03
4151	668759.0	4280755.0	Residential	1.23	0.005	0.04
4152	668769.0	4280755.0	Roadway/Open Space	-	-	0.04
4153	668779.0	4280755.0	Roadway/Open Space	-	-	0.04
4154	668789.0	4280755.0	Roadway/Open Space	-	-	0.04
4155	668799.0	4280755.0	Roadway/Open Space	-	-	0.05
4156	668809.0	4280755.0	Roadway/Open Space	-	-	0.05
4157	668819.0	4280755.0	Roadway/Open Space	-	-	0.05
4158	668829.0	4280755.0	Roadway/Open Space	-	-	0.04
4159	668839.0	4280755.0	Roadway/Open Space	-	-	0.04
4160	668849.0	4280755.0	Roadway/Open Space	-	-	0.05
4161	668859.0	4280755.0	Roadway/Open Space	-	-	0.05
4162	668869.0	4280755.0	Roadway/Open Space	-	-	0.05
4163	668879.0	4280755.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4164	668889.0	4280755.0	Roadway/Open Space	-	-	0.05
4165	668899.0	4280755.0	Roadway/Open Space	-	-	0.05
4166	668909.0	4280755.0	Roadway/Open Space	-	-	0.05
4167	668919.0	4280755.0	Roadway/Open Space	-	-	0.05
4168	668929.0	4280755.0	Roadway/Open Space	-	-	0.05
4169	668939.0	4280755.0	Roadway/Open Space	-	-	0.05
4170	668949.0	4280755.0	Roadway/Open Space	-	-	0.05
4171	668959.0	4280755.0	Roadway/Open Space	-	-	0.05
4172	668969.0	4280755.0	Roadway/Open Space	-	-	0.05
4195	669199.0	4280755.0	Roadway/Open Space	-	-	0.05
4196	669209.0	4280755.0	Roadway/Open Space	-	-	0.05
4197	669219.0	4280755.0	Roadway/Open Space	-	-	0.06
4198	669229.0	4280755.0	Roadway/Open Space	-	-	0.06
4199	669239.0	4280755.0	Roadway/Open Space	-	-	0.06
4200	669249.0	4280755.0	Roadway/Open Space	-	-	0.06
4201	669259.0	4280755.0	Roadway/Open Space	-	-	0.05
4202	669269.0	4280755.0	Roadway/Open Space	-	-	0.05
4203	669279.0	4280755.0	Roadway/Open Space	-	-	0.05
4204	669289.0	4280755.0	Roadway/Open Space	-	-	0.05
4205	669299.0	4280755.0	Roadway/Open Space	-	-	0.05
4206	669309.0	4280755.0	Roadway/Open Space	-	-	0.04
4207	669319.0	4280755.0	Roadway/Open Space	-	-	0.05
4208	669329.0	4280755.0	Roadway/Open Space	-	-	0.05
4209	669339.0	4280755.0	Roadway/Open Space	-	-	0.05
4210	669349.0	4280755.0	Roadway/Open Space	-	-	0.04
4211	669359.0	4280755.0	Roadway/Open Space	-	-	0.04
4212	669369.0	4280755.0	Roadway/Open Space	-	-	0.04
4213	669379.0	4280755.0	Roadway/Open Space	-	-	0.04
4214	669389.0	4280755.0	Roadway/Open Space	-	-	0.03
4215	669399.0	4280755.0	Roadway/Open Space	-	-	0.03
4216	669409.0	4280755.0	Roadway/Open Space	-	-	0.03
4217	669419.0	4280755.0	Roadway/Open Space	-	-	0.03
4218	669429.0	4280755.0	Roadway/Open Space	-	-	0.03
4219	669439.0	4280755.0	Roadway/Open Space	-	-	0.03
4220	669449.0	4280755.0	Roadway/Open Space	-	-	0.03
4221	669459.0	4280755.0	Roadway/Open Space	-	-	0.03
4222	669469.0	4280755.0	Roadway/Open Space	-	-	0.03
4223	669479.0	4280755.0	Roadway/Open Space	-	-	0.03
4224	669489.0	4280755.0	Roadway/Open Space	-	-	0.03
4225	669499.0	4280755.0	Roadway/Open Space	-	-	0.03
4226	669509.0	4280755.0	Roadway/Open Space	-	-	0.03
4227	669519.0	4280755.0	Roadway/Open Space	-	-	0.03
4228	669529.0	4280755.0	Roadway/Open Space	-	-	0.03
4229	669539.0	4280755.0	Roadway/Open Space	-	-	0.02
4230	669549.0	4280755.0	Worker	0.12	0.009	0.03
4231	669559.0	4280755.0	Worker	0.11	0.009	0.03
4232	669569.0	4280755.0	Worker	0.11	0.009	0.03
4233	669579.0	4280755.0	Worker	0.10	0.008	0.03
4234	669589.0	4280755.0	Worker	0.10	0.008	0.03
4235	669599.0	4280755.0	Worker	0.09	0.008	0.03
4236	669609.0	4280755.0	Roadway/Open Space	-	-	0.03
4237	669619.0	4280755.0	Roadway/Open Space	-	-	0.03
4238	668549.0	4280765.0	Residential	0.66	0.003	0.03
4239	668559.0	4280765.0	Residential	0.67	0.003	0.03
4240	668569.0	4280765.0	Residential	0.67	0.003	0.03
4241	668579.0	4280765.0	Residential	0.68	0.003	0.03
4242	668589.0	4280765.0	Residential	0.69	0.003	0.03
4243	668599.0	4280765.0	Residential	0.70	0.003	0.03
4244	668609.0	4280765.0	Residential	0.70	0.003	0.03
4245	668619.0	4280765.0	Residential	0.69	0.003	0.03
4246	668629.0	4280765.0	Residential	0.68	0.003	0.03
4247	668639.0	4280765.0	Roadway/Open Space	-	-	0.02
4248	668649.0	4280765.0	Residential	0.66	0.003	0.02
4249	668659.0	4280765.0	Residential	0.66	0.003	0.02
4250	668669.0	4280765.0	Residential	0.67	0.003	0.02
4251	668679.0	4280765.0	Residential	0.74	0.003	0.02
4252	668689.0	4280765.0	Roadway/Open Space	-	-	0.02
4253	668699.0	4280765.0	Residential	0.81	0.003	0.02
4254	668709.0	4280765.0	Residential	0.86	0.004	0.03
4255	668719.0	4280765.0	Residential	0.92	0.004	0.03
4256	668729.0	4280765.0	Residential	0.98	0.004	0.03
4257	668739.0	4280765.0	Residential	1.07	0.004	0.03
4258	668749.0	4280765.0	Residential	1.11	0.005	0.03
4259	668759.0	4280765.0	Roadway/Open Space	-	-	0.03
4260	668769.0	4280765.0	Roadway/Open Space	-	-	0.04
4261	668779.0	4280765.0	Roadway/Open Space	-	-	0.04
4262	668789.0	4280765.0	Roadway/Open Space	-	-	0.04
4263	668799.0	4280765.0	Roadway/Open Space	-	-	0.05
4264	668809.0	4280765.0	Roadway/Open Space	-	-	0.05
4265	668819.0	4280765.0	Roadway/Open Space	-	-	0.05
4266	668829.0	4280765.0	Roadway/Open Space	-	-	0.04
4267	668839.0	4280765.0	Roadway/Open Space	-	-	0.04
4268	668849.0	4280765.0	Roadway/Open Space	-	-	0.05
4269	668859.0	4280765.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4270	668869.0	4280765.0	Roadway/Open Space	-	-	0.05
4271	668879.0	4280765.0	Roadway/Open Space	-	-	0.05
4272	668889.0	4280765.0	Roadway/Open Space	-	-	0.05
4273	668899.0	4280765.0	Roadway/Open Space	-	-	0.05
4274	668909.0	4280765.0	Roadway/Open Space	-	-	0.05
4275	668919.0	4280765.0	Roadway/Open Space	-	-	0.05
4276	668929.0	4280765.0	Roadway/Open Space	-	-	0.05
4277	668939.0	4280765.0	Roadway/Open Space	-	-	0.05
4278	668949.0	4280765.0	Roadway/Open Space	-	-	0.05
4279	668959.0	4280765.0	Roadway/Open Space	-	-	0.05
4280	668969.0	4280765.0	Roadway/Open Space	-	-	0.05
4305	669219.0	4280765.0	Roadway/Open Space	-	-	0.06
4306	669229.0	4280765.0	Roadway/Open Space	-	-	0.06
4307	669239.0	4280765.0	Roadway/Open Space	-	-	0.06
4308	669249.0	4280765.0	Roadway/Open Space	-	-	0.06
4309	669259.0	4280765.0	Roadway/Open Space	-	-	0.05
4310	669269.0	4280765.0	Roadway/Open Space	-	-	0.05
4311	669279.0	4280765.0	Roadway/Open Space	-	-	0.05
4312	669289.0	4280765.0	Roadway/Open Space	-	-	0.05
4313	669299.0	4280765.0	Roadway/Open Space	-	-	0.05
4314	669309.0	4280765.0	Roadway/Open Space	-	-	0.05
4315	669319.0	4280765.0	Roadway/Open Space	-	-	0.05
4316	669329.0	4280765.0	Roadway/Open Space	-	-	0.05
4317	669339.0	4280765.0	Roadway/Open Space	-	-	0.05
4318	669349.0	4280765.0	Roadway/Open Space	-	-	0.04
4319	669359.0	4280765.0	Roadway/Open Space	-	-	0.04
4320	669369.0	4280765.0	Roadway/Open Space	-	-	0.04
4321	669379.0	4280765.0	Roadway/Open Space	-	-	0.04
4322	669389.0	4280765.0	Roadway/Open Space	-	-	0.03
4323	669399.0	4280765.0	Roadway/Open Space	-	-	0.03
4324	669409.0	4280765.0	Roadway/Open Space	-	-	0.03
4325	669419.0	4280765.0	Roadway/Open Space	-	-	0.03
4326	669429.0	4280765.0	Roadway/Open Space	-	-	0.03
4327	669439.0	4280765.0	Roadway/Open Space	-	-	0.03
4328	669449.0	4280765.0	Roadway/Open Space	-	-	0.03
4329	669459.0	4280765.0	Roadway/Open Space	-	-	0.03
4330	669469.0	4280765.0	Roadway/Open Space	-	-	0.03
4331	669479.0	4280765.0	Roadway/Open Space	-	-	0.03
4332	669489.0	4280765.0	Roadway/Open Space	-	-	0.03
4333	669499.0	4280765.0	Roadway/Open Space	-	-	0.03
4334	669509.0	4280765.0	Roadway/Open Space	-	-	0.03
4335	669519.0	4280765.0	Roadway/Open Space	-	-	0.03
4336	669529.0	4280765.0	Roadway/Open Space	-	-	0.03
4337	669539.0	4280765.0	Worker	0.12	0.010	0.03
4338	669549.0	4280765.0	Worker	0.12	0.009	0.03
4339	669559.0	4280765.0	Worker	0.11	0.009	0.03
4340	669569.0	4280765.0	Worker	0.11	0.008	0.03
4341	669579.0	4280765.0	Worker	0.10	0.008	0.03
4342	669589.0	4280765.0	Worker	0.10	0.008	0.03
4343	669599.0	4280765.0	Worker	0.09	0.007	0.03
4344	669609.0	4280765.0	Roadway/Open Space	-	-	0.03
4345	669619.0	4280765.0	Roadway/Open Space	-	-	0.03
4346	668549.0	4280775.0	Residential	0.60	0.002	0.03
4347	668559.0	4280775.0	Residential	0.61	0.003	0.03
4348	668569.0	4280775.0	Residential	0.62	0.003	0.03
4349	668579.0	4280775.0	Residential	0.63	0.003	0.03
4350	668589.0	4280775.0	Residential	0.65	0.003	0.03
4351	668599.0	4280775.0	Residential	0.67	0.003	0.03
4352	668609.0	4280775.0	Residential	0.67	0.003	0.03
4353	668619.0	4280775.0	Residential	0.66	0.003	0.03
4354	668629.0	4280775.0	Residential	0.65	0.003	0.02
4355	668639.0	4280775.0	Roadway/Open Space	-	-	0.02
4356	668649.0	4280775.0	Residential	0.64	0.003	0.02
4357	668659.0	4280775.0	Residential	0.65	0.003	0.02
4358	668669.0	4280775.0	Roadway/Open Space	-	-	0.02
4359	668679.0	4280775.0	Residential	0.68	0.003	0.02
4360	668689.0	4280775.0	Residential	0.76	0.003	0.02
4361	668699.0	4280775.0	Residential	0.80	0.003	0.02
4362	668709.0	4280775.0	Residential	0.86	0.004	0.02
4363	668719.0	4280775.0	Residential	0.87	0.004	0.03
4364	668729.0	4280775.0	Residential	0.94	0.004	0.03
4365	668739.0	4280775.0	Residential	1.02	0.004	0.03
4366	668749.0	4280775.0	Residential	1.13	0.005	0.03
4367	668759.0	4280775.0	Roadway/Open Space	-	-	0.04
4368	668769.0	4280775.0	Roadway/Open Space	-	-	0.04
4369	668779.0	4280775.0	Roadway/Open Space	-	-	0.04
4370	668789.0	4280775.0	Roadway/Open Space	-	-	0.05
4371	668799.0	4280775.0	Roadway/Open Space	-	-	0.05
4372	668809.0	4280775.0	Roadway/Open Space	-	-	0.05
4373	668819.0	4280775.0	Roadway/Open Space	-	-	0.05
4374	668829.0	4280775.0	Roadway/Open Space	-	-	0.04
4375	668839.0	4280775.0	Roadway/Open Space	-	-	0.05
4376	668849.0	4280775.0	Roadway/Open Space	-	-	0.05
4377	668859.0	4280775.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4378	668869.0	4280775.0	Roadway/Open Space	-	-	0.05
4379	668879.0	4280775.0	Roadway/Open Space	-	-	0.05
4380	668889.0	4280775.0	Roadway/Open Space	-	-	0.05
4381	668899.0	4280775.0	Roadway/Open Space	-	-	0.05
4382	668909.0	4280775.0	Roadway/Open Space	-	-	0.05
4383	668919.0	4280775.0	Roadway/Open Space	-	-	0.05
4384	668929.0	4280775.0	Roadway/Open Space	-	-	0.05
4385	668939.0	4280775.0	Roadway/Open Space	-	-	0.05
4386	668949.0	4280775.0	Roadway/Open Space	-	-	0.05
4387	668959.0	4280775.0	Roadway/Open Space	-	-	0.05
4414	669229.0	4280775.0	Roadway/Open Space	-	-	0.06
4415	669239.0	4280775.0	Roadway/Open Space	-	-	0.06
4416	669249.0	4280775.0	Roadway/Open Space	-	-	0.06
4417	669259.0	4280775.0	Roadway/Open Space	-	-	0.05
4418	669269.0	4280775.0	Roadway/Open Space	-	-	0.05
4419	669279.0	4280775.0	Roadway/Open Space	-	-	0.05
4420	669289.0	4280775.0	Roadway/Open Space	-	-	0.05
4421	669299.0	4280775.0	Roadway/Open Space	-	-	0.05
4422	669309.0	4280775.0	Roadway/Open Space	-	-	0.05
4423	669319.0	4280775.0	Roadway/Open Space	-	-	0.05
4424	669329.0	4280775.0	Roadway/Open Space	-	-	0.05
4425	669339.0	4280775.0	Roadway/Open Space	-	-	0.05
4426	669349.0	4280775.0	Roadway/Open Space	-	-	0.05
4427	669359.0	4280775.0	Roadway/Open Space	-	-	0.04
4428	669369.0	4280775.0	Roadway/Open Space	-	-	0.04
4429	669379.0	4280775.0	Roadway/Open Space	-	-	0.04
4430	669389.0	4280775.0	Roadway/Open Space	-	-	0.04
4431	669399.0	4280775.0	Roadway/Open Space	-	-	0.03
4432	669409.0	4280775.0	Roadway/Open Space	-	-	0.03
4433	669419.0	4280775.0	Roadway/Open Space	-	-	0.03
4434	669429.0	4280775.0	Roadway/Open Space	-	-	0.03
4435	669439.0	4280775.0	Roadway/Open Space	-	-	0.03
4436	669449.0	4280775.0	Roadway/Open Space	-	-	0.03
4437	669459.0	4280775.0	Roadway/Open Space	-	-	0.03
4438	669469.0	4280775.0	Roadway/Open Space	-	-	0.03
4439	669479.0	4280775.0	Roadway/Open Space	-	-	0.03
4440	669489.0	4280775.0	Roadway/Open Space	-	-	0.03
4441	669499.0	4280775.0	Roadway/Open Space	-	-	0.03
4442	669509.0	4280775.0	Roadway/Open Space	-	-	0.03
4443	669519.0	4280775.0	Roadway/Open Space	-	-	0.03
4444	669529.0	4280775.0	Roadway/Open Space	-	-	0.03
4445	669539.0	4280775.0	Worker	0.12	0.010	0.03
4446	669549.0	4280775.0	Worker	0.11	0.009	0.03
4447	669559.0	4280775.0	Worker	0.11	0.009	0.03
4448	669569.0	4280775.0	Worker	0.10	0.008	0.03
4449	669579.0	4280775.0	Worker	0.10	0.008	0.03
4450	669589.0	4280775.0	Worker	0.10	0.008	0.03
4451	669599.0	4280775.0	Worker	0.09	0.007	0.03
4452	669609.0	4280775.0	Roadway/Open Space	-	-	0.03
4453	669619.0	4280775.0	Roadway/Open Space	-	-	0.03
4454	668539.0	4280785.0	Residential	0.55	0.002	0.02
4455	668549.0	4280785.0	Residential	0.56	0.002	0.02
4456	668559.0	4280785.0	Residential	0.56	0.002	0.02
4457	668569.0	4280785.0	Residential	0.58	0.002	0.02
4458	668579.0	4280785.0	Residential	0.59	0.002	0.02
4459	668589.0	4280785.0	Residential	0.61	0.003	0.02
4460	668599.0	4280785.0	Residential	0.63	0.003	0.02
4461	668609.0	4280785.0	Residential	0.63	0.003	0.02
4462	668619.0	4280785.0	Residential	0.62	0.003	0.02
4463	668629.0	4280785.0	Residential	0.62	0.003	0.02
4464	668639.0	4280785.0	Roadway/Open Space	-	-	0.02
4465	668649.0	4280785.0	Roadway/Open Space	-	-	0.02
4466	668659.0	4280785.0	Residential	0.63	0.003	0.02
4467	668669.0	4280785.0	Residential	0.65	0.003	0.02
4468	668679.0	4280785.0	Residential	0.67	0.003	0.02
4469	668689.0	4280785.0	Residential	0.75	0.003	0.02
4470	668699.0	4280785.0	Residential	0.79	0.003	0.02
4471	668709.0	4280785.0	Residential	0.80	0.003	0.02
4472	668719.0	4280785.0	Residential	0.88	0.004	0.02
4473	668729.0	4280785.0	Residential	0.96	0.004	0.03
4474	668739.0	4280785.0	Residential	1.05	0.004	0.03
4475	668749.0	4280785.0	Roadway/Open Space	-	-	0.03
4476	668759.0	4280785.0	Roadway/Open Space	-	-	0.04
4477	668769.0	4280785.0	Roadway/Open Space	-	-	0.04
4478	668779.0	4280785.0	Roadway/Open Space	-	-	0.04
4479	668789.0	4280785.0	Roadway/Open Space	-	-	0.05
4480	668799.0	4280785.0	Roadway/Open Space	-	-	0.05
4481	668809.0	4280785.0	Roadway/Open Space	-	-	0.05
4482	668819.0	4280785.0	Roadway/Open Space	-	-	0.04
4483	668829.0	4280785.0	Roadway/Open Space	-	-	0.04
4484	668839.0	4280785.0	Roadway/Open Space	-	-	0.05
4485	668849.0	4280785.0	Roadway/Open Space	-	-	0.05
4486	668859.0	4280785.0	Roadway/Open Space	-	-	0.05
4487	668869.0	4280785.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4488	668879.0	4280785.0	Roadway/Open Space	-	-	0.05
4489	668889.0	4280785.0	Roadway/Open Space	-	-	0.05
4490	668899.0	4280785.0	Roadway/Open Space	-	-	0.05
4491	668909.0	4280785.0	Roadway/Open Space	-	-	0.05
4492	668919.0	4280785.0	Roadway/Open Space	-	-	0.05
4493	668929.0	4280785.0	Roadway/Open Space	-	-	0.05
4494	668939.0	4280785.0	Roadway/Open Space	-	-	0.05
4495	668949.0	4280785.0	Roadway/Open Space	-	-	0.06
4496	668959.0	4280785.0	Roadway/Open Space	-	-	0.05
4523	669229.0	4280785.0	Roadway/Open Space	-	-	0.06
4524	669239.0	4280785.0	Roadway/Open Space	-	-	0.06
4525	669249.0	4280785.0	Roadway/Open Space	-	-	0.06
4526	669259.0	4280785.0	Roadway/Open Space	-	-	0.06
4527	669269.0	4280785.0	Roadway/Open Space	-	-	0.05
4528	669279.0	4280785.0	Roadway/Open Space	-	-	0.05
4529	669289.0	4280785.0	Roadway/Open Space	-	-	0.05
4530	669299.0	4280785.0	Roadway/Open Space	-	-	0.05
4531	669309.0	4280785.0	Roadway/Open Space	-	-	0.05
4532	669319.0	4280785.0	Roadway/Open Space	-	-	0.05
4533	669329.0	4280785.0	Roadway/Open Space	-	-	0.05
4534	669339.0	4280785.0	Roadway/Open Space	-	-	0.05
4535	669349.0	4280785.0	Roadway/Open Space	-	-	0.05
4536	669359.0	4280785.0	Roadway/Open Space	-	-	0.05
4537	669369.0	4280785.0	Roadway/Open Space	-	-	0.04
4538	669379.0	4280785.0	Roadway/Open Space	-	-	0.04
4539	669389.0	4280785.0	Roadway/Open Space	-	-	0.04
4540	669399.0	4280785.0	Roadway/Open Space	-	-	0.04
4541	669409.0	4280785.0	Roadway/Open Space	-	-	0.03
4542	669419.0	4280785.0	Roadway/Open Space	-	-	0.03
4543	669429.0	4280785.0	Roadway/Open Space	-	-	0.03
4544	669439.0	4280785.0	Roadway/Open Space	-	-	0.03
4545	669449.0	4280785.0	Roadway/Open Space	-	-	0.03
4546	669459.0	4280785.0	Roadway/Open Space	-	-	0.03
4547	669469.0	4280785.0	Roadway/Open Space	-	-	0.03
4548	669479.0	4280785.0	Roadway/Open Space	-	-	0.03
4549	669489.0	4280785.0	Roadway/Open Space	-	-	0.03
4550	669499.0	4280785.0	Roadway/Open Space	-	-	0.03
4551	669509.0	4280785.0	Roadway/Open Space	-	-	0.03
4552	669519.0	4280785.0	Roadway/Open Space	-	-	0.03
4553	669529.0	4280785.0	Roadway/Open Space	-	-	0.03
4554	669539.0	4280785.0	Worker	0.12	0.010	0.03
4555	669549.0	4280785.0	Worker	0.11	0.009	0.03
4556	669559.0	4280785.0	Worker	0.11	0.009	0.03
4557	669569.0	4280785.0	Worker	0.10	0.008	0.03
4558	669579.0	4280785.0	Worker	0.10	0.008	0.03
4559	669589.0	4280785.0	Worker	0.10	0.008	0.03
4560	669599.0	4280785.0	Worker	0.09	0.007	0.03
4561	669609.0	4280785.0	Roadway/Open Space	-	-	0.03
4562	669619.0	4280785.0	Roadway/Open Space	-	-	0.03
4563	668539.0	4280795.0	Residential	0.52	0.002	0.02
4564	668549.0	4280795.0	Residential	0.52	0.002	0.02
4565	668559.0	4280795.0	Residential	0.53	0.002	0.02
4566	668569.0	4280795.0	Residential	0.54	0.002	0.02
4567	668579.0	4280795.0	Residential	0.56	0.002	0.02
4568	668589.0	4280795.0	Residential	0.57	0.002	0.02
4569	668599.0	4280795.0	Residential	0.58	0.002	0.02
4570	668609.0	4280795.0	Residential	0.59	0.002	0.02
4571	668619.0	4280795.0	Residential	0.59	0.002	0.02
4572	668629.0	4280795.0	Residential	0.58	0.002	0.02
4573	668639.0	4280795.0	Residential	0.58	0.002	0.02
4574	668649.0	4280795.0	Residential	0.59	0.002	0.02
4575	668659.0	4280795.0	Residential	0.61	0.003	0.02
4576	668669.0	4280795.0	Residential	0.63	0.003	0.02
4577	668679.0	4280795.0	Residential	0.66	0.003	0.02
4578	668689.0	4280795.0	Residential	0.69	0.003	0.02
4579	668699.0	4280795.0	Residential	0.74	0.003	0.02
4580	668709.0	4280795.0	Residential	0.81	0.003	0.02
4581	668719.0	4280795.0	Residential	0.90	0.004	0.02
4582	668729.0	4280795.0	Residential	0.99	0.004	0.03
4583	668739.0	4280795.0	Roadway/Open Space	-	-	0.03
4584	668749.0	4280795.0	Roadway/Open Space	-	-	0.04
4585	668759.0	4280795.0	Roadway/Open Space	-	-	0.04
4586	668769.0	4280795.0	Roadway/Open Space	-	-	0.04
4587	668779.0	4280795.0	Roadway/Open Space	-	-	0.05
4588	668789.0	4280795.0	Roadway/Open Space	-	-	0.05
4589	668799.0	4280795.0	Roadway/Open Space	-	-	0.05
4590	668809.0	4280795.0	Roadway/Open Space	-	-	0.05
4591	668819.0	4280795.0	Roadway/Open Space	-	-	0.04
4592	668829.0	4280795.0	Roadway/Open Space	-	-	0.05
4593	668839.0	4280795.0	Roadway/Open Space	-	-	0.05
4594	668849.0	4280795.0	Roadway/Open Space	-	-	0.05
4595	668859.0	4280795.0	Roadway/Open Space	-	-	0.05
4596	668869.0	4280795.0	Roadway/Open Space	-	-	0.05
4597	668879.0	4280795.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4598	668889.0	4280795.0	Roadway/Open Space	-	-	0.05
4599	668899.0	4280795.0	Roadway/Open Space	-	-	0.05
4600	668909.0	4280795.0	Roadway/Open Space	-	-	0.05
4601	668919.0	4280795.0	Roadway/Open Space	-	-	0.05
4602	668929.0	4280795.0	Roadway/Open Space	-	-	0.06
4603	668939.0	4280795.0	Roadway/Open Space	-	-	0.06
4604	668949.0	4280795.0	Roadway/Open Space	-	-	0.06
4605	668959.0	4280795.0	Roadway/Open Space	-	-	0.06
4631	669219.0	4280795.0	Roadway/Open Space	-	-	0.07
4632	669229.0	4280795.0	Roadway/Open Space	-	-	0.06
4633	669239.0	4280795.0	Roadway/Open Space	-	-	0.06
4634	669249.0	4280795.0	Roadway/Open Space	-	-	0.06
4635	669259.0	4280795.0	Roadway/Open Space	-	-	0.06
4636	669269.0	4280795.0	Roadway/Open Space	-	-	0.05
4637	669279.0	4280795.0	Roadway/Open Space	-	-	0.05
4638	669289.0	4280795.0	Roadway/Open Space	-	-	0.05
4639	669299.0	4280795.0	Roadway/Open Space	-	-	0.05
4640	669309.0	4280795.0	Roadway/Open Space	-	-	0.05
4641	669319.0	4280795.0	Roadway/Open Space	-	-	0.05
4642	669329.0	4280795.0	Roadway/Open Space	-	-	0.05
4643	669339.0	4280795.0	Roadway/Open Space	-	-	0.06
4644	669349.0	4280795.0	Roadway/Open Space	-	-	0.05
4645	669359.0	4280795.0	Roadway/Open Space	-	-	0.05
4646	669369.0	4280795.0	Roadway/Open Space	-	-	0.04
4647	669379.0	4280795.0	Roadway/Open Space	-	-	0.04
4648	669389.0	4280795.0	Roadway/Open Space	-	-	0.04
4649	669399.0	4280795.0	Roadway/Open Space	-	-	0.04
4650	669409.0	4280795.0	Roadway/Open Space	-	-	0.04
4651	669419.0	4280795.0	Roadway/Open Space	-	-	0.03
4652	669429.0	4280795.0	Roadway/Open Space	-	-	0.03
4653	669439.0	4280795.0	Roadway/Open Space	-	-	0.03
4654	669449.0	4280795.0	Roadway/Open Space	-	-	0.03
4655	669459.0	4280795.0	Roadway/Open Space	-	-	0.03
4656	669469.0	4280795.0	Roadway/Open Space	-	-	0.03
4657	669479.0	4280795.0	Roadway/Open Space	-	-	0.03
4658	669489.0	4280795.0	Roadway/Open Space	-	-	0.03
4659	669499.0	4280795.0	Roadway/Open Space	-	-	0.03
4660	669509.0	4280795.0	Roadway/Open Space	-	-	0.03
4661	669519.0	4280795.0	Worker	0.13	0.011	0.03
4662	669529.0	4280795.0	Worker	0.13	0.010	0.03
4663	669539.0	4280795.0	Worker	0.12	0.010	0.03
4664	669549.0	4280795.0	Worker	0.11	0.009	0.03
4665	669559.0	4280795.0	Worker	0.11	0.009	0.03
4666	669569.0	4280795.0	Worker	0.10	0.008	0.03
4667	669579.0	4280795.0	Worker	0.10	0.008	0.03
4668	669589.0	4280795.0	Worker	0.10	0.008	0.03
4669	669599.0	4280795.0	Worker	0.09	0.007	0.03
4670	669609.0	4280795.0	Roadway/Open Space	-	-	0.03
4671	669619.0	4280795.0	Roadway/Open Space	-	-	0.03
4672	668539.0	4280805.0	Residential	0.49	0.002	0.02
4673	668549.0	4280805.0	Residential	0.49	0.002	0.02
4674	668559.0	4280805.0	Residential	0.50	0.002	0.02
4675	668569.0	4280805.0	Residential	0.51	0.002	0.02
4676	668579.0	4280805.0	Residential	0.52	0.002	0.02
4677	668589.0	4280805.0	Residential	0.54	0.002	0.02
4678	668599.0	4280805.0	Residential	0.55	0.002	0.02
4679	668609.0	4280805.0	Residential	0.55	0.002	0.02
4680	668619.0	4280805.0	Residential	0.56	0.002	0.02
4681	668629.0	4280805.0	Residential	0.56	0.002	0.02
4682	668639.0	4280805.0	Residential	0.56	0.002	0.02
4683	668649.0	4280805.0	Roadway/Open Space	-	-	0.02
4684	668659.0	4280805.0	Residential	0.59	0.002	0.02
4685	668669.0	4280805.0	Residential	0.62	0.003	0.02
4686	668679.0	4280805.0	Residential	0.65	0.003	0.02
4687	668689.0	4280805.0	Residential	0.69	0.003	0.02
4688	668699.0	4280805.0	Residential	0.75	0.003	0.02
4689	668709.0	4280805.0	Residential	0.83	0.003	0.02
4690	668719.0	4280805.0	Residential	0.93	0.004	0.03
4691	668729.0	4280805.0	Roadway/Open Space	-	-	0.03
4692	668739.0	4280805.0	Roadway/Open Space	-	-	0.03
4693	668749.0	4280805.0	Roadway/Open Space	-	-	0.04
4694	668759.0	4280805.0	Roadway/Open Space	-	-	0.04
4695	668769.0	4280805.0	Roadway/Open Space	-	-	0.05
4696	668779.0	4280805.0	Roadway/Open Space	-	-	0.05
4697	668789.0	4280805.0	Roadway/Open Space	-	-	0.05
4698	668799.0	4280805.0	Roadway/Open Space	-	-	0.05
4699	668809.0	4280805.0	Roadway/Open Space	-	-	0.04
4700	668819.0	4280805.0	Roadway/Open Space	-	-	0.04
4701	668829.0	4280805.0	Roadway/Open Space	-	-	0.05
4702	668839.0	4280805.0	Roadway/Open Space	-	-	0.05
4703	668849.0	4280805.0	Roadway/Open Space	-	-	0.05
4704	668859.0	4280805.0	Roadway/Open Space	-	-	0.05
4705	668869.0	4280805.0	Roadway/Open Space	-	-	0.05
4706	668879.0	4280805.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4707	668889.0	4280805.0	Roadway/Open Space	-	-	0.05
4708	668899.0	4280805.0	Roadway/Open Space	-	-	0.05
4709	668909.0	4280805.0	Roadway/Open Space	-	-	0.05
4710	668919.0	4280805.0	Roadway/Open Space	-	-	0.06
4711	668929.0	4280805.0	Roadway/Open Space	-	-	0.06
4712	668939.0	4280805.0	Roadway/Open Space	-	-	0.06
4713	668949.0	4280805.0	Roadway/Open Space	-	-	0.06
4740	669219.0	4280805.0	Roadway/Open Space	-	-	0.07
4741	669229.0	4280805.0	Roadway/Open Space	-	-	0.07
4742	669239.0	4280805.0	Roadway/Open Space	-	-	0.06
4743	669249.0	4280805.0	Roadway/Open Space	-	-	0.06
4744	669259.0	4280805.0	Roadway/Open Space	-	-	0.06
4745	669269.0	4280805.0	Roadway/Open Space	-	-	0.06
4746	669279.0	4280805.0	Roadway/Open Space	-	-	0.05
4747	669289.0	4280805.0	Roadway/Open Space	-	-	0.05
4748	669299.0	4280805.0	Roadway/Open Space	-	-	0.05
4749	669309.0	4280805.0	Roadway/Open Space	-	-	0.05
4750	669319.0	4280805.0	Roadway/Open Space	-	-	0.06
4751	669329.0	4280805.0	Roadway/Open Space	-	-	0.06
4752	669339.0	4280805.0	Roadway/Open Space	-	-	0.06
4753	669349.0	4280805.0	Roadway/Open Space	-	-	0.05
4754	669359.0	4280805.0	Roadway/Open Space	-	-	0.05
4755	669369.0	4280805.0	Roadway/Open Space	-	-	0.04
4756	669379.0	4280805.0	Roadway/Open Space	-	-	0.04
4757	669389.0	4280805.0	Roadway/Open Space	-	-	0.04
4758	669399.0	4280805.0	Roadway/Open Space	-	-	0.04
4759	669409.0	4280805.0	Roadway/Open Space	-	-	0.04
4760	669419.0	4280805.0	Roadway/Open Space	-	-	0.03
4761	669429.0	4280805.0	Roadway/Open Space	-	-	0.03
4762	669439.0	4280805.0	Roadway/Open Space	-	-	0.03
4763	669449.0	4280805.0	Roadway/Open Space	-	-	0.03
4764	669459.0	4280805.0	Roadway/Open Space	-	-	0.03
4765	669469.0	4280805.0	Roadway/Open Space	-	-	0.03
4766	669479.0	4280805.0	Roadway/Open Space	-	-	0.03
4767	669489.0	4280805.0	Roadway/Open Space	-	-	0.03
4768	669499.0	4280805.0	Roadway/Open Space	-	-	0.03
4769	669509.0	4280805.0	Roadway/Open Space	-	-	0.03
4770	669519.0	4280805.0	Worker	0.13	0.011	0.03
4771	669529.0	4280805.0	Worker	0.13	0.010	0.03
4772	669539.0	4280805.0	Worker	0.12	0.010	0.03
4773	669549.0	4280805.0	Worker	0.11	0.009	0.03
4774	669559.0	4280805.0	Worker	0.11	0.009	0.03
4775	669569.0	4280805.0	Worker	0.10	0.008	0.03
4776	669579.0	4280805.0	Worker	0.10	0.008	0.03
4777	669589.0	4280805.0	Worker	0.09	0.008	0.03
4778	669599.0	4280805.0	Roadway/Open Space	-	-	0.03
4779	669609.0	4280805.0	Roadway/Open Space	-	-	0.03
4780	669619.0	4280805.0	Roadway/Open Space	-	-	0.03
4781	668539.0	4280815.0	Residential	0.46	0.002	0.02
4782	668549.0	4280815.0	Residential	0.46	0.002	0.02
4783	668559.0	4280815.0	Residential	0.47	0.002	0.02
4784	668569.0	4280815.0	Residential	0.48	0.002	0.02
4785	668579.0	4280815.0	Residential	0.50	0.002	0.02
4786	668589.0	4280815.0	Residential	0.51	0.002	0.02
4787	668599.0	4280815.0	Residential	0.52	0.002	0.02
4788	668609.0	4280815.0	Residential	0.53	0.002	0.02
4789	668619.0	4280815.0	Residential	0.53	0.002	0.02
4790	668629.0	4280815.0	Residential	0.54	0.002	0.02
4791	668639.0	4280815.0	Residential	0.55	0.002	0.02
4792	668649.0	4280815.0	Roadway/Open Space	-	-	0.02
4793	668659.0	4280815.0	Residential	0.58	0.002	0.02
4794	668669.0	4280815.0	Residential	0.61	0.002	0.02
4795	668679.0	4280815.0	Residential	0.64	0.003	0.02
4796	668689.0	4280815.0	Residential	0.69	0.003	0.02
4797	668699.0	4280815.0	Residential	0.76	0.003	0.02
4798	668709.0	4280815.0	Residential	0.85	0.003	0.02
4799	668719.0	4280815.0	Residential	0.96	0.004	0.03
4800	668729.0	4280815.0	Roadway/Open Space	-	-	0.03
4801	668739.0	4280815.0	Roadway/Open Space	-	-	0.03
4802	668749.0	4280815.0	Roadway/Open Space	-	-	0.04
4803	668759.0	4280815.0	Roadway/Open Space	-	-	0.04
4804	668769.0	4280815.0	Roadway/Open Space	-	-	0.05
4805	668779.0	4280815.0	Roadway/Open Space	-	-	0.05
4806	668789.0	4280815.0	Roadway/Open Space	-	-	0.05
4807	668799.0	4280815.0	Roadway/Open Space	-	-	0.05
4808	668809.0	4280815.0	Roadway/Open Space	-	-	0.04
4809	668819.0	4280815.0	Roadway/Open Space	-	-	0.05
4810	668829.0	4280815.0	Roadway/Open Space	-	-	0.05
4811	668839.0	4280815.0	Roadway/Open Space	-	-	0.05
4812	668849.0	4280815.0	Roadway/Open Space	-	-	0.05
4813	668859.0	4280815.0	Roadway/Open Space	-	-	0.05
4814	668869.0	4280815.0	Roadway/Open Space	-	-	0.05
4815	668879.0	4280815.0	Roadway/Open Space	-	-	0.05
4816	668889.0	4280815.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4817	668899.0	4280815.0	Roadway/Open Space	-	-	0.05
4818	668909.0	4280815.0	Roadway/Open Space	-	-	0.05
4819	668919.0	4280815.0	Roadway/Open Space	-	-	0.06
4820	668929.0	4280815.0	Roadway/Open Space	-	-	0.06
4821	668939.0	4280815.0	Roadway/Open Space	-	-	0.06
4822	668949.0	4280815.0	Roadway/Open Space	-	-	0.06
4848	669209.0	4280815.0	Roadway/Open Space	-	-	0.07
4849	669219.0	4280815.0	Roadway/Open Space	-	-	0.07
4850	669229.0	4280815.0	Roadway/Open Space	-	-	0.07
4851	669239.0	4280815.0	Roadway/Open Space	-	-	0.06
4852	669249.0	4280815.0	Roadway/Open Space	-	-	0.06
4853	669259.0	4280815.0	Roadway/Open Space	-	-	0.06
4854	669269.0	4280815.0	Roadway/Open Space	-	-	0.06
4855	669279.0	4280815.0	Roadway/Open Space	-	-	0.06
4856	669289.0	4280815.0	Roadway/Open Space	-	-	0.05
4857	669299.0	4280815.0	Roadway/Open Space	-	-	0.05
4858	669309.0	4280815.0	Roadway/Open Space	-	-	0.06
4859	669319.0	4280815.0	Roadway/Open Space	-	-	0.06
4860	669329.0	4280815.0	Roadway/Open Space	-	-	0.06
4861	669339.0	4280815.0	Roadway/Open Space	-	-	0.06
4862	669349.0	4280815.0	Roadway/Open Space	-	-	0.05
4863	669359.0	4280815.0	Roadway/Open Space	-	-	0.05
4864	669369.0	4280815.0	Roadway/Open Space	-	-	0.05
4865	669379.0	4280815.0	Roadway/Open Space	-	-	0.04
4866	669389.0	4280815.0	Roadway/Open Space	-	-	0.04
4867	669399.0	4280815.0	Roadway/Open Space	-	-	0.04
4868	669409.0	4280815.0	Roadway/Open Space	-	-	0.04
4869	669419.0	4280815.0	Roadway/Open Space	-	-	0.04
4870	669429.0	4280815.0	Roadway/Open Space	-	-	0.03
4871	669439.0	4280815.0	Roadway/Open Space	-	-	0.03
4872	669449.0	4280815.0	Roadway/Open Space	-	-	0.03
4873	669459.0	4280815.0	Roadway/Open Space	-	-	0.03
4874	669469.0	4280815.0	Roadway/Open Space	-	-	0.03
4875	669479.0	4280815.0	Roadway/Open Space	-	-	0.03
4876	669489.0	4280815.0	Roadway/Open Space	-	-	0.03
4877	669499.0	4280815.0	Roadway/Open Space	-	-	0.03
4878	669509.0	4280815.0	Roadway/Open Space	-	-	0.03
4879	669519.0	4280815.0	Roadway/Open Space	-	-	0.03
4880	669529.0	4280815.0	Worker	0.13	0.010	0.03
4881	669539.0	4280815.0	Worker	0.12	0.010	0.03
4882	669549.0	4280815.0	Worker	0.11	0.009	0.02
4883	669559.0	4280815.0	Worker	0.11	0.009	0.03
4884	669569.0	4280815.0	Worker	0.10	0.008	0.03
4885	669579.0	4280815.0	Worker	0.10	0.008	0.03
4886	669589.0	4280815.0	Worker	0.09	0.008	0.03
4887	669599.0	4280815.0	Roadway/Open Space	-	-	0.03
4888	669609.0	4280815.0	Roadway/Open Space	-	-	0.03
4889	669619.0	4280815.0	Roadway/Open Space	-	-	0.03
4890	668529.0	4280825.0	Residential	0.42	0.002	0.02
4891	668539.0	4280825.0	Residential	0.43	0.002	0.02
4892	668549.0	4280825.0	Residential	0.43	0.002	0.02
4893	668559.0	4280825.0	Residential	0.44	0.002	0.02
4894	668569.0	4280825.0	Residential	0.45	0.002	0.02
4895	668579.0	4280825.0	Residential	0.47	0.002	0.02
4896	668589.0	4280825.0	Residential	0.48	0.002	0.02
4897	668599.0	4280825.0	Residential	0.49	0.002	0.02
4898	668609.0	4280825.0	Residential	0.50	0.002	0.02
4899	668619.0	4280825.0	Residential	0.51	0.002	0.02
4900	668629.0	4280825.0	Residential	0.52	0.002	0.02
4901	668639.0	4280825.0	Residential	0.53	0.002	0.02
4902	668649.0	4280825.0	Roadway/Open Space	-	-	0.01
4903	668659.0	4280825.0	Residential	0.58	0.002	0.01
4904	668669.0	4280825.0	Residential	0.60	0.002	0.02
4905	668679.0	4280825.0	Residential	0.64	0.003	0.02
4906	668689.0	4280825.0	Residential	0.70	0.003	0.02
4907	668699.0	4280825.0	Residential	0.77	0.003	0.02
4908	668709.0	4280825.0	Residential	0.87	0.004	0.02
4909	668719.0	4280825.0	Roadway/Open Space	-	-	0.03
4910	668729.0	4280825.0	Roadway/Open Space	-	-	0.03
4911	668739.0	4280825.0	Roadway/Open Space	-	-	0.04
4912	668749.0	4280825.0	Roadway/Open Space	-	-	0.04
4913	668759.0	4280825.0	Roadway/Open Space	-	-	0.05
4914	668769.0	4280825.0	Roadway/Open Space	-	-	0.05
4915	668779.0	4280825.0	Roadway/Open Space	-	-	0.05
4916	668789.0	4280825.0	Roadway/Open Space	-	-	0.05
4917	668799.0	4280825.0	Roadway/Open Space	-	-	0.05
4918	668809.0	4280825.0	Roadway/Open Space	-	-	0.05
4919	668819.0	4280825.0	Roadway/Open Space	-	-	0.05
4920	668829.0	4280825.0	Roadway/Open Space	-	-	0.05
4921	668839.0	4280825.0	Roadway/Open Space	-	-	0.05
4922	668849.0	4280825.0	Roadway/Open Space	-	-	0.05
4923	668859.0	4280825.0	Roadway/Open Space	-	-	0.05
4924	668869.0	4280825.0	Roadway/Open Space	-	-	0.05
4925	668879.0	4280825.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4926	668889.0	4280825.0	Roadway/Open Space	-	-	0.05
4927	668899.0	4280825.0	Roadway/Open Space	-	-	0.05
4928	668909.0	4280825.0	Roadway/Open Space	-	-	0.06
4929	668919.0	4280825.0	Roadway/Open Space	-	-	0.06
4930	668929.0	4280825.0	Roadway/Open Space	-	-	0.06
4931	668939.0	4280825.0	Roadway/Open Space	-	-	0.06
4958	669209.0	4280825.0	Roadway/Open Space	-	-	0.07
4959	669219.0	4280825.0	Roadway/Open Space	-	-	0.07
4960	669229.0	4280825.0	Roadway/Open Space	-	-	0.07
4961	669239.0	4280825.0	Roadway/Open Space	-	-	0.07
4962	669249.0	4280825.0	Roadway/Open Space	-	-	0.06
4963	669259.0	4280825.0	Roadway/Open Space	-	-	0.06
4964	669269.0	4280825.0	Roadway/Open Space	-	-	0.06
4965	669279.0	4280825.0	Roadway/Open Space	-	-	0.06
4966	669289.0	4280825.0	Roadway/Open Space	-	-	0.06
4967	669299.0	4280825.0	Roadway/Open Space	-	-	0.06
4968	669309.0	4280825.0	Roadway/Open Space	-	-	0.06
4969	669319.0	4280825.0	Roadway/Open Space	-	-	0.06
4970	669329.0	4280825.0	Roadway/Open Space	-	-	0.06
4971	669339.0	4280825.0	Roadway/Open Space	-	-	0.06
4972	669349.0	4280825.0	Roadway/Open Space	-	-	0.06
4973	669359.0	4280825.0	Roadway/Open Space	-	-	0.05
4974	669369.0	4280825.0	Roadway/Open Space	-	-	0.05
4975	669379.0	4280825.0	Roadway/Open Space	-	-	0.05
4976	669389.0	4280825.0	Roadway/Open Space	-	-	0.04
4977	669399.0	4280825.0	Roadway/Open Space	-	-	0.04
4978	669409.0	4280825.0	Roadway/Open Space	-	-	0.04
4979	669419.0	4280825.0	Roadway/Open Space	-	-	0.04
4980	669429.0	4280825.0	Roadway/Open Space	-	-	0.03
4981	669439.0	4280825.0	Roadway/Open Space	-	-	0.03
4982	669449.0	4280825.0	Roadway/Open Space	-	-	0.03
4983	669459.0	4280825.0	Roadway/Open Space	-	-	0.03
4984	669469.0	4280825.0	Roadway/Open Space	-	-	0.03
4985	669479.0	4280825.0	Roadway/Open Space	-	-	0.03
4986	669489.0	4280825.0	Roadway/Open Space	-	-	0.03
4987	669499.0	4280825.0	Roadway/Open Space	-	-	0.03
4988	669509.0	4280825.0	Roadway/Open Space	-	-	0.03
4989	669519.0	4280825.0	Roadway/Open Space	-	-	0.03
4990	669529.0	4280825.0	Worker	0.13	0.010	0.03
4991	669539.0	4280825.0	Worker	0.12	0.010	0.03
4992	669549.0	4280825.0	Worker	0.11	0.009	0.02
4993	669559.0	4280825.0	Worker	0.11	0.009	0.03
4994	669569.0	4280825.0	Worker	0.10	0.008	0.03
4995	669579.0	4280825.0	Worker	0.10	0.008	0.03
4996	669589.0	4280825.0	Worker	0.09	0.008	0.03
4997	669599.0	4280825.0	Roadway/Open Space	-	-	0.03
4998	669609.0	4280825.0	Roadway/Open Space	-	-	0.03
4999	669619.0	4280825.0	Roadway/Open Space	-	-	0.03
5000	668529.0	4280835.0	Residential	0.40	0.002	0.02
5001	668539.0	4280835.0	Residential	0.40	0.002	0.02
5002	668549.0	4280835.0	Residential	0.41	0.002	0.01
5003	668559.0	4280835.0	Residential	0.42	0.002	0.01
5004	668569.0	4280835.0	Residential	0.43	0.002	0.01
5005	668579.0	4280835.0	Residential	0.44	0.002	0.01
5006	668589.0	4280835.0	Residential	0.45	0.002	0.01
5007	668599.0	4280835.0	Residential	0.47	0.002	0.01
5008	668609.0	4280835.0	Residential	0.48	0.002	0.01
5009	668619.0	4280835.0	Residential	0.48	0.002	0.01
5010	668629.0	4280835.0	Residential	0.51	0.002	0.01
5011	668639.0	4280835.0	Residential	0.52	0.002	0.01
5012	668649.0	4280835.0	Roadway/Open Space	-	-	0.01
5013	668659.0	4280835.0	Residential	0.58	0.002	0.01
5014	668669.0	4280835.0	Residential	0.61	0.002	0.02
5015	668679.0	4280835.0	Residential	0.65	0.003	0.02
5016	668689.0	4280835.0	Residential	0.71	0.003	0.02
5017	668699.0	4280835.0	Residential	0.79	0.003	0.02
5018	668709.0	4280835.0	Roadway/Open Space	-	-	0.02
5019	668719.0	4280835.0	Roadway/Open Space	-	-	0.03
5020	668729.0	4280835.0	Roadway/Open Space	-	-	0.03
5021	668739.0	4280835.0	Roadway/Open Space	-	-	0.04
5022	668749.0	4280835.0	Roadway/Open Space	-	-	0.04
5023	668759.0	4280835.0	Roadway/Open Space	-	-	0.05
5024	668769.0	4280835.0	Roadway/Open Space	-	-	0.05
5025	668779.0	4280835.0	Roadway/Open Space	-	-	0.05
5026	668789.0	4280835.0	Roadway/Open Space	-	-	0.05
5027	668799.0	4280835.0	Roadway/Open Space	-	-	0.05
5028	668809.0	4280835.0	Roadway/Open Space	-	-	0.05
5029	668819.0	4280835.0	Roadway/Open Space	-	-	0.05
5030	668829.0	4280835.0	Roadway/Open Space	-	-	0.05
5031	668839.0	4280835.0	Roadway/Open Space	-	-	0.05
5032	668849.0	4280835.0	Roadway/Open Space	-	-	0.05
5033	668859.0	4280835.0	Roadway/Open Space	-	-	0.05
5034	668869.0	4280835.0	Roadway/Open Space	-	-	0.05
5035	668879.0	4280835.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5036	668889.0	4280835.0	Roadway/Open Space	-	-	0.05
5037	668899.0	4280835.0	Roadway/Open Space	-	-	0.05
5038	668909.0	4280835.0	Roadway/Open Space	-	-	0.06
5039	668919.0	4280835.0	Roadway/Open Space	-	-	0.06
5040	668929.0	4280835.0	Roadway/Open Space	-	-	0.06
5041	668939.0	4280835.0	Roadway/Open Space	-	-	0.07
5068	669209.0	4280835.0	Roadway/Open Space	-	-	0.07
5069	669219.0	4280835.0	Roadway/Open Space	-	-	0.07
5070	669229.0	4280835.0	Roadway/Open Space	-	-	0.07
5071	669239.0	4280835.0	Roadway/Open Space	-	-	0.07
5072	669249.0	4280835.0	Roadway/Open Space	-	-	0.06
5073	669259.0	4280835.0	Roadway/Open Space	-	-	0.06
5074	669269.0	4280835.0	Roadway/Open Space	-	-	0.06
5075	669279.0	4280835.0	Roadway/Open Space	-	-	0.06
5076	669289.0	4280835.0	Roadway/Open Space	-	-	0.06
5077	669299.0	4280835.0	Roadway/Open Space	-	-	0.06
5078	669309.0	4280835.0	Roadway/Open Space	-	-	0.06
5079	669319.0	4280835.0	Roadway/Open Space	-	-	0.06
5080	669329.0	4280835.0	Roadway/Open Space	-	-	0.06
5081	669339.0	4280835.0	Roadway/Open Space	-	-	0.06
5082	669349.0	4280835.0	Roadway/Open Space	-	-	0.06
5083	669359.0	4280835.0	Roadway/Open Space	-	-	0.05
5084	669369.0	4280835.0	Roadway/Open Space	-	-	0.05
5085	669379.0	4280835.0	Roadway/Open Space	-	-	0.05
5086	669389.0	4280835.0	Roadway/Open Space	-	-	0.04
5087	669399.0	4280835.0	Roadway/Open Space	-	-	0.04
5088	669409.0	4280835.0	Roadway/Open Space	-	-	0.04
5089	669419.0	4280835.0	Roadway/Open Space	-	-	0.04
5090	669429.0	4280835.0	Roadway/Open Space	-	-	0.04
5091	669439.0	4280835.0	Roadway/Open Space	-	-	0.03
5092	669449.0	4280835.0	Roadway/Open Space	-	-	0.03
5093	669459.0	4280835.0	Roadway/Open Space	-	-	0.03
5094	669469.0	4280835.0	Roadway/Open Space	-	-	0.03
5095	669479.0	4280835.0	Roadway/Open Space	-	-	0.03
5096	669489.0	4280835.0	Roadway/Open Space	-	-	0.03
5097	669499.0	4280835.0	Roadway/Open Space	-	-	0.03
5098	669509.0	4280835.0	Roadway/Open Space	-	-	0.03
5099	669519.0	4280835.0	Roadway/Open Space	-	-	0.03
5100	669529.0	4280835.0	Roadway/Open Space	-	-	0.03
5101	669539.0	4280835.0	Roadway/Open Space	-	-	0.02
5102	669549.0	4280835.0	Roadway/Open Space	-	-	0.02
5103	669559.0	4280835.0	Worker	0.11	0.009	0.03
5104	669569.0	4280835.0	Worker	0.10	0.008	0.03
5105	669579.0	4280835.0	Worker	0.10	0.008	0.03
5106	669589.0	4280835.0	Worker	0.09	0.007	0.03
5107	669599.0	4280835.0	Roadway/Open Space	-	-	0.03
5108	669609.0	4280835.0	Roadway/Open Space	-	-	0.03
5109	669619.0	4280835.0	Roadway/Open Space	-	-	0.03
5110	668529.0	4280845.0	Residential	0.38	0.002	0.01
5111	668539.0	4280845.0	Residential	0.38	0.002	0.01
5112	668549.0	4280845.0	Residential	0.39	0.002	0.01
5113	668559.0	4280845.0	Residential	0.40	0.002	0.01
5114	668569.0	4280845.0	Residential	0.41	0.002	0.01
5115	668579.0	4280845.0	Residential	0.42	0.002	0.01
5116	668589.0	4280845.0	Residential	0.43	0.002	0.01
5117	668599.0	4280845.0	Residential	0.45	0.002	0.01
5118	668609.0	4280845.0	Residential	0.46	0.002	0.01
5119	668619.0	4280845.0	Residential	0.47	0.002	0.01
5120	668629.0	4280845.0	Residential	0.51	0.002	0.01
5121	668639.0	4280845.0	Residential	0.52	0.002	0.01
5122	668649.0	4280845.0	Roadway/Open Space	-	-	0.01
5123	668659.0	4280845.0	Residential	0.58	0.002	0.02
5124	668669.0	4280845.0	Residential	0.61	0.003	0.02
5125	668679.0	4280845.0	Residential	0.66	0.003	0.02
5126	668689.0	4280845.0	Residential	0.72	0.003	0.02
5127	668699.0	4280845.0	Residential	0.80	0.003	0.02
5128	668709.0	4280845.0	Roadway/Open Space	-	-	0.02
5129	668719.0	4280845.0	Roadway/Open Space	-	-	0.03
5130	668729.0	4280845.0	Roadway/Open Space	-	-	0.03
5131	668739.0	4280845.0	Roadway/Open Space	-	-	0.04
5132	668749.0	4280845.0	Roadway/Open Space	-	-	0.04
5133	668759.0	4280845.0	Roadway/Open Space	-	-	0.05
5134	668769.0	4280845.0	Roadway/Open Space	-	-	0.05
5135	668779.0	4280845.0	Roadway/Open Space	-	-	0.05
5136	668789.0	4280845.0	Roadway/Open Space	-	-	0.06
5137	668799.0	4280845.0	Roadway/Open Space	-	-	0.05
5138	668809.0	4280845.0	Roadway/Open Space	-	-	0.05
5139	668819.0	4280845.0	Roadway/Open Space	-	-	0.05
5140	668829.0	4280845.0	Roadway/Open Space	-	-	0.05
5141	668839.0	4280845.0	Roadway/Open Space	-	-	0.05
5142	668849.0	4280845.0	Roadway/Open Space	-	-	0.05
5143	668859.0	4280845.0	Roadway/Open Space	-	-	0.05
5144	668869.0	4280845.0	Roadway/Open Space	-	-	0.05
5145	668879.0	4280845.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5146	668889.0	4280845.0	Roadway/Open Space	-	-	0.05
5147	668899.0	4280845.0	Roadway/Open Space	-	-	0.05
5148	668909.0	4280845.0	Roadway/Open Space	-	-	0.06
5149	668919.0	4280845.0	Roadway/Open Space	-	-	0.06
5150	668929.0	4280845.0	Roadway/Open Space	-	-	0.07
5177	669199.0	4280845.0	Roadway/Open Space	-	-	0.08
5178	669209.0	4280845.0	Roadway/Open Space	-	-	0.07
5179	669219.0	4280845.0	Roadway/Open Space	-	-	0.07
5180	669229.0	4280845.0	Roadway/Open Space	-	-	0.07
5181	669239.0	4280845.0	Roadway/Open Space	-	-	0.07
5182	669249.0	4280845.0	Roadway/Open Space	-	-	0.07
5183	669259.0	4280845.0	Roadway/Open Space	-	-	0.06
5184	669269.0	4280845.0	Roadway/Open Space	-	-	0.06
5185	669279.0	4280845.0	Roadway/Open Space	-	-	0.06
5186	669289.0	4280845.0	Roadway/Open Space	-	-	0.06
5187	669299.0	4280845.0	Roadway/Open Space	-	-	0.06
5188	669309.0	4280845.0	Roadway/Open Space	-	-	0.06
5189	669319.0	4280845.0	Roadway/Open Space	-	-	0.06
5190	669329.0	4280845.0	Roadway/Open Space	-	-	0.06
5191	669339.0	4280845.0	Roadway/Open Space	-	-	0.06
5192	669349.0	4280845.0	Roadway/Open Space	-	-	0.06
5193	669359.0	4280845.0	Roadway/Open Space	-	-	0.06
5194	669369.0	4280845.0	Roadway/Open Space	-	-	0.05
5195	669379.0	4280845.0	Roadway/Open Space	-	-	0.05
5196	669389.0	4280845.0	Roadway/Open Space	-	-	0.05
5197	669399.0	4280845.0	Roadway/Open Space	-	-	0.04
5198	669409.0	4280845.0	Roadway/Open Space	-	-	0.04
5199	669419.0	4280845.0	Roadway/Open Space	-	-	0.04
5200	669429.0	4280845.0	Roadway/Open Space	-	-	0.04
5201	669439.0	4280845.0	Roadway/Open Space	-	-	0.03
5202	669449.0	4280845.0	Roadway/Open Space	-	-	0.03
5203	669459.0	4280845.0	Roadway/Open Space	-	-	0.03
5204	669469.0	4280845.0	Roadway/Open Space	-	-	0.03
5205	669479.0	4280845.0	Roadway/Open Space	-	-	0.03
5206	669489.0	4280845.0	Roadway/Open Space	-	-	0.03
5207	669499.0	4280845.0	Roadway/Open Space	-	-	0.03
5208	669509.0	4280845.0	Roadway/Open Space	-	-	0.03
5209	669519.0	4280845.0	Roadway/Open Space	-	-	0.03
5210	669529.0	4280845.0	Roadway/Open Space	-	-	0.03
5211	669539.0	4280845.0	Roadway/Open Space	-	-	0.03
5212	669549.0	4280845.0	Roadway/Open Space	-	-	0.02
5213	669559.0	4280845.0	Worker	0.11	0.009	0.02
5214	669569.0	4280845.0	Worker	0.10	0.008	0.03
5215	669579.0	4280845.0	Worker	0.10	0.008	0.03
5216	669589.0	4280845.0	Worker	0.09	0.007	0.03
5217	669599.0	4280845.0	Roadway/Open Space	-	-	0.03
5218	669609.0	4280845.0	Roadway/Open Space	-	-	0.03
5219	669619.0	4280845.0	Roadway/Open Space	-	-	0.03
5220	668529.0	4280855.0	Residential	0.36	0.001	0.01
5221	668539.0	4280855.0	Residential	0.36	0.001	0.01
5222	668549.0	4280855.0	Residential	0.37	0.002	0.01
5223	668559.0	4280855.0	Residential	0.38	0.002	0.01
5224	668569.0	4280855.0	Residential	0.39	0.002	0.01
5225	668579.0	4280855.0	Residential	0.40	0.002	0.01
5226	668589.0	4280855.0	Residential	0.42	0.002	0.01
5227	668599.0	4280855.0	Residential	0.43	0.002	0.01
5228	668609.0	4280855.0	Residential	0.45	0.002	0.01
5229	668619.0	4280855.0	Residential	0.49	0.002	0.01
5230	668629.0	4280855.0	Residential	0.50	0.002	0.01
5231	668639.0	4280855.0	Residential	0.52	0.002	0.01
5232	668649.0	4280855.0	Roadway/Open Space	-	-	0.01
5233	668659.0	4280855.0	Residential	0.58	0.002	0.01
5234	668669.0	4280855.0	Residential	0.61	0.003	0.02
5235	668679.0	4280855.0	Residential	0.67	0.003	0.02
5236	668689.0	4280855.0	Residential	0.74	0.003	0.02
5237	668699.0	4280855.0	Residential	0.82	0.003	0.02
5238	668709.0	4280855.0	Roadway/Open Space	-	-	0.03
5239	668719.0	4280855.0	Roadway/Open Space	-	-	0.03
5240	668729.0	4280855.0	Roadway/Open Space	-	-	0.03
5241	668739.0	4280855.0	Roadway/Open Space	-	-	0.04
5242	668749.0	4280855.0	Roadway/Open Space	-	-	0.04
5243	668759.0	4280855.0	Roadway/Open Space	-	-	0.05
5244	668769.0	4280855.0	Roadway/Open Space	-	-	0.05
5245	668779.0	4280855.0	Roadway/Open Space	-	-	0.06
5246	668789.0	4280855.0	Roadway/Open Space	-	-	0.06
5247	668799.0	4280855.0	Roadway/Open Space	-	-	0.05
5248	668809.0	4280855.0	Roadway/Open Space	-	-	0.05
5249	668819.0	4280855.0	Roadway/Open Space	-	-	0.05
5250	668829.0	4280855.0	Roadway/Open Space	-	-	0.05
5251	668839.0	4280855.0	Roadway/Open Space	-	-	0.05
5252	668849.0	4280855.0	Roadway/Open Space	-	-	0.05
5253	668859.0	4280855.0	Roadway/Open Space	-	-	0.05
5254	668869.0	4280855.0	Roadway/Open Space	-	-	0.05
5255	668879.0	4280855.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5256	668889.0	4280855.0	Roadway/Open Space	-	-	0.05
5257	668899.0	4280855.0	Roadway/Open Space	-	-	0.06
5258	668909.0	4280855.0	Roadway/Open Space	-	-	0.06
5259	668919.0	4280855.0	Roadway/Open Space	-	-	0.07
5260	668929.0	4280855.0	Roadway/Open Space	-	-	0.07
5287	669199.0	4280855.0	Roadway/Open Space	-	-	0.08
5288	669209.0	4280855.0	Roadway/Open Space	-	-	0.08
5289	669219.0	4280855.0	Roadway/Open Space	-	-	0.07
5290	669229.0	4280855.0	Roadway/Open Space	-	-	0.07
5291	669239.0	4280855.0	Roadway/Open Space	-	-	0.07
5292	669249.0	4280855.0	Roadway/Open Space	-	-	0.07
5293	669259.0	4280855.0	Roadway/Open Space	-	-	0.06
5294	669269.0	4280855.0	Roadway/Open Space	-	-	0.06
5295	669279.0	4280855.0	Roadway/Open Space	-	-	0.06
5296	669289.0	4280855.0	Roadway/Open Space	-	-	0.06
5297	669299.0	4280855.0	Roadway/Open Space	-	-	0.06
5298	669309.0	4280855.0	Roadway/Open Space	-	-	0.06
5299	669319.0	4280855.0	Roadway/Open Space	-	-	0.06
5300	669329.0	4280855.0	Roadway/Open Space	-	-	0.06
5301	669339.0	4280855.0	Roadway/Open Space	-	-	0.06
5302	669349.0	4280855.0	Roadway/Open Space	-	-	0.06
5303	669359.0	4280855.0	Roadway/Open Space	-	-	0.06
5304	669369.0	4280855.0	Roadway/Open Space	-	-	0.06
5305	669379.0	4280855.0	Roadway/Open Space	-	-	0.05
5306	669389.0	4280855.0	Roadway/Open Space	-	-	0.05
5307	669399.0	4280855.0	Roadway/Open Space	-	-	0.04
5308	669409.0	4280855.0	Roadway/Open Space	-	-	0.04
5309	669419.0	4280855.0	Roadway/Open Space	-	-	0.04
5310	669429.0	4280855.0	Roadway/Open Space	-	-	0.04
5311	669439.0	4280855.0	Roadway/Open Space	-	-	0.03
5312	669449.0	4280855.0	Roadway/Open Space	-	-	0.03
5313	669459.0	4280855.0	Roadway/Open Space	-	-	0.03
5314	669469.0	4280855.0	Roadway/Open Space	-	-	0.03
5315	669479.0	4280855.0	Roadway/Open Space	-	-	0.03
5316	669489.0	4280855.0	Roadway/Open Space	-	-	0.03
5317	669499.0	4280855.0	Roadway/Open Space	-	-	0.03
5318	669509.0	4280855.0	Roadway/Open Space	-	-	0.03
5319	669519.0	4280855.0	Roadway/Open Space	-	-	0.03
5320	669529.0	4280855.0	Roadway/Open Space	-	-	0.03
5321	669539.0	4280855.0	Roadway/Open Space	-	-	0.03
5322	669549.0	4280855.0	Roadway/Open Space	-	-	0.02
5323	669559.0	4280855.0	Roadway/Open Space	-	-	0.02
5324	669569.0	4280855.0	Roadway/Open Space	-	-	0.03
5325	669579.0	4280855.0	Worker	0.10	0.008	0.03
5326	669589.0	4280855.0	Worker	0.09	0.007	0.03
5327	669599.0	4280855.0	Roadway/Open Space	-	-	0.03
5328	669609.0	4280855.0	Roadway/Open Space	-	-	0.03
5329	669619.0	4280855.0	Roadway/Open Space	-	-	0.03
5330	668519.0	4280865.0	Roadway/Open Space	-	-	0.01
5331	668529.0	4280865.0	Residential	0.34	0.001	0.01
5332	668539.0	4280865.0	Residential	0.35	0.001	0.01
5333	668549.0	4280865.0	Residential	0.36	0.001	0.01
5334	668559.0	4280865.0	Residential	0.37	0.002	0.01
5335	668569.0	4280865.0	Residential	0.38	0.002	0.01
5336	668579.0	4280865.0	Residential	0.39	0.002	0.01
5337	668589.0	4280865.0	Residential	0.41	0.002	0.01
5338	668599.0	4280865.0	Residential	0.42	0.002	0.01
5339	668609.0	4280865.0	Residential	0.44	0.002	0.01
5340	668619.0	4280865.0	Residential	0.48	0.002	0.01
5341	668629.0	4280865.0	Residential	0.50	0.002	0.01
5342	668639.0	4280865.0	Residential	0.52	0.002	0.01
5343	668649.0	4280865.0	Roadway/Open Space	-	-	0.01
5344	668659.0	4280865.0	Residential	0.59	0.002	0.01
5345	668669.0	4280865.0	Residential	0.62	0.003	0.02
5346	668679.0	4280865.0	Residential	0.69	0.003	0.02
5347	668689.0	4280865.0	Residential	0.76	0.003	0.02
5348	668699.0	4280865.0	Residential	0.86	0.004	0.02
5349	668709.0	4280865.0	Roadway/Open Space	-	-	0.03
5350	668719.0	4280865.0	Roadway/Open Space	-	-	0.03
5351	668729.0	4280865.0	Roadway/Open Space	-	-	0.03
5352	668739.0	4280865.0	Roadway/Open Space	-	-	0.04
5353	668749.0	4280865.0	Roadway/Open Space	-	-	0.05
5354	668759.0	4280865.0	Roadway/Open Space	-	-	0.05
5355	668769.0	4280865.0	Roadway/Open Space	-	-	0.06
5356	668779.0	4280865.0	Roadway/Open Space	-	-	0.06
5357	668789.0	4280865.0	Roadway/Open Space	-	-	0.06
5358	668799.0	4280865.0	Roadway/Open Space	-	-	0.05
5359	668809.0	4280865.0	Roadway/Open Space	-	-	0.05
5360	668819.0	4280865.0	Roadway/Open Space	-	-	0.05
5361	668829.0	4280865.0	Roadway/Open Space	-	-	0.05
5362	668839.0	4280865.0	Roadway/Open Space	-	-	0.05
5363	668849.0	4280865.0	Roadway/Open Space	-	-	0.05
5364	668859.0	4280865.0	Roadway/Open Space	-	-	0.05
5365	668869.0	4280865.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5366	668879.0	4280865.0	Roadway/Open Space	-	-	0.05
5367	668889.0	4280865.0	Roadway/Open Space	-	-	0.05
5368	668899.0	4280865.0	Roadway/Open Space	-	-	0.06
5369	668909.0	4280865.0	Roadway/Open Space	-	-	0.06
5370	668919.0	4280865.0	Roadway/Open Space	-	-	0.07
5371	668929.0	4280865.0	Roadway/Open Space	-	-	0.07
5397	669189.0	4280865.0	Roadway/Open Space	-	-	0.08
5398	669199.0	4280865.0	Roadway/Open Space	-	-	0.08
5399	669209.0	4280865.0	Roadway/Open Space	-	-	0.08
5400	669219.0	4280865.0	Roadway/Open Space	-	-	0.07
5401	669229.0	4280865.0	Roadway/Open Space	-	-	0.07
5402	669249.0	4280865.0	Roadway/Open Space	-	-	0.06
5403	669259.0	4280865.0	Roadway/Open Space	-	-	0.06
5404	669269.0	4280865.0	Roadway/Open Space	-	-	0.06
5405	669299.0	4280865.0	Roadway/Open Space	-	-	0.06
5406	669309.0	4280865.0	Roadway/Open Space	-	-	0.06
5407	669319.0	4280865.0	Roadway/Open Space	-	-	0.06
5408	669329.0	4280865.0	Roadway/Open Space	-	-	0.06
5409	669339.0	4280865.0	Roadway/Open Space	-	-	0.06
5410	669349.0	4280865.0	Roadway/Open Space	-	-	0.06
5411	669359.0	4280865.0	Roadway/Open Space	-	-	0.06
5412	669369.0	4280865.0	Roadway/Open Space	-	-	0.06
5413	669379.0	4280865.0	Roadway/Open Space	-	-	0.06
5414	669389.0	4280865.0	Roadway/Open Space	-	-	0.05
5415	669399.0	4280865.0	Roadway/Open Space	-	-	0.05
5416	669409.0	4280865.0	Roadway/Open Space	-	-	0.04
5417	669419.0	4280865.0	Roadway/Open Space	-	-	0.04
5418	669429.0	4280865.0	Roadway/Open Space	-	-	0.04
5419	669439.0	4280865.0	Roadway/Open Space	-	-	0.03
5420	669449.0	4280865.0	Roadway/Open Space	-	-	0.03
5421	669459.0	4280865.0	Roadway/Open Space	-	-	0.03
5422	669469.0	4280865.0	Roadway/Open Space	-	-	0.03
5423	669479.0	4280865.0	Roadway/Open Space	-	-	0.03
5424	669489.0	4280865.0	Roadway/Open Space	-	-	0.03
5425	669499.0	4280865.0	Roadway/Open Space	-	-	0.03
5426	669509.0	4280865.0	Roadway/Open Space	-	-	0.03
5427	669519.0	4280865.0	Roadway/Open Space	-	-	0.03
5428	669529.0	4280865.0	Roadway/Open Space	-	-	0.03
5429	669539.0	4280865.0	Roadway/Open Space	-	-	0.03
5430	669549.0	4280865.0	Roadway/Open Space	-	-	0.02
5431	669559.0	4280865.0	Roadway/Open Space	-	-	0.02
5432	669569.0	4280865.0	Roadway/Open Space	-	-	0.03
5433	669579.0	4280865.0	Roadway/Open Space	-	-	0.03
5434	669589.0	4280865.0	Roadway/Open Space	-	-	0.03
5435	669599.0	4280865.0	Roadway/Open Space	-	-	0.03
5436	669609.0	4280865.0	Roadway/Open Space	-	-	0.03
5437	668519.0	4280875.0	Residential	0.33	0.001	0.01
5438	668529.0	4280875.0	Roadway/Open Space	-	-	0.01
5439	668539.0	4280875.0	Residential	0.34	0.001	0.01
5440	668549.0	4280875.0	Residential	0.35	0.001	0.01
5441	668559.0	4280875.0	Residential	0.36	0.001	0.01
5442	668569.0	4280875.0	Residential	0.37	0.002	0.01
5443	668579.0	4280875.0	Residential	0.38	0.002	0.01
5444	668589.0	4280875.0	Residential	0.40	0.002	0.01
5445	668599.0	4280875.0	Residential	0.42	0.002	0.01
5446	668609.0	4280875.0	Residential	0.45	0.002	0.01
5447	668619.0	4280875.0	Residential	0.48	0.002	0.01
5448	668629.0	4280875.0	Residential	0.50	0.002	0.01
5449	668639.0	4280875.0	Residential	0.53	0.002	0.01
5450	668649.0	4280875.0	Roadway/Open Space	-	-	0.01
5451	668659.0	4280875.0	Residential	0.59	0.002	0.01
5452	668669.0	4280875.0	Residential	0.64	0.003	0.02
5453	668679.0	4280875.0	Residential	0.72	0.003	0.02
5454	668689.0	4280875.0	Residential	0.80	0.003	0.02
5455	668699.0	4280875.0	Residential	0.91	0.004	0.02
5456	668709.0	4280875.0	Roadway/Open Space	-	-	0.03
5457	668719.0	4280875.0	Roadway/Open Space	-	-	0.03
5458	668729.0	4280875.0	Roadway/Open Space	-	-	0.04
5459	668739.0	4280875.0	Roadway/Open Space	-	-	0.04
5460	668749.0	4280875.0	Roadway/Open Space	-	-	0.05
5461	668759.0	4280875.0	Roadway/Open Space	-	-	0.05
5462	668769.0	4280875.0	Roadway/Open Space	-	-	0.06
5463	668779.0	4280875.0	Roadway/Open Space	-	-	0.06
5464	668789.0	4280875.0	Roadway/Open Space	-	-	0.06
5465	668799.0	4280875.0	Roadway/Open Space	-	-	0.05
5466	668809.0	4280875.0	Roadway/Open Space	-	-	0.05
5467	668819.0	4280875.0	Roadway/Open Space	-	-	0.06
5468	668829.0	4280875.0	Roadway/Open Space	-	-	0.06
5469	668839.0	4280875.0	Roadway/Open Space	-	-	0.06
5470	668849.0	4280875.0	Roadway/Open Space	-	-	0.05
5471	668859.0	4280875.0	Roadway/Open Space	-	-	0.05
5472	668869.0	4280875.0	Roadway/Open Space	-	-	0.05
5473	668879.0	4280875.0	Roadway/Open Space	-	-	0.05
5474	668889.0	4280875.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5475	668899.0	4280875.0	Roadway/Open Space	-	-	0.06
5476	668909.0	4280875.0	Roadway/Open Space	-	-	0.06
5477	668919.0	4280875.0	Roadway/Open Space	-	-	0.07
5478	668929.0	4280875.0	Roadway/Open Space	-	-	0.08
5503	669179.0	4280875.0	Roadway/Open Space	-	-	0.09
5504	669189.0	4280875.0	Roadway/Open Space	-	-	0.08
5505	669199.0	4280875.0	Roadway/Open Space	-	-	0.08
5506	669209.0	4280875.0	Roadway/Open Space	-	-	0.08
5507	669219.0	4280875.0	Roadway/Open Space	-	-	0.07
5508	669299.0	4280875.0	Roadway/Open Space	-	-	0.06
5509	669309.0	4280875.0	Roadway/Open Space	-	-	0.06
5510	669319.0	4280875.0	Roadway/Open Space	-	-	0.06
5511	669329.0	4280875.0	Roadway/Open Space	-	-	0.06
5512	669339.0	4280875.0	Roadway/Open Space	-	-	0.06
5513	669349.0	4280875.0	Roadway/Open Space	-	-	0.06
5514	669359.0	4280875.0	Roadway/Open Space	-	-	0.06
5515	669369.0	4280875.0	Roadway/Open Space	-	-	0.06
5516	669379.0	4280875.0	Roadway/Open Space	-	-	0.05
5517	669389.0	4280875.0	Roadway/Open Space	-	-	0.05
5518	669399.0	4280875.0	Roadway/Open Space	-	-	0.05
5519	669409.0	4280875.0	Roadway/Open Space	-	-	0.04
5520	669419.0	4280875.0	Roadway/Open Space	-	-	0.04
5521	669429.0	4280875.0	Roadway/Open Space	-	-	0.04
5522	669439.0	4280875.0	Roadway/Open Space	-	-	0.03
5523	669449.0	4280875.0	Roadway/Open Space	-	-	0.03
5524	669459.0	4280875.0	Roadway/Open Space	-	-	0.03
5525	669469.0	4280875.0	Roadway/Open Space	-	-	0.03
5526	669479.0	4280875.0	Roadway/Open Space	-	-	0.03
5527	669489.0	4280875.0	Roadway/Open Space	-	-	0.03
5528	669499.0	4280875.0	Roadway/Open Space	-	-	0.03
5529	669509.0	4280875.0	Roadway/Open Space	-	-	0.03
5530	669519.0	4280875.0	Roadway/Open Space	-	-	0.03
5531	669529.0	4280875.0	Roadway/Open Space	-	-	0.03
5532	669539.0	4280875.0	Roadway/Open Space	-	-	0.03
5533	669549.0	4280875.0	Roadway/Open Space	-	-	0.02
5534	669559.0	4280875.0	Roadway/Open Space	-	-	0.02
5535	669569.0	4280875.0	Roadway/Open Space	-	-	0.03
5536	669579.0	4280875.0	Roadway/Open Space	-	-	0.03
5537	669589.0	4280875.0	Roadway/Open Space	-	-	0.03
5538	669599.0	4280875.0	Roadway/Open Space	-	-	0.03
5539	669609.0	4280875.0	Roadway/Open Space	-	-	0.03
5540	668519.0	4280885.0	Residential	0.32	0.001	0.01
5541	668529.0	4280885.0	Residential	0.32	0.001	0.01
5542	668539.0	4280885.0	Roadway/Open Space	-	-	0.01
5543	668549.0	4280885.0	Residential	0.34	0.001	0.01
5544	668559.0	4280885.0	Residential	0.35	0.001	0.01
5545	668569.0	4280885.0	Residential	0.37	0.002	0.01
5546	668579.0	4280885.0	Residential	0.39	0.002	0.01
5547	668589.0	4280885.0	Residential	0.41	0.002	0.01
5548	668599.0	4280885.0	Residential	0.43	0.002	0.01
5549	668609.0	4280885.0	Residential	0.46	0.002	0.01
5550	668619.0	4280885.0	Residential	0.48	0.002	0.01
5551	668629.0	4280885.0	Residential	0.51	0.002	0.01
5552	668639.0	4280885.0	Residential	0.54	0.002	0.01
5553	668649.0	4280885.0	Roadway/Open Space	-	-	0.01
5554	668659.0	4280885.0	Residential	0.60	0.002	0.01
5555	668669.0	4280885.0	Residential	0.67	0.003	0.02
5556	668679.0	4280885.0	Residential	0.75	0.003	0.02
5557	668689.0	4280885.0	Residential	0.85	0.004	0.02
5558	668699.0	4280885.0	Residential	0.98	0.004	0.03
5559	668709.0	4280885.0	Roadway/Open Space	-	-	0.03
5560	668719.0	4280885.0	Roadway/Open Space	-	-	0.04
5561	668729.0	4280885.0	Roadway/Open Space	-	-	0.04
5562	668739.0	4280885.0	Roadway/Open Space	-	-	0.05
5563	668749.0	4280885.0	Roadway/Open Space	-	-	0.05
5564	668759.0	4280885.0	Roadway/Open Space	-	-	0.06
5565	668769.0	4280885.0	Roadway/Open Space	-	-	0.06
5566	668779.0	4280885.0	Roadway/Open Space	-	-	0.06
5567	668789.0	4280885.0	Roadway/Open Space	-	-	0.05
5568	668799.0	4280885.0	Roadway/Open Space	-	-	0.06
5569	668809.0	4280885.0	Roadway/Open Space	-	-	0.06
5570	668819.0	4280885.0	Roadway/Open Space	-	-	0.06
5571	668829.0	4280885.0	Roadway/Open Space	-	-	0.06
5572	668839.0	4280885.0	Roadway/Open Space	-	-	0.06
5573	668849.0	4280885.0	Roadway/Open Space	-	-	0.05
5574	668859.0	4280885.0	Roadway/Open Space	-	-	0.05
5575	668869.0	4280885.0	Roadway/Open Space	-	-	0.05
5576	668879.0	4280885.0	Roadway/Open Space	-	-	0.06
5577	668889.0	4280885.0	Roadway/Open Space	-	-	0.06
5578	668899.0	4280885.0	Roadway/Open Space	-	-	0.06
5579	668909.0	4280885.0	Roadway/Open Space	-	-	0.07
5580	668919.0	4280885.0	Roadway/Open Space	-	-	0.07
5605	669169.0	4280885.0	Roadway/Open Space	-	-	0.10
5606	669179.0	4280885.0	Roadway/Open Space	-	-	0.09

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5607	669189.0	4280885.0	Roadway/Open Space	-	-	0.09
5608	669199.0	4280885.0	Roadway/Open Space	-	-	0.08
5609	669209.0	4280885.0	Roadway/Open Space	-	-	0.07
5610	669299.0	4280885.0	Roadway/Open Space	-	-	0.06
5611	669309.0	4280885.0	Roadway/Open Space	-	-	0.06
5612	669319.0	4280885.0	Roadway/Open Space	-	-	0.06
5613	669329.0	4280885.0	Roadway/Open Space	-	-	0.06
5614	669339.0	4280885.0	Roadway/Open Space	-	-	0.06
5615	669349.0	4280885.0	Roadway/Open Space	-	-	0.06
5616	669359.0	4280885.0	Roadway/Open Space	-	-	0.06
5617	669369.0	4280885.0	Roadway/Open Space	-	-	0.06
5618	669379.0	4280885.0	Roadway/Open Space	-	-	0.05
5619	669389.0	4280885.0	Roadway/Open Space	-	-	0.05
5620	669399.0	4280885.0	Roadway/Open Space	-	-	0.05
5621	669409.0	4280885.0	Roadway/Open Space	-	-	0.05
5622	669419.0	4280885.0	Roadway/Open Space	-	-	0.04
5623	669429.0	4280885.0	Roadway/Open Space	-	-	0.04
5624	669439.0	4280885.0	Roadway/Open Space	-	-	0.03
5625	669449.0	4280885.0	Roadway/Open Space	-	-	0.03
5626	669459.0	4280885.0	Roadway/Open Space	-	-	0.03
5627	669469.0	4280885.0	Roadway/Open Space	-	-	0.03
5628	669479.0	4280885.0	Roadway/Open Space	-	-	0.03
5629	669489.0	4280885.0	Roadway/Open Space	-	-	0.03
5630	669499.0	4280885.0	Roadway/Open Space	-	-	0.03
5631	669509.0	4280885.0	Roadway/Open Space	-	-	0.03
5632	669519.0	4280885.0	Roadway/Open Space	-	-	0.03
5633	669529.0	4280885.0	Roadway/Open Space	-	-	0.03
5634	669539.0	4280885.0	Roadway/Open Space	-	-	0.03
5635	669549.0	4280885.0	Roadway/Open Space	-	-	0.03
5636	669559.0	4280885.0	Roadway/Open Space	-	-	0.02
5637	669569.0	4280885.0	Roadway/Open Space	-	-	0.03
5638	669579.0	4280885.0	Roadway/Open Space	-	-	0.03
5639	669589.0	4280885.0	Roadway/Open Space	-	-	0.03
5640	669599.0	4280885.0	Roadway/Open Space	-	-	0.03
5641	669609.0	4280885.0	Roadway/Open Space	-	-	0.03
5642	668519.0	4280895.0	Residential	0.31	0.001	0.01
5643	668529.0	4280895.0	Residential	0.32	0.001	0.01
5644	668539.0	4280895.0	Roadway/Open Space	-	-	0.01
5645	668549.0	4280895.0	Residential	0.34	0.001	0.01
5646	668559.0	4280895.0	Residential	0.36	0.001	0.01
5647	668569.0	4280895.0	Residential	0.37	0.002	0.01
5648	668579.0	4280895.0	Residential	0.39	0.002	0.01
5649	668589.0	4280895.0	Residential	0.41	0.002	0.01
5650	668599.0	4280895.0	Residential	0.43	0.002	0.01
5651	668609.0	4280895.0	Residential	0.46	0.002	0.01
5652	668619.0	4280895.0	Residential	0.49	0.002	0.01
5653	668629.0	4280895.0	Residential	0.52	0.002	0.01
5654	668639.0	4280895.0	Residential	0.55	0.002	0.01
5655	668649.0	4280895.0	Roadway/Open Space	-	-	0.01
5656	668659.0	4280895.0	Residential	0.62	0.003	0.01
5657	668669.0	4280895.0	Residential	0.70	0.003	0.02
5658	668679.0	4280895.0	Residential	0.79	0.003	0.02
5659	668689.0	4280895.0	Residential	0.91	0.004	0.02
5660	668699.0	4280895.0	Residential	1.05	0.004	0.03
5661	668709.0	4280895.0	Roadway/Open Space	-	-	0.03
5662	668719.0	4280895.0	Roadway/Open Space	-	-	0.04
5663	668729.0	4280895.0	Roadway/Open Space	-	-	0.04
5664	668739.0	4280895.0	Roadway/Open Space	-	-	0.05
5665	668749.0	4280895.0	Roadway/Open Space	-	-	0.05
5666	668759.0	4280895.0	Roadway/Open Space	-	-	0.06
5667	668769.0	4280895.0	Roadway/Open Space	-	-	0.06
5668	668779.0	4280895.0	Roadway/Open Space	-	-	0.05
5669	668789.0	4280895.0	Roadway/Open Space	-	-	0.05
5670	668799.0	4280895.0	Roadway/Open Space	-	-	0.06
5671	668809.0	4280895.0	Roadway/Open Space	-	-	0.06
5672	668819.0	4280895.0	Roadway/Open Space	-	-	0.06
5673	668829.0	4280895.0	Roadway/Open Space	-	-	0.06
5674	668839.0	4280895.0	Roadway/Open Space	-	-	0.06
5675	668849.0	4280895.0	Roadway/Open Space	-	-	0.05
5676	668859.0	4280895.0	Roadway/Open Space	-	-	0.06
5677	668869.0	4280895.0	Roadway/Open Space	-	-	0.05
5678	668879.0	4280895.0	Roadway/Open Space	-	-	0.06
5679	668889.0	4280895.0	Roadway/Open Space	-	-	0.06
5680	668899.0	4280895.0	Roadway/Open Space	-	-	0.06
5681	668909.0	4280895.0	Roadway/Open Space	-	-	0.07
5682	668919.0	4280895.0	Roadway/Open Space	-	-	0.08
5707	669169.0	4280895.0	Roadway/Open Space	-	-	0.10
5708	669179.0	4280895.0	Roadway/Open Space	-	-	0.09
5709	669189.0	4280895.0	Roadway/Open Space	-	-	0.09
5710	669199.0	4280895.0	Roadway/Open Space	-	-	0.08
5711	669209.0	4280895.0	Roadway/Open Space	-	-	0.07
5712	669299.0	4280895.0	Roadway/Open Space	-	-	0.06
5713	669309.0	4280895.0	Roadway/Open Space	-	-	0.06
5714	669319.0	4280895.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5715	669329.0	4280895.0	Roadway/Open Space	-	-	0.06
5716	669339.0	4280895.0	Roadway/Open Space	-	-	0.06
5717	669349.0	4280895.0	Roadway/Open Space	-	-	0.06
5718	669359.0	4280895.0	Roadway/Open Space	-	-	0.06
5719	669369.0	4280895.0	Roadway/Open Space	-	-	0.06
5720	669379.0	4280895.0	Roadway/Open Space	-	-	0.05
5721	669389.0	4280895.0	Roadway/Open Space	-	-	0.05
5722	669399.0	4280895.0	Roadway/Open Space	-	-	0.05
5723	669409.0	4280895.0	Roadway/Open Space	-	-	0.05
5724	669419.0	4280895.0	Roadway/Open Space	-	-	0.04
5725	669429.0	4280895.0	Roadway/Open Space	-	-	0.04
5726	669439.0	4280895.0	Roadway/Open Space	-	-	0.03
5727	669449.0	4280895.0	Roadway/Open Space	-	-	0.03
5728	669459.0	4280895.0	Roadway/Open Space	-	-	0.03
5729	669469.0	4280895.0	Roadway/Open Space	-	-	0.03
5730	669479.0	4280895.0	Roadway/Open Space	-	-	0.03
5731	669489.0	4280895.0	Roadway/Open Space	-	-	0.03
5732	669499.0	4280895.0	Roadway/Open Space	-	-	0.03
5733	669509.0	4280895.0	Roadway/Open Space	-	-	0.03
5734	669519.0	4280895.0	Roadway/Open Space	-	-	0.03
5735	669529.0	4280895.0	Roadway/Open Space	-	-	0.03
5736	669539.0	4280895.0	Roadway/Open Space	-	-	0.03
5737	669549.0	4280895.0	Roadway/Open Space	-	-	0.03
5738	669559.0	4280895.0	Roadway/Open Space	-	-	0.02
5739	669569.0	4280895.0	Roadway/Open Space	-	-	0.03
5740	669579.0	4280895.0	Roadway/Open Space	-	-	0.03
5741	669589.0	4280895.0	Roadway/Open Space	-	-	0.03
5742	669599.0	4280895.0	Roadway/Open Space	-	-	0.03
5743	669609.0	4280895.0	Roadway/Open Space	-	-	0.03
5744	668519.0	4280905.0	Residential	0.30	0.001	0.01
5745	668529.0	4280905.0	Residential	0.31	0.001	0.01
5746	668539.0	4280905.0	Residential	0.32	0.001	0.01
5747	668549.0	4280905.0	Roadway/Open Space	-	-	0.01
5748	668559.0	4280905.0	Residential	0.36	0.001	0.01
5749	668569.0	4280905.0	Residential	0.37	0.002	0.01
5750	668579.0	4280905.0	Residential	0.39	0.002	0.01
5751	668589.0	4280905.0	Residential	0.41	0.002	0.01
5752	668599.0	4280905.0	Residential	0.44	0.002	0.01
5753	668609.0	4280905.0	Residential	0.46	0.002	0.01
5754	668619.0	4280905.0	Residential	0.49	0.002	0.01
5755	668629.0	4280905.0	Residential	0.52	0.002	0.01
5756	668639.0	4280905.0	Residential	0.54	0.002	0.01
5757	668649.0	4280905.0	Roadway/Open Space	-	-	0.01
5758	668659.0	4280905.0	Residential	0.65	0.003	0.02
5759	668669.0	4280905.0	Residential	0.73	0.003	0.02
5760	668679.0	4280905.0	Residential	0.83	0.003	0.02
5761	668689.0	4280905.0	Residential	0.97	0.004	0.03
5762	668699.0	4280905.0	Residential	1.12	0.005	0.03
5763	668709.0	4280905.0	Roadway/Open Space	-	-	0.04
5764	668719.0	4280905.0	Roadway/Open Space	-	-	0.04
5765	668729.0	4280905.0	Roadway/Open Space	-	-	0.04
5766	668739.0	4280905.0	Roadway/Open Space	-	-	0.05
5767	668749.0	4280905.0	Roadway/Open Space	-	-	0.05
5768	668759.0	4280905.0	Roadway/Open Space	-	-	0.06
5769	668769.0	4280905.0	Roadway/Open Space	-	-	0.06
5770	668779.0	4280905.0	Roadway/Open Space	-	-	0.05
5771	668789.0	4280905.0	Roadway/Open Space	-	-	0.05
5772	668799.0	4280905.0	Roadway/Open Space	-	-	0.06
5773	668809.0	4280905.0	Roadway/Open Space	-	-	0.06
5774	668819.0	4280905.0	Roadway/Open Space	-	-	0.06
5775	668829.0	4280905.0	Roadway/Open Space	-	-	0.06
5776	668839.0	4280905.0	Roadway/Open Space	-	-	0.06
5777	668849.0	4280905.0	Roadway/Open Space	-	-	0.06
5778	668859.0	4280905.0	Roadway/Open Space	-	-	0.06
5779	668869.0	4280905.0	Roadway/Open Space	-	-	0.06
5780	668879.0	4280905.0	Roadway/Open Space	-	-	0.06
5781	668889.0	4280905.0	Roadway/Open Space	-	-	0.06
5782	668899.0	4280905.0	Roadway/Open Space	-	-	0.07
5783	668909.0	4280905.0	Roadway/Open Space	-	-	0.07
5784	668919.0	4280905.0	Roadway/Open Space	-	-	0.08
5808	669159.0	4280905.0	Roadway/Open Space	-	-	0.11
5809	669169.0	4280905.0	Roadway/Open Space	-	-	0.10
5810	669179.0	4280905.0	Roadway/Open Space	-	-	0.09
5811	669189.0	4280905.0	Roadway/Open Space	-	-	0.08
5812	669199.0	4280905.0	Roadway/Open Space	-	-	0.08
5813	669299.0	4280905.0	Roadway/Open Space	-	-	0.06
5814	669309.0	4280905.0	Roadway/Open Space	-	-	0.06
5815	669319.0	4280905.0	Roadway/Open Space	-	-	0.06
5816	669329.0	4280905.0	Roadway/Open Space	-	-	0.06
5817	669339.0	4280905.0	Roadway/Open Space	-	-	0.06
5818	669349.0	4280905.0	Roadway/Open Space	-	-	0.06
5819	669359.0	4280905.0	Roadway/Open Space	-	-	0.06
5820	669369.0	4280905.0	Roadway/Open Space	-	-	0.05
5821	669379.0	4280905.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5822	669389.0	4280905.0	Roadway/Open Space	-	-	0.05
5823	669399.0	4280905.0	Roadway/Open Space	-	-	0.05
5824	669409.0	4280905.0	Roadway/Open Space	-	-	0.05
5825	669419.0	4280905.0	Roadway/Open Space	-	-	0.04
5826	669429.0	4280905.0	Roadway/Open Space	-	-	0.04
5827	669439.0	4280905.0	Roadway/Open Space	-	-	0.03
5828	669449.0	4280905.0	Roadway/Open Space	-	-	0.03
5829	669459.0	4280905.0	Roadway/Open Space	-	-	0.03
5830	669469.0	4280905.0	Roadway/Open Space	-	-	0.03
5831	669479.0	4280905.0	Roadway/Open Space	-	-	0.03
5832	669489.0	4280905.0	Roadway/Open Space	-	-	0.03
5833	669499.0	4280905.0	Roadway/Open Space	-	-	0.03
5834	669509.0	4280905.0	Roadway/Open Space	-	-	0.03
5835	669519.0	4280905.0	Roadway/Open Space	-	-	0.03
5836	669529.0	4280905.0	Roadway/Open Space	-	-	0.03
5837	669539.0	4280905.0	Roadway/Open Space	-	-	0.03
5838	669549.0	4280905.0	Roadway/Open Space	-	-	0.03
5839	669559.0	4280905.0	Roadway/Open Space	-	-	0.02
5840	669569.0	4280905.0	Roadway/Open Space	-	-	0.03
5841	669579.0	4280905.0	Roadway/Open Space	-	-	0.03
5842	669589.0	4280905.0	Roadway/Open Space	-	-	0.03
5843	669599.0	4280905.0	Roadway/Open Space	-	-	0.03
5844	668509.0	4280915.0	Residential	0.29	0.001	0.01
5845	668519.0	4280915.0	Residential	0.30	0.001	0.01
5846	668529.0	4280915.0	Residential	0.31	0.001	0.01
5847	668539.0	4280915.0	Residential	0.32	0.001	0.01
5848	668549.0	4280915.0	Roadway/Open Space	-	-	0.01
5849	668559.0	4280915.0	Residential	0.36	0.001	0.01
5850	668569.0	4280915.0	Residential	0.37	0.002	0.01
5851	668579.0	4280915.0	Residential	0.39	0.002	0.01
5852	668589.0	4280915.0	Residential	0.41	0.002	0.01
5853	668599.0	4280915.0	Residential	0.43	0.002	0.01
5854	668609.0	4280915.0	Residential	0.45	0.002	0.01
5855	668619.0	4280915.0	Residential	0.48	0.002	0.01
5856	668629.0	4280915.0	Residential	0.52	0.002	0.01
5857	668639.0	4280915.0	Residential	0.56	0.002	0.01
5858	668649.0	4280915.0	Roadway/Open Space	-	-	0.01
5859	668659.0	4280915.0	Residential	0.68	0.003	0.02
5860	668669.0	4280915.0	Residential	0.76	0.003	0.02
5861	668679.0	4280915.0	Residential	0.87	0.004	0.02
5862	668689.0	4280915.0	Residential	1.01	0.004	0.03
5863	668699.0	4280915.0	Residential	1.17	0.005	0.03
5864	668709.0	4280915.0	Roadway/Open Space	-	-	0.04
5865	668719.0	4280915.0	Roadway/Open Space	-	-	0.04
5866	668729.0	4280915.0	Roadway/Open Space	-	-	0.05
5867	668739.0	4280915.0	Roadway/Open Space	-	-	0.05
5868	668749.0	4280915.0	Roadway/Open Space	-	-	0.05
5869	668759.0	4280915.0	Roadway/Open Space	-	-	0.05
5870	668769.0	4280915.0	Roadway/Open Space	-	-	0.05
5871	668779.0	4280915.0	Roadway/Open Space	-	-	0.05
5872	668789.0	4280915.0	Roadway/Open Space	-	-	0.05
5873	668799.0	4280915.0	Roadway/Open Space	-	-	0.05
5874	668809.0	4280915.0	Roadway/Open Space	-	-	0.05
5875	668819.0	4280915.0	Roadway/Open Space	-	-	0.06
5876	668829.0	4280915.0	Roadway/Open Space	-	-	0.06
5877	668839.0	4280915.0	Roadway/Open Space	-	-	0.06
5878	668849.0	4280915.0	Roadway/Open Space	-	-	0.06
5879	668859.0	4280915.0	Roadway/Open Space	-	-	0.06
5880	668869.0	4280915.0	Roadway/Open Space	-	-	0.06
5881	668879.0	4280915.0	Roadway/Open Space	-	-	0.06
5882	668889.0	4280915.0	Roadway/Open Space	-	-	0.06
5883	668899.0	4280915.0	Roadway/Open Space	-	-	0.07
5884	668909.0	4280915.0	Roadway/Open Space	-	-	0.08
5885	668919.0	4280915.0	Roadway/Open Space	-	-	0.08
5908	669149.0	4280915.0	Roadway/Open Space	-	-	0.13
5909	669159.0	4280915.0	Roadway/Open Space	-	-	0.11
5910	669169.0	4280915.0	Roadway/Open Space	-	-	0.10
5911	669179.0	4280915.0	Roadway/Open Space	-	-	0.09
5912	669189.0	4280915.0	Roadway/Open Space	-	-	0.08
5913	669299.0	4280915.0	Roadway/Open Space	-	-	0.05
5914	669309.0	4280915.0	Roadway/Open Space	-	-	0.06
5915	669319.0	4280915.0	Roadway/Open Space	-	-	0.06
5916	669329.0	4280915.0	Roadway/Open Space	-	-	0.06
5917	669339.0	4280915.0	Roadway/Open Space	-	-	0.06
5918	669349.0	4280915.0	Roadway/Open Space	-	-	0.05
5919	669359.0	4280915.0	Roadway/Open Space	-	-	0.05
5920	669369.0	4280915.0	Roadway/Open Space	-	-	0.05
5921	669379.0	4280915.0	Roadway/Open Space	-	-	0.05
5922	669389.0	4280915.0	Roadway/Open Space	-	-	0.05
5923	669399.0	4280915.0	Roadway/Open Space	-	-	0.05
5924	669409.0	4280915.0	Roadway/Open Space	-	-	0.05
5925	669419.0	4280915.0	Roadway/Open Space	-	-	0.04
5926	669429.0	4280915.0	Roadway/Open Space	-	-	0.04
5927	669439.0	4280915.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5928	669449.0	4280915.0	Roadway/Open Space	-	-	0.03
5929	669459.0	4280915.0	Roadway/Open Space	-	-	0.03
5930	669469.0	4280915.0	Roadway/Open Space	-	-	0.03
5931	669479.0	4280915.0	Roadway/Open Space	-	-	0.03
5932	669489.0	4280915.0	Roadway/Open Space	-	-	0.03
5933	669499.0	4280915.0	Roadway/Open Space	-	-	0.03
5934	669509.0	4280915.0	Roadway/Open Space	-	-	0.03
5935	669519.0	4280915.0	Roadway/Open Space	-	-	0.03
5936	669529.0	4280915.0	Roadway/Open Space	-	-	0.03
5937	669539.0	4280915.0	Roadway/Open Space	-	-	0.03
5938	669549.0	4280915.0	Roadway/Open Space	-	-	0.03
5939	669559.0	4280915.0	Roadway/Open Space	-	-	0.03
5940	669569.0	4280915.0	Roadway/Open Space	-	-	0.03
5941	669579.0	4280915.0	Roadway/Open Space	-	-	0.03
5942	669589.0	4280915.0	Roadway/Open Space	-	-	0.03
5943	669599.0	4280915.0	Roadway/Open Space	-	-	0.03
5944	668509.0	4280925.0	Residential	0.29	0.001	0.01
5945	668519.0	4280925.0	Residential	0.29	0.001	0.01
5946	668529.0	4280925.0	Residential	0.30	0.001	0.01
5947	668539.0	4280925.0	Residential	0.32	0.001	0.01
5948	668549.0	4280925.0	Roadway/Open Space	-	-	0.01
5949	668559.0	4280925.0	Residential	0.36	0.001	0.01
5950	668569.0	4280925.0	Residential	0.38	0.002	0.01
5951	668579.0	4280925.0	Residential	0.40	0.002	0.01
5952	668589.0	4280925.0	Residential	0.40	0.002	0.01
5953	668599.0	4280925.0	Residential	0.43	0.002	0.01
5954	668609.0	4280925.0	Residential	0.46	0.002	0.01
5955	668619.0	4280925.0	Residential	0.50	0.002	0.01
5956	668629.0	4280925.0	Residential	0.53	0.002	0.01
5957	668639.0	4280925.0	Residential	0.58	0.002	0.01
5958	668649.0	4280925.0	Roadway/Open Space	-	-	0.02
5959	668659.0	4280925.0	Residential	0.72	0.003	0.02
5960	668669.0	4280925.0	Residential	0.80	0.003	0.02
5961	668679.0	4280925.0	Residential	0.92	0.004	0.02
5962	668689.0	4280925.0	Residential	1.06	0.004	0.03
5963	668699.0	4280925.0	Roadway/Open Space	-	-	0.03
5964	668709.0	4280925.0	Roadway/Open Space	-	-	0.04
5965	668719.0	4280925.0	Roadway/Open Space	-	-	0.04
5966	668729.0	4280925.0	Roadway/Open Space	-	-	0.05
5967	668739.0	4280925.0	Roadway/Open Space	-	-	0.05
5968	668749.0	4280925.0	Roadway/Open Space	-	-	0.05
5969	668759.0	4280925.0	Roadway/Open Space	-	-	0.04
5970	668769.0	4280925.0	Roadway/Open Space	-	-	0.05
5971	668779.0	4280925.0	Roadway/Open Space	-	-	0.05
5972	668789.0	4280925.0	Roadway/Open Space	-	-	0.05
5973	668799.0	4280925.0	Roadway/Open Space	-	-	0.05
5974	668809.0	4280925.0	Roadway/Open Space	-	-	0.05
5975	668819.0	4280925.0	Roadway/Open Space	-	-	0.05
5976	668829.0	4280925.0	Roadway/Open Space	-	-	0.05
5977	668839.0	4280925.0	Roadway/Open Space	-	-	0.06
5978	668849.0	4280925.0	Roadway/Open Space	-	-	0.06
5979	668859.0	4280925.0	Roadway/Open Space	-	-	0.06
5980	668869.0	4280925.0	Roadway/Open Space	-	-	0.06
5981	668879.0	4280925.0	Roadway/Open Space	-	-	0.06
5982	668889.0	4280925.0	Roadway/Open Space	-	-	0.07
5983	668899.0	4280925.0	Roadway/Open Space	-	-	0.07
5984	668909.0	4280925.0	Roadway/Open Space	-	-	0.08
6007	669139.0	4280925.0	Roadway/Open Space	-	-	0.14
6008	669149.0	4280925.0	Roadway/Open Space	-	-	0.13
6009	669159.0	4280925.0	Roadway/Open Space	-	-	0.12
6010	669169.0	4280925.0	Roadway/Open Space	-	-	0.10
6011	669179.0	4280925.0	Roadway/Open Space	-	-	0.08
6012	669299.0	4280925.0	Roadway/Open Space	-	-	0.05
6013	669309.0	4280925.0	Roadway/Open Space	-	-	0.05
6014	669319.0	4280925.0	Roadway/Open Space	-	-	0.05
6015	669329.0	4280925.0	Roadway/Open Space	-	-	0.05
6016	669339.0	4280925.0	Roadway/Open Space	-	-	0.05
6017	669349.0	4280925.0	Roadway/Open Space	-	-	0.05
6018	669359.0	4280925.0	Roadway/Open Space	-	-	0.05
6019	669369.0	4280925.0	Roadway/Open Space	-	-	0.05
6020	669379.0	4280925.0	Roadway/Open Space	-	-	0.05
6021	669389.0	4280925.0	Roadway/Open Space	-	-	0.05
6022	669399.0	4280925.0	Roadway/Open Space	-	-	0.05
6023	669409.0	4280925.0	Roadway/Open Space	-	-	0.05
6024	669419.0	4280925.0	Roadway/Open Space	-	-	0.05
6025	669429.0	4280925.0	Roadway/Open Space	-	-	0.04
6026	669439.0	4280925.0	Roadway/Open Space	-	-	0.04
6027	669449.0	4280925.0	Roadway/Open Space	-	-	0.03
6028	669459.0	4280925.0	Roadway/Open Space	-	-	0.03
6029	669469.0	4280925.0	Roadway/Open Space	-	-	0.03
6030	669479.0	4280925.0	Roadway/Open Space	-	-	0.03
6031	669489.0	4280925.0	Roadway/Open Space	-	-	0.03
6032	669499.0	4280925.0	Roadway/Open Space	-	-	0.03
6033	669509.0	4280925.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6034	669519.0	4280925.0	Roadway/Open Space	-	-	0.03
6035	669529.0	4280925.0	Roadway/Open Space	-	-	0.03
6036	669539.0	4280925.0	Roadway/Open Space	-	-	0.03
6037	669549.0	4280925.0	Roadway/Open Space	-	-	0.03
6038	669559.0	4280925.0	Roadway/Open Space	-	-	0.03
6039	669569.0	4280925.0	Roadway/Open Space	-	-	0.02
6040	669579.0	4280925.0	Roadway/Open Space	-	-	0.03
6041	669589.0	4280925.0	Roadway/Open Space	-	-	0.03
6042	668509.0	4280935.0	Residential	0.28	0.001	0.01
6043	668519.0	4280935.0	Residential	0.29	0.001	0.01
6044	668529.0	4280935.0	Residential	0.31	0.001	0.01
6045	668539.0	4280935.0	Residential	0.32	0.001	0.01
6046	668549.0	4280935.0	Roadway/Open Space	-	-	0.01
6047	668559.0	4280935.0	Residential	0.35	0.001	0.01
6048	668569.0	4280935.0	Residential	0.36	0.001	0.01
6049	668579.0	4280935.0	Residential	0.39	0.002	0.01
6050	668589.0	4280935.0	Residential	0.41	0.002	0.01
6051	668599.0	4280935.0	Residential	0.45	0.002	0.01
6052	668609.0	4280935.0	Residential	0.48	0.002	0.01
6053	668619.0	4280935.0	Residential	0.52	0.002	0.01
6054	668629.0	4280935.0	Residential	0.56	0.002	0.01
6055	668639.0	4280935.0	Residential	0.62	0.003	0.01
6056	668649.0	4280935.0	Roadway/Open Space	-	-	0.02
6057	668659.0	4280935.0	Residential	0.76	0.003	0.02
6058	668669.0	4280935.0	Residential	0.86	0.004	0.02
6059	668679.0	4280935.0	Residential	0.98	0.004	0.03
6060	668689.0	4280935.0	Residential	1.12	0.005	0.03
6061	668699.0	4280935.0	Roadway/Open Space	-	-	0.04
6062	668709.0	4280935.0	Roadway/Open Space	-	-	0.04
6063	668719.0	4280935.0	Roadway/Open Space	-	-	0.04
6064	668729.0	4280935.0	Roadway/Open Space	-	-	0.04
6065	668739.0	4280935.0	Roadway/Open Space	-	-	0.04
6066	668749.0	4280935.0	Roadway/Open Space	-	-	0.04
6067	668759.0	4280935.0	Roadway/Open Space	-	-	0.04
6068	668769.0	4280935.0	Roadway/Open Space	-	-	0.04
6069	668779.0	4280935.0	Roadway/Open Space	-	-	0.05
6070	668789.0	4280935.0	Roadway/Open Space	-	-	0.05
6071	668799.0	4280935.0	Roadway/Open Space	-	-	0.05
6072	668809.0	4280935.0	Roadway/Open Space	-	-	0.05
6073	668819.0	4280935.0	Roadway/Open Space	-	-	0.05
6074	668829.0	4280935.0	Roadway/Open Space	-	-	0.05
6075	668839.0	4280935.0	Roadway/Open Space	-	-	0.05
6076	668849.0	4280935.0	Roadway/Open Space	-	-	0.06
6077	668859.0	4280935.0	Roadway/Open Space	-	-	0.06
6078	668869.0	4280935.0	Roadway/Open Space	-	-	0.07
6079	668879.0	4280935.0	Roadway/Open Space	-	-	0.07
6080	668889.0	4280935.0	Roadway/Open Space	-	-	0.07
6081	668899.0	4280935.0	Roadway/Open Space	-	-	0.08
6082	668909.0	4280935.0	Roadway/Open Space	-	-	0.08
6103	669119.0	4280935.0	Roadway/Open Space	-	-	0.16
6104	669129.0	4280935.0	Roadway/Open Space	-	-	0.14
6105	669139.0	4280935.0	Roadway/Open Space	-	-	0.15
6106	669149.0	4280935.0	Roadway/Open Space	-	-	0.13
6107	669159.0	4280935.0	Roadway/Open Space	-	-	0.12
6108	669169.0	4280935.0	Roadway/Open Space	-	-	0.10
6109	669299.0	4280935.0	Roadway/Open Space	-	-	0.05
6110	669309.0	4280935.0	Roadway/Open Space	-	-	0.05
6111	669319.0	4280935.0	Roadway/Open Space	-	-	0.05
6112	669329.0	4280935.0	Roadway/Open Space	-	-	0.05
6113	669339.0	4280935.0	Roadway/Open Space	-	-	0.05
6114	669349.0	4280935.0	Roadway/Open Space	-	-	0.05
6115	669359.0	4280935.0	Roadway/Open Space	-	-	0.05
6116	669369.0	4280935.0	Roadway/Open Space	-	-	0.05
6117	669379.0	4280935.0	Roadway/Open Space	-	-	0.05
6118	669389.0	4280935.0	Roadway/Open Space	-	-	0.05
6119	669399.0	4280935.0	Roadway/Open Space	-	-	0.05
6120	669409.0	4280935.0	Roadway/Open Space	-	-	0.05
6121	669419.0	4280935.0	Roadway/Open Space	-	-	0.05
6122	669429.0	4280935.0	Roadway/Open Space	-	-	0.04
6123	669439.0	4280935.0	Roadway/Open Space	-	-	0.04
6124	669449.0	4280935.0	Roadway/Open Space	-	-	0.03
6125	669459.0	4280935.0	Roadway/Open Space	-	-	0.03
6126	669469.0	4280935.0	Roadway/Open Space	-	-	0.03
6127	669479.0	4280935.0	Roadway/Open Space	-	-	0.03
6128	669489.0	4280935.0	Roadway/Open Space	-	-	0.03
6129	669499.0	4280935.0	Roadway/Open Space	-	-	0.03
6130	669509.0	4280935.0	Roadway/Open Space	-	-	0.03
6131	669519.0	4280935.0	Roadway/Open Space	-	-	0.03
6132	669529.0	4280935.0	Roadway/Open Space	-	-	0.03
6133	669539.0	4280935.0	Roadway/Open Space	-	-	0.03
6134	669549.0	4280935.0	Roadway/Open Space	-	-	0.03
6135	669559.0	4280935.0	Roadway/Open Space	-	-	0.03
6136	669569.0	4280935.0	Roadway/Open Space	-	-	0.02
6137	669579.0	4280935.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6138	669589.0	4280935.0	Roadway/Open Space	-	-	0.03
6139	668509.0	4280945.0	Residential	0.28	0.001	0.01
6140	668519.0	4280945.0	Residential	0.30	0.001	0.01
6141	668529.0	4280945.0	Residential	0.31	0.001	0.01
6142	668539.0	4280945.0	Residential	0.32	0.001	0.01
6143	668549.0	4280945.0	Roadway/Open Space	-	-	0.01
6144	668559.0	4280945.0	Residential	0.35	0.001	0.01
6145	668569.0	4280945.0	Residential	0.37	0.002	0.01
6146	668579.0	4280945.0	Residential	0.40	0.002	0.01
6147	668589.0	4280945.0	Roadway/Open Space	-	-	0.01
6148	668599.0	4280945.0	Roadway/Open Space	-	-	0.01
6149	668609.0	4280945.0	Roadway/Open Space	-	-	0.01
6150	668619.0	4280945.0	Roadway/Open Space	-	-	0.02
6151	668629.0	4280945.0	Roadway/Open Space	-	-	0.02
6152	668639.0	4280945.0	Roadway/Open Space	-	-	0.02
6153	668649.0	4280945.0	Residential	0.74	0.003	0.02
6154	668659.0	4280945.0	Residential	0.82	0.003	0.02
6155	668669.0	4280945.0	Residential	0.93	0.004	0.03
6156	668679.0	4280945.0	Residential	1.05	0.004	0.03
6157	668689.0	4280945.0	Residential	1.20	0.005	0.03
6158	668699.0	4280945.0	Roadway/Open Space	-	-	0.04
6159	668709.0	4280945.0	Roadway/Open Space	-	-	0.04
6160	668719.0	4280945.0	Roadway/Open Space	-	-	0.04
6161	668729.0	4280945.0	Roadway/Open Space	-	-	0.04
6162	668739.0	4280945.0	Roadway/Open Space	-	-	0.03
6163	668749.0	4280945.0	Roadway/Open Space	-	-	0.04
6164	668759.0	4280945.0	Roadway/Open Space	-	-	0.04
6165	668769.0	4280945.0	Roadway/Open Space	-	-	0.04
6166	668779.0	4280945.0	Roadway/Open Space	-	-	0.04
6167	668789.0	4280945.0	Roadway/Open Space	-	-	0.04
6168	668799.0	4280945.0	Roadway/Open Space	-	-	0.05
6169	668809.0	4280945.0	Roadway/Open Space	-	-	0.05
6170	668819.0	4280945.0	Roadway/Open Space	-	-	0.05
6171	668829.0	4280945.0	Roadway/Open Space	-	-	0.05
6172	668839.0	4280945.0	Roadway/Open Space	-	-	0.06
6173	668849.0	4280945.0	Roadway/Open Space	-	-	0.06
6174	668859.0	4280945.0	Roadway/Open Space	-	-	0.06
6175	668869.0	4280945.0	Roadway/Open Space	-	-	0.07
6176	668879.0	4280945.0	Roadway/Open Space	-	-	0.07
6177	668889.0	4280945.0	Roadway/Open Space	-	-	0.08
6178	668899.0	4280945.0	Roadway/Open Space	-	-	0.08
6179	668909.0	4280945.0	Roadway/Open Space	-	-	0.09
6199	669109.0	4280945.0	Roadway/Open Space	-	-	0.19
6200	669119.0	4280945.0	Roadway/Open Space	-	-	0.17
6201	669129.0	4280945.0	Roadway/Open Space	-	-	0.17
6202	669139.0	4280945.0	Roadway/Open Space	-	-	0.15
6203	669149.0	4280945.0	Roadway/Open Space	-	-	0.14
6204	669159.0	4280945.0	Roadway/Open Space	-	-	0.12
6205	669299.0	4280945.0	Roadway/Open Space	-	-	0.05
6206	669309.0	4280945.0	Roadway/Open Space	-	-	0.05
6207	669319.0	4280945.0	Roadway/Open Space	-	-	0.05
6208	669329.0	4280945.0	Roadway/Open Space	-	-	0.05
6209	669339.0	4280945.0	Roadway/Open Space	-	-	0.05
6210	669349.0	4280945.0	Roadway/Open Space	-	-	0.05
6211	669359.0	4280945.0	Roadway/Open Space	-	-	0.05
6212	669369.0	4280945.0	Roadway/Open Space	-	-	0.05
6213	669379.0	4280945.0	Roadway/Open Space	-	-	0.05
6214	669389.0	4280945.0	Roadway/Open Space	-	-	0.05
6215	669399.0	4280945.0	Roadway/Open Space	-	-	0.05
6216	669409.0	4280945.0	Roadway/Open Space	-	-	0.05
6217	669419.0	4280945.0	Roadway/Open Space	-	-	0.05
6218	669429.0	4280945.0	Roadway/Open Space	-	-	0.05
6219	669439.0	4280945.0	Roadway/Open Space	-	-	0.04
6220	669449.0	4280945.0	Roadway/Open Space	-	-	0.03
6221	669459.0	4280945.0	Roadway/Open Space	-	-	0.03
6222	669469.0	4280945.0	Roadway/Open Space	-	-	0.03
6223	669479.0	4280945.0	Roadway/Open Space	-	-	0.03
6224	669489.0	4280945.0	Roadway/Open Space	-	-	0.03
6225	669499.0	4280945.0	Roadway/Open Space	-	-	0.03
6226	669509.0	4280945.0	Roadway/Open Space	-	-	0.03
6227	669519.0	4280945.0	Roadway/Open Space	-	-	0.03
6228	669529.0	4280945.0	Roadway/Open Space	-	-	0.03
6229	669539.0	4280945.0	Roadway/Open Space	-	-	0.03
6230	669549.0	4280945.0	Roadway/Open Space	-	-	0.03
6231	669559.0	4280945.0	Roadway/Open Space	-	-	0.03
6232	669569.0	4280945.0	Roadway/Open Space	-	-	0.03
6233	669579.0	4280945.0	Roadway/Open Space	-	-	0.03
6234	669589.0	4280945.0	Roadway/Open Space	-	-	0.03
6235	668509.0	4280955.0	Residential	0.29	0.001	0.01
6236	668519.0	4280955.0	Residential	0.30	0.001	0.01
6237	668529.0	4280955.0	Residential	0.31	0.001	0.01
6238	668539.0	4280955.0	Residential	0.32	0.001	0.01
6239	668549.0	4280955.0	Roadway/Open Space	-	-	0.01
6240	668559.0	4280955.0	Residential	0.36	0.001	0.01

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6241	668569.0	4280955.0	Residential	0.38	0.002	0.01
6242	668579.0	4280955.0	Residential	0.41	0.002	0.01
6243	668589.0	4280955.0	Roadway/Open Space	-	-	0.01
6244	668599.0	4280955.0	Roadway/Open Space	-	-	0.01
6245	668609.0	4280955.0	Roadway/Open Space	-	-	0.02
6246	668619.0	4280955.0	Roadway/Open Space	-	-	0.02
6247	668629.0	4280955.0	Roadway/Open Space	-	-	0.02
6248	668639.0	4280955.0	Roadway/Open Space	-	-	0.02
6249	668649.0	4280955.0	Residential	0.80	0.003	0.02
6250	668659.0	4280955.0	Residential	0.90	0.004	0.03
6251	668669.0	4280955.0	Residential	1.02	0.004	0.03
6252	668679.0	4280955.0	Residential	1.14	0.005	0.03
6253	668689.0	4280955.0	Residential	1.29	0.005	0.04
6254	668699.0	4280955.0	Roadway/Open Space	-	-	0.04
6255	668709.0	4280955.0	Roadway/Open Space	-	-	0.04
6256	668719.0	4280955.0	Roadway/Open Space	-	-	0.04
6257	668729.0	4280955.0	Roadway/Open Space	-	-	0.04
6258	668739.0	4280955.0	Roadway/Open Space	-	-	0.03
6259	668749.0	4280955.0	Roadway/Open Space	-	-	0.04
6260	668759.0	4280955.0	Roadway/Open Space	-	-	0.04
6261	668769.0	4280955.0	Roadway/Open Space	-	-	0.04
6262	668779.0	4280955.0	Roadway/Open Space	-	-	0.04
6263	668789.0	4280955.0	Roadway/Open Space	-	-	0.04
6264	668799.0	4280955.0	Roadway/Open Space	-	-	0.04
6265	668809.0	4280955.0	Roadway/Open Space	-	-	0.05
6266	668819.0	4280955.0	Roadway/Open Space	-	-	0.05
6267	668829.0	4280955.0	Roadway/Open Space	-	-	0.05
6268	668839.0	4280955.0	Roadway/Open Space	-	-	0.06
6269	668849.0	4280955.0	Roadway/Open Space	-	-	0.06
6270	668859.0	4280955.0	Roadway/Open Space	-	-	0.07
6271	668869.0	4280955.0	Roadway/Open Space	-	-	0.07
6272	668879.0	4280955.0	Roadway/Open Space	-	-	0.07
6273	668889.0	4280955.0	Roadway/Open Space	-	-	0.08
6274	668899.0	4280955.0	Roadway/Open Space	-	-	0.08
6275	668909.0	4280955.0	Roadway/Open Space	-	-	0.09
6294	669099.0	4280955.0	Roadway/Open Space	-	-	0.22
6295	669109.0	4280955.0	Roadway/Open Space	-	-	0.20
6296	669119.0	4280955.0	Roadway/Open Space	-	-	0.18
6297	669129.0	4280955.0	Roadway/Open Space	-	-	0.18
6298	669139.0	4280955.0	Roadway/Open Space	-	-	0.16
6299	669149.0	4280955.0	Roadway/Open Space	-	-	0.14
6300	669299.0	4280955.0	Roadway/Open Space	-	-	0.05
6301	669309.0	4280955.0	Roadway/Open Space	-	-	0.05
6302	669319.0	4280955.0	Roadway/Open Space	-	-	0.05
6303	669329.0	4280955.0	Roadway/Open Space	-	-	0.05
6304	669339.0	4280955.0	Roadway/Open Space	-	-	0.05
6305	669349.0	4280955.0	Roadway/Open Space	-	-	0.05
6306	669359.0	4280955.0	Roadway/Open Space	-	-	0.05
6307	669369.0	4280955.0	Roadway/Open Space	-	-	0.05
6308	669379.0	4280955.0	Roadway/Open Space	-	-	0.05
6309	669389.0	4280955.0	Roadway/Open Space	-	-	0.05
6310	669399.0	4280955.0	Roadway/Open Space	-	-	0.05
6311	669409.0	4280955.0	Roadway/Open Space	-	-	0.05
6312	669419.0	4280955.0	Roadway/Open Space	-	-	0.05
6313	669429.0	4280955.0	Roadway/Open Space	-	-	0.05
6314	669439.0	4280955.0	Roadway/Open Space	-	-	0.04
6315	669449.0	4280955.0	Roadway/Open Space	-	-	0.04
6316	669459.0	4280955.0	Roadway/Open Space	-	-	0.03
6317	669469.0	4280955.0	Roadway/Open Space	-	-	0.03
6318	669479.0	4280955.0	Roadway/Open Space	-	-	0.03
6319	669489.0	4280955.0	Roadway/Open Space	-	-	0.03
6320	669499.0	4280955.0	Roadway/Open Space	-	-	0.03
6321	669509.0	4280955.0	Roadway/Open Space	-	-	0.03
6322	669519.0	4280955.0	Roadway/Open Space	-	-	0.03
6323	669529.0	4280955.0	Roadway/Open Space	-	-	0.03
6324	669539.0	4280955.0	Roadway/Open Space	-	-	0.03
6325	669549.0	4280955.0	Roadway/Open Space	-	-	0.03
6326	669559.0	4280955.0	Roadway/Open Space	-	-	0.03
6327	669569.0	4280955.0	Roadway/Open Space	-	-	0.03
6328	669579.0	4280955.0	Roadway/Open Space	-	-	0.02
6329	669589.0	4280955.0	Roadway/Open Space	-	-	0.03
6330	668509.0	4280965.0	Residential	0.29	0.001	0.01
6331	668519.0	4280965.0	Residential	0.30	0.001	0.01
6332	668529.0	4280965.0	Residential	0.31	0.001	0.01
6333	668539.0	4280965.0	Residential	0.32	0.001	0.01
6334	668549.0	4280965.0	Roadway/Open Space	-	-	0.01
6335	668559.0	4280965.0	Residential	0.36	0.001	0.01
6336	668569.0	4280965.0	Residential	0.39	0.002	0.01
6337	668579.0	4280965.0	Residential	0.42	0.002	0.01
6338	668589.0	4280965.0	Roadway/Open Space	-	-	0.01
6339	668599.0	4280965.0	Roadway/Open Space	-	-	0.01
6340	668609.0	4280965.0	Roadway/Open Space	-	-	0.02
6341	668619.0	4280965.0	Roadway/Open Space	-	-	0.02
6342	668629.0	4280965.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6343	668639.0	4280965.0	Residential	0.78	0.003	0.02
6344	668649.0	4280965.0	Residential	0.89	0.004	0.03
6345	668659.0	4280965.0	Residential	0.99	0.004	0.03
6346	668669.0	4280965.0	Residential	1.11	0.005	0.03
6347	668679.0	4280965.0	Residential	1.24	0.005	0.04
6348	668689.0	4280965.0	Roadway/Open Space	-	-	0.04
6349	668699.0	4280965.0	Roadway/Open Space	-	-	0.04
6350	668709.0	4280965.0	Roadway/Open Space	-	-	0.04
6351	668719.0	4280965.0	Roadway/Open Space	-	-	0.04
6352	668729.0	4280965.0	Roadway/Open Space	-	-	0.03
6353	668739.0	4280965.0	Roadway/Open Space	-	-	0.04
6354	668749.0	4280965.0	Roadway/Open Space	-	-	0.04
6355	668759.0	4280965.0	Roadway/Open Space	-	-	0.04
6356	668769.0	4280965.0	Roadway/Open Space	-	-	0.04
6357	668779.0	4280965.0	Roadway/Open Space	-	-	0.04
6358	668789.0	4280965.0	Roadway/Open Space	-	-	0.04
6359	668799.0	4280965.0	Roadway/Open Space	-	-	0.04
6360	668809.0	4280965.0	Roadway/Open Space	-	-	0.05
6361	668819.0	4280965.0	Roadway/Open Space	-	-	0.05
6362	668829.0	4280965.0	Roadway/Open Space	-	-	0.05
6363	668839.0	4280965.0	Roadway/Open Space	-	-	0.06
6364	668849.0	4280965.0	Roadway/Open Space	-	-	0.06
6365	668859.0	4280965.0	Roadway/Open Space	-	-	0.07
6366	668869.0	4280965.0	Roadway/Open Space	-	-	0.07
6367	668879.0	4280965.0	Roadway/Open Space	-	-	0.07
6368	668889.0	4280965.0	Roadway/Open Space	-	-	0.08
6369	668899.0	4280965.0	Roadway/Open Space	-	-	0.08
6387	669079.0	4280965.0	Roadway/Open Space	-	-	0.25
6388	669089.0	4280965.0	Roadway/Open Space	-	-	0.25
6389	669099.0	4280965.0	Roadway/Open Space	-	-	0.23
6390	669109.0	4280965.0	Roadway/Open Space	-	-	0.21
6391	669119.0	4280965.0	Roadway/Open Space	-	-	0.19
6392	669129.0	4280965.0	Roadway/Open Space	-	-	0.19
6393	669299.0	4280965.0	Roadway/Open Space	-	-	0.05
6394	669309.0	4280965.0	Roadway/Open Space	-	-	0.05
6395	669319.0	4280965.0	Roadway/Open Space	-	-	0.05
6396	669329.0	4280965.0	Roadway/Open Space	-	-	0.05
6397	669339.0	4280965.0	Roadway/Open Space	-	-	0.05
6398	669349.0	4280965.0	Roadway/Open Space	-	-	0.05
6399	669359.0	4280965.0	Roadway/Open Space	-	-	0.05
6400	669369.0	4280965.0	Roadway/Open Space	-	-	0.05
6401	669379.0	4280965.0	Roadway/Open Space	-	-	0.05
6402	669389.0	4280965.0	Roadway/Open Space	-	-	0.05
6403	669399.0	4280965.0	Roadway/Open Space	-	-	0.05
6404	669409.0	4280965.0	Roadway/Open Space	-	-	0.05
6405	669419.0	4280965.0	Roadway/Open Space	-	-	0.05
6406	669429.0	4280965.0	Roadway/Open Space	-	-	0.05
6407	669439.0	4280965.0	Roadway/Open Space	-	-	0.04
6408	669449.0	4280965.0	Roadway/Open Space	-	-	0.04
6409	669459.0	4280965.0	Roadway/Open Space	-	-	0.03
6410	669469.0	4280965.0	Roadway/Open Space	-	-	0.03
6411	669479.0	4280965.0	Roadway/Open Space	-	-	0.03
6412	669489.0	4280965.0	Roadway/Open Space	-	-	0.03
6413	669499.0	4280965.0	Roadway/Open Space	-	-	0.03
6414	669509.0	4280965.0	Roadway/Open Space	-	-	0.03
6415	669519.0	4280965.0	Roadway/Open Space	-	-	0.03
6416	669529.0	4280965.0	Roadway/Open Space	-	-	0.03
6417	669539.0	4280965.0	Roadway/Open Space	-	-	0.03
6418	669549.0	4280965.0	Roadway/Open Space	-	-	0.03
6419	669559.0	4280965.0	Roadway/Open Space	-	-	0.03
6420	669569.0	4280965.0	Roadway/Open Space	-	-	0.03
6421	669579.0	4280965.0	Roadway/Open Space	-	-	0.02
6422	668499.0	4280975.0	Residential	0.28	0.001	0.01
6423	668509.0	4280975.0	Residential	0.29	0.001	0.01
6424	668519.0	4280975.0	Residential	0.30	0.001	0.01
6425	668529.0	4280975.0	Residential	0.31	0.001	0.01
6426	668539.0	4280975.0	Roadway/Open Space	-	-	0.01
6427	668549.0	4280975.0	Residential	0.35	0.001	0.01
6428	668559.0	4280975.0	Residential	0.37	0.002	0.01
6429	668569.0	4280975.0	Residential	0.40	0.002	0.01
6430	668579.0	4280975.0	Residential	0.44	0.002	0.01
6431	668589.0	4280975.0	Roadway/Open Space	-	-	0.01
6432	668599.0	4280975.0	Roadway/Open Space	-	-	0.02
6433	668609.0	4280975.0	Roadway/Open Space	-	-	0.02
6434	668619.0	4280975.0	Roadway/Open Space	-	-	0.02
6435	668629.0	4280975.0	Roadway/Open Space	-	-	0.02
6436	668639.0	4280975.0	Residential	0.85	0.003	0.03
6437	668649.0	4280975.0	Residential	0.97	0.004	0.03
6438	668659.0	4280975.0	Residential	1.09	0.004	0.03
6439	668669.0	4280975.0	Residential	1.21	0.005	0.04
6440	668679.0	4280975.0	Residential	1.35	0.006	0.04
6441	668689.0	4280975.0	Roadway/Open Space	-	-	0.04
6442	668699.0	4280975.0	Roadway/Open Space	-	-	0.04
6443	668709.0	4280975.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6444	668719.0	4280975.0	Roadway/Open Space	-	-	0.03
6445	668729.0	4280975.0	Roadway/Open Space	-	-	0.03
6446	668739.0	4280975.0	Roadway/Open Space	-	-	0.04
6447	668749.0	4280975.0	Roadway/Open Space	-	-	0.04
6448	668759.0	4280975.0	Roadway/Open Space	-	-	0.04
6449	668769.0	4280975.0	Roadway/Open Space	-	-	0.04
6450	668779.0	4280975.0	Roadway/Open Space	-	-	0.04
6451	668789.0	4280975.0	Roadway/Open Space	-	-	0.04
6452	668799.0	4280975.0	Roadway/Open Space	-	-	0.04
6453	668809.0	4280975.0	Roadway/Open Space	-	-	0.05
6454	668819.0	4280975.0	Roadway/Open Space	-	-	0.05
6455	668829.0	4280975.0	Roadway/Open Space	-	-	0.05
6456	668839.0	4280975.0	Roadway/Open Space	-	-	0.06
6457	668849.0	4280975.0	Roadway/Open Space	-	-	0.06
6458	668859.0	4280975.0	Roadway/Open Space	-	-	0.07
6459	668869.0	4280975.0	Roadway/Open Space	-	-	0.07
6460	668879.0	4280975.0	Roadway/Open Space	-	-	0.08
6461	668889.0	4280975.0	Roadway/Open Space	-	-	0.08
6462	668899.0	4280975.0	Roadway/Open Space	-	-	0.09
6478	669059.0	4280975.0	Roadway/Open Space	-	-	0.28
6479	669069.0	4280975.0	Roadway/Open Space	-	-	0.29
6480	669079.0	4280975.0	Roadway/Open Space	-	-	0.29
6481	669089.0	4280975.0	Roadway/Open Space	-	-	0.28
6482	669099.0	4280975.0	Roadway/Open Space	-	-	0.25
6483	669109.0	4280975.0	Roadway/Open Space	-	-	0.23
6484	669119.0	4280975.0	Roadway/Open Space	-	-	0.20
6485	669299.0	4280975.0	Roadway/Open Space	-	-	0.05
6486	669309.0	4280975.0	Roadway/Open Space	-	-	0.05
6487	669319.0	4280975.0	Roadway/Open Space	-	-	0.05
6488	669329.0	4280975.0	Roadway/Open Space	-	-	0.05
6489	669339.0	4280975.0	Roadway/Open Space	-	-	0.05
6490	669349.0	4280975.0	Roadway/Open Space	-	-	0.05
6491	669359.0	4280975.0	Roadway/Open Space	-	-	0.05
6492	669369.0	4280975.0	Roadway/Open Space	-	-	0.05
6493	669379.0	4280975.0	Roadway/Open Space	-	-	0.05
6494	669389.0	4280975.0	Roadway/Open Space	-	-	0.05
6495	669399.0	4280975.0	Roadway/Open Space	-	-	0.05
6496	669409.0	4280975.0	Roadway/Open Space	-	-	0.05
6497	669419.0	4280975.0	Roadway/Open Space	-	-	0.05
6498	669429.0	4280975.0	Roadway/Open Space	-	-	0.05
6499	669439.0	4280975.0	Roadway/Open Space	-	-	0.04
6500	669449.0	4280975.0	Roadway/Open Space	-	-	0.04
6501	669459.0	4280975.0	Roadway/Open Space	-	-	0.03
6502	669469.0	4280975.0	Roadway/Open Space	-	-	0.03
6503	669479.0	4280975.0	Roadway/Open Space	-	-	0.04
6504	669489.0	4280975.0	Roadway/Open Space	-	-	0.04
6505	669499.0	4280975.0	Roadway/Open Space	-	-	0.04
6506	669509.0	4280975.0	Roadway/Open Space	-	-	0.03
6507	669519.0	4280975.0	Roadway/Open Space	-	-	0.03
6508	669529.0	4280975.0	Roadway/Open Space	-	-	0.03
6509	669539.0	4280975.0	Roadway/Open Space	-	-	0.03
6510	669549.0	4280975.0	Roadway/Open Space	-	-	0.03
6511	669559.0	4280975.0	Roadway/Open Space	-	-	0.03
6512	669569.0	4280975.0	Roadway/Open Space	-	-	0.03
6513	669579.0	4280975.0	Roadway/Open Space	-	-	0.02
6514	668499.0	4280985.0	Residential	0.28	0.001	0.01
6515	668509.0	4280985.0	Residential	0.29	0.001	0.01
6516	668519.0	4280985.0	Residential	0.30	0.001	0.01
6517	668529.0	4280985.0	Residential	0.32	0.001	0.01
6518	668539.0	4280985.0	Roadway/Open Space	-	-	0.01
6519	668549.0	4280985.0	Residential	0.35	0.001	0.01
6520	668559.0	4280985.0	Residential	0.38	0.002	0.01
6521	668569.0	4280985.0	Residential	0.41	0.002	0.01
6522	668579.0	4280985.0	Residential	0.45	0.002	0.01
6523	668589.0	4280985.0	Roadway/Open Space	-	-	0.01
6524	668599.0	4280985.0	Roadway/Open Space	-	-	0.02
6525	668609.0	4280985.0	Roadway/Open Space	-	-	0.02
6526	668619.0	4280985.0	Roadway/Open Space	-	-	0.02
6527	668629.0	4280985.0	Residential	0.78	0.003	0.02
6528	668639.0	4280985.0	Residential	0.90	0.004	0.03
6529	668649.0	4280985.0	Residential	1.04	0.004	0.03
6530	668659.0	4280985.0	Residential	1.18	0.005	0.04
6531	668669.0	4280985.0	Residential	1.33	0.005	0.04
6532	668679.0	4280985.0	Roadway/Open Space	-	-	0.04
6533	668689.0	4280985.0	Roadway/Open Space	-	-	0.04
6534	668699.0	4280985.0	Roadway/Open Space	-	-	0.04
6535	668709.0	4280985.0	Roadway/Open Space	-	-	0.03
6536	668719.0	4280985.0	Roadway/Open Space	-	-	0.03
6537	668729.0	4280985.0	Roadway/Open Space	-	-	0.04
6538	668739.0	4280985.0	Roadway/Open Space	-	-	0.04
6539	668749.0	4280985.0	Roadway/Open Space	-	-	0.04
6540	668759.0	4280985.0	Roadway/Open Space	-	-	0.04
6541	668769.0	4280985.0	Roadway/Open Space	-	-	0.04
6542	668779.0	4280985.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6543	668789.0	4280985.0	Roadway/Open Space	-	-	0.04
6544	668799.0	4280985.0	Roadway/Open Space	-	-	0.04
6545	668809.0	4280985.0	Roadway/Open Space	-	-	0.05
6546	668819.0	4280985.0	Roadway/Open Space	-	-	0.05
6547	668829.0	4280985.0	Roadway/Open Space	-	-	0.05
6548	668839.0	4280985.0	Roadway/Open Space	-	-	0.06
6549	668849.0	4280985.0	Roadway/Open Space	-	-	0.06
6550	668859.0	4280985.0	Roadway/Open Space	-	-	0.07
6551	668869.0	4280985.0	Roadway/Open Space	-	-	0.07
6552	668879.0	4280985.0	Roadway/Open Space	-	-	0.08
6553	668889.0	4280985.0	Roadway/Open Space	-	-	0.08
6554	668899.0	4280985.0	Roadway/Open Space	-	-	0.09
6568	669039.0	4280985.0	Roadway/Open Space	-	-	0.30
6569	669049.0	4280985.0	Roadway/Open Space	-	-	0.32
6570	669059.0	4280985.0	Roadway/Open Space	-	-	0.32
6571	669069.0	4280985.0	Roadway/Open Space	-	-	0.34
6572	669079.0	4280985.0	Roadway/Open Space	-	-	0.32
6573	669089.0	4280985.0	Roadway/Open Space	-	-	0.29
6574	669099.0	4280985.0	Roadway/Open Space	-	-	0.27
6575	669109.0	4280985.0	Roadway/Open Space	-	-	0.24
6577	669299.0	4280985.0	Roadway/Open Space	-	-	0.05
6578	669309.0	4280985.0	Roadway/Open Space	-	-	0.05
6579	669319.0	4280985.0	Roadway/Open Space	-	-	0.05
6580	669329.0	4280985.0	Roadway/Open Space	-	-	0.05
6581	669339.0	4280985.0	Roadway/Open Space	-	-	0.05
6582	669349.0	4280985.0	Roadway/Open Space	-	-	0.06
6583	669359.0	4280985.0	Roadway/Open Space	-	-	0.06
6584	669369.0	4280985.0	Roadway/Open Space	-	-	0.06
6585	669379.0	4280985.0	Roadway/Open Space	-	-	0.06
6586	669389.0	4280985.0	Roadway/Open Space	-	-	0.05
6587	669399.0	4280985.0	Roadway/Open Space	-	-	0.05
6588	669409.0	4280985.0	Roadway/Open Space	-	-	0.05
6589	669419.0	4280985.0	Roadway/Open Space	-	-	0.05
6590	669429.0	4280985.0	Roadway/Open Space	-	-	0.05
6591	669439.0	4280985.0	Roadway/Open Space	-	-	0.04
6592	669449.0	4280985.0	Roadway/Open Space	-	-	0.04
6593	669459.0	4280985.0	Roadway/Open Space	-	-	0.03
6594	669469.0	4280985.0	Roadway/Open Space	-	-	0.04
6595	669479.0	4280985.0	Roadway/Open Space	-	-	0.04
6596	669489.0	4280985.0	Roadway/Open Space	-	-	0.04
6597	669499.0	4280985.0	Roadway/Open Space	-	-	0.04
6598	669509.0	4280985.0	Roadway/Open Space	-	-	0.04
6599	669519.0	4280985.0	Roadway/Open Space	-	-	0.03
6600	669529.0	4280985.0	Roadway/Open Space	-	-	0.03
6601	669539.0	4280985.0	Roadway/Open Space	-	-	0.03
6602	669549.0	4280985.0	Roadway/Open Space	-	-	0.03
6603	669559.0	4280985.0	Roadway/Open Space	-	-	0.03
6604	669569.0	4280985.0	Roadway/Open Space	-	-	0.03
6605	668499.0	4280995.0	Residential	0.28	0.001	0.01
6606	668509.0	4280995.0	Residential	0.30	0.001	0.01
6607	668519.0	4280995.0	Residential	0.30	0.001	0.01
6608	668529.0	4280995.0	Roadway/Open Space	-	-	0.01
6609	668539.0	4280995.0	Residential	0.34	0.001	0.01
6610	668549.0	4280995.0	Residential	0.36	0.001	0.01
6611	668559.0	4280995.0	Residential	0.39	0.002	0.01
6612	668569.0	4280995.0	Residential	0.42	0.002	0.01
6613	668579.0	4280995.0	Roadway/Open Space	-	-	0.01
6614	668589.0	4280995.0	Roadway/Open Space	-	-	0.01
6615	668599.0	4280995.0	Roadway/Open Space	-	-	0.02
6616	668609.0	4280995.0	Roadway/Open Space	-	-	0.02
6617	668619.0	4280995.0	Roadway/Open Space	-	-	0.02
6618	668629.0	4280995.0	Residential	0.79	0.003	0.02
6619	668639.0	4280995.0	Residential	0.92	0.004	0.03
6620	668649.0	4280995.0	Residential	1.08	0.004	0.03
6621	668659.0	4280995.0	Residential	1.27	0.005	0.04
6622	668669.0	4280995.0	Residential	1.45	0.006	0.04
6623	668679.0	4280995.0	Roadway/Open Space	-	-	0.04
6624	668689.0	4280995.0	Roadway/Open Space	-	-	0.04
6625	668699.0	4280995.0	Roadway/Open Space	-	-	0.03
6626	668709.0	4280995.0	Roadway/Open Space	-	-	0.03
6627	668719.0	4280995.0	Roadway/Open Space	-	-	0.04
6628	668729.0	4280995.0	Roadway/Open Space	-	-	0.04
6629	668739.0	4280995.0	Roadway/Open Space	-	-	0.04
6630	668749.0	4280995.0	Roadway/Open Space	-	-	0.04
6631	668759.0	4280995.0	Roadway/Open Space	-	-	0.04
6632	668769.0	4280995.0	Roadway/Open Space	-	-	0.04
6633	668779.0	4280995.0	Roadway/Open Space	-	-	0.04
6634	668789.0	4280995.0	Roadway/Open Space	-	-	0.04
6635	668799.0	4280995.0	Roadway/Open Space	-	-	0.05
6636	668809.0	4280995.0	Roadway/Open Space	-	-	0.05
6637	668819.0	4280995.0	Roadway/Open Space	-	-	0.05
6638	668829.0	4280995.0	Roadway/Open Space	-	-	0.05
6639	668839.0	4280995.0	Roadway/Open Space	-	-	0.06
6640	668849.0	4280995.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6641	668859.0	4280995.0	Roadway/Open Space	-	-	0.07
6642	668869.0	4280995.0	Roadway/Open Space	-	-	0.07
6643	668879.0	4280995.0	Roadway/Open Space	-	-	0.08
6644	668889.0	4280995.0	Roadway/Open Space	-	-	0.08
6645	668899.0	4280995.0	Roadway/Open Space	-	-	0.09
6657	669019.0	4280995.0	Roadway/Open Space	-	-	0.32
6658	669029.0	4280995.0	Roadway/Open Space	-	-	0.32
6659	669039.0	4280995.0	Roadway/Open Space	-	-	0.34
6660	669049.0	4280995.0	Roadway/Open Space	-	-	0.36
6661	669059.0	4280995.0	Roadway/Open Space	-	-	0.37
6662	669069.0	4280995.0	Roadway/Open Space	-	-	0.40
6663	669079.0	4280995.0	Roadway/Open Space	-	-	0.36
6664	669089.0	4280995.0	Roadway/Open Space	-	-	0.33
6668	669299.0	4280995.0	Roadway/Open Space	-	-	0.05
6669	669309.0	4280995.0	Roadway/Open Space	-	-	0.05
6670	669319.0	4280995.0	Roadway/Open Space	-	-	0.06
6671	669329.0	4280995.0	Roadway/Open Space	-	-	0.06
6672	669339.0	4280995.0	Roadway/Open Space	-	-	0.06
6673	669349.0	4280995.0	Roadway/Open Space	-	-	0.06
6674	669359.0	4280995.0	Roadway/Open Space	-	-	0.06
6675	669369.0	4280995.0	Roadway/Open Space	-	-	0.06
6676	669379.0	4280995.0	Roadway/Open Space	-	-	0.06
6677	669389.0	4280995.0	Roadway/Open Space	-	-	0.05
6678	669399.0	4280995.0	Roadway/Open Space	-	-	0.05
6679	669409.0	4280995.0	Roadway/Open Space	-	-	0.05
6680	669419.0	4280995.0	Roadway/Open Space	-	-	0.05
6681	669429.0	4280995.0	Roadway/Open Space	-	-	0.05
6682	669439.0	4280995.0	Roadway/Open Space	-	-	0.04
6683	669449.0	4280995.0	Roadway/Open Space	-	-	0.04
6684	669459.0	4280995.0	Roadway/Open Space	-	-	0.04
6685	669469.0	4280995.0	Roadway/Open Space	-	-	0.04
6686	669479.0	4280995.0	Roadway/Open Space	-	-	0.04
6687	669489.0	4280995.0	Roadway/Open Space	-	-	0.04
6688	669499.0	4280995.0	Roadway/Open Space	-	-	0.04
6689	669509.0	4280995.0	Roadway/Open Space	-	-	0.04
6690	669519.0	4280995.0	Roadway/Open Space	-	-	0.03
6691	669529.0	4280995.0	Roadway/Open Space	-	-	0.03
6692	669539.0	4280995.0	Roadway/Open Space	-	-	0.03
6693	669549.0	4280995.0	Roadway/Open Space	-	-	0.03
6694	669559.0	4280995.0	Roadway/Open Space	-	-	0.03
6695	669569.0	4280995.0	Roadway/Open Space	-	-	0.03
6696	668499.0	4281005.0	Residential	0.27	0.001	0.01
6697	668509.0	4281005.0	Residential	0.29	0.001	0.01
6698	668519.0	4281005.0	Roadway/Open Space	-	-	0.01
6699	668529.0	4281005.0	Residential	0.32	0.001	0.01
6700	668539.0	4281005.0	Residential	0.35	0.001	0.01
6701	668549.0	4281005.0	Residential	0.37	0.002	0.01
6702	668559.0	4281005.0	Residential	0.40	0.002	0.01
6703	668569.0	4281005.0	Residential	0.43	0.002	0.01
6704	668579.0	4281005.0	Roadway/Open Space	-	-	0.01
6705	668589.0	4281005.0	Roadway/Open Space	-	-	0.01
6706	668599.0	4281005.0	Roadway/Open Space	-	-	0.02
6707	668609.0	4281005.0	Roadway/Open Space	-	-	0.02
6708	668619.0	4281005.0	Residential	0.70	0.003	0.02
6709	668629.0	4281005.0	Residential	0.81	0.003	0.03
6710	668639.0	4281005.0	Residential	0.94	0.004	0.03
6711	668649.0	4281005.0	Residential	1.11	0.005	0.04
6712	668659.0	4281005.0	Residential	1.32	0.005	0.04
6713	668669.0	4281005.0	Roadway/Open Space	-	-	0.04
6714	668679.0	4281005.0	Roadway/Open Space	-	-	0.04
6715	668689.0	4281005.0	Roadway/Open Space	-	-	0.03
6716	668699.0	4281005.0	Roadway/Open Space	-	-	0.03
6717	668709.0	4281005.0	Roadway/Open Space	-	-	0.03
6718	668719.0	4281005.0	Roadway/Open Space	-	-	0.03
6719	668729.0	4281005.0	Roadway/Open Space	-	-	0.04
6720	668739.0	4281005.0	Roadway/Open Space	-	-	0.04
6721	668749.0	4281005.0	Roadway/Open Space	-	-	0.04
6722	668759.0	4281005.0	Roadway/Open Space	-	-	0.04
6723	668769.0	4281005.0	Roadway/Open Space	-	-	0.04
6724	668779.0	4281005.0	Roadway/Open Space	-	-	0.04
6725	668789.0	4281005.0	Roadway/Open Space	-	-	0.04
6726	668799.0	4281005.0	Roadway/Open Space	-	-	0.05
6727	668809.0	4281005.0	Roadway/Open Space	-	-	0.05
6728	668819.0	4281005.0	Roadway/Open Space	-	-	0.05
6729	668829.0	4281005.0	Roadway/Open Space	-	-	0.06
6730	668839.0	4281005.0	Roadway/Open Space	-	-	0.06
6731	668849.0	4281005.0	Roadway/Open Space	-	-	0.06
6732	668859.0	4281005.0	Roadway/Open Space	-	-	0.07
6733	668869.0	4281005.0	Roadway/Open Space	-	-	0.07
6734	668879.0	4281005.0	Roadway/Open Space	-	-	0.07
6735	668889.0	4281005.0	Roadway/Open Space	-	-	0.08
6736	668899.0	4281005.0	Roadway/Open Space	-	-	0.09
6745	668989.0	4281005.0	Roadway/Open Space	-	-	0.27
6746	668999.0	4281005.0	Roadway/Open Space	-	-	0.32

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6747	669009.0	4281005.0	Roadway/Open Space	-	-	0.35
6748	669019.0	4281005.0	Roadway/Open Space	-	-	0.36
6749	669029.0	4281005.0	Roadway/Open Space	-	-	0.38
6750	669039.0	4281005.0	Roadway/Open Space	-	-	0.40
6751	669049.0	4281005.0	Roadway/Open Space	-	-	0.42
6752	669059.0	4281005.0	Roadway/Open Space	-	-	0.44
6753	669069.0	4281005.0	Roadway/Open Space	-	-	0.46
6760	669299.0	4281005.0	Roadway/Open Space	-	-	0.06
6761	669309.0	4281005.0	Roadway/Open Space	-	-	0.06
6762	669319.0	4281005.0	Roadway/Open Space	-	-	0.06
6763	669329.0	4281005.0	Roadway/Open Space	-	-	0.06
6764	669339.0	4281005.0	Roadway/Open Space	-	-	0.06
6765	669349.0	4281005.0	Roadway/Open Space	-	-	0.06
6766	669359.0	4281005.0	Roadway/Open Space	-	-	0.06
6767	669369.0	4281005.0	Roadway/Open Space	-	-	0.06
6768	669379.0	4281005.0	Roadway/Open Space	-	-	0.06
6769	669389.0	4281005.0	Roadway/Open Space	-	-	0.06
6770	669399.0	4281005.0	Roadway/Open Space	-	-	0.05
6771	669409.0	4281005.0	Roadway/Open Space	-	-	0.05
6772	669419.0	4281005.0	Roadway/Open Space	-	-	0.05
6773	669429.0	4281005.0	Roadway/Open Space	-	-	0.05
6774	669439.0	4281005.0	Roadway/Open Space	-	-	0.04
6775	669449.0	4281005.0	Roadway/Open Space	-	-	0.04
6776	669459.0	4281005.0	Roadway/Open Space	-	-	0.04
6777	669469.0	4281005.0	Roadway/Open Space	-	-	0.04
6778	669479.0	4281005.0	Roadway/Open Space	-	-	0.04
6779	669489.0	4281005.0	Roadway/Open Space	-	-	0.04
6780	669499.0	4281005.0	Roadway/Open Space	-	-	0.04
6781	669509.0	4281005.0	Roadway/Open Space	-	-	0.04
6782	669519.0	4281005.0	Roadway/Open Space	-	-	0.04
6783	669529.0	4281005.0	Roadway/Open Space	-	-	0.03
6784	669539.0	4281005.0	Roadway/Open Space	-	-	0.03
6785	669549.0	4281005.0	Roadway/Open Space	-	-	0.03
6786	669559.0	4281005.0	Roadway/Open Space	-	-	0.03
6787	668499.0	4281015.0	Residential	0.28	0.001	0.01
6788	668509.0	4281015.0	Roadway/Open Space	-	-	0.01
6789	668519.0	4281015.0	Roadway/Open Space	-	-	0.01
6790	668529.0	4281015.0	Residential	0.33	0.001	0.01
6791	668539.0	4281015.0	Residential	0.35	0.001	0.01
6792	668549.0	4281015.0	Residential	0.38	0.002	0.01
6793	668559.0	4281015.0	Residential	0.41	0.002	0.01
6794	668569.0	4281015.0	Residential	0.44	0.002	0.01
6795	668579.0	4281015.0	Roadway/Open Space	-	-	0.01
6796	668589.0	4281015.0	Roadway/Open Space	-	-	0.01
6797	668599.0	4281015.0	Roadway/Open Space	-	-	0.02
6798	668609.0	4281015.0	Roadway/Open Space	-	-	0.02
6799	668619.0	4281015.0	Residential	0.72	0.003	0.02
6800	668629.0	4281015.0	Residential	0.82	0.003	0.02
6801	668639.0	4281015.0	Residential	0.96	0.004	0.03
6802	668649.0	4281015.0	Residential	1.14	0.005	0.04
6803	668659.0	4281015.0	Residential	1.35	0.006	0.04
6804	668669.0	4281015.0	Roadway/Open Space	-	-	0.04
6805	668679.0	4281015.0	Roadway/Open Space	-	-	0.04
6806	668689.0	4281015.0	Roadway/Open Space	-	-	0.03
6807	668699.0	4281015.0	Roadway/Open Space	-	-	0.03
6808	668709.0	4281015.0	Roadway/Open Space	-	-	0.03
6809	668719.0	4281015.0	Roadway/Open Space	-	-	0.03
6810	668729.0	4281015.0	Roadway/Open Space	-	-	0.03
6811	668739.0	4281015.0	Roadway/Open Space	-	-	0.04
6812	668749.0	4281015.0	Roadway/Open Space	-	-	0.04
6813	668759.0	4281015.0	Roadway/Open Space	-	-	0.04
6814	668769.0	4281015.0	Roadway/Open Space	-	-	0.04
6815	668779.0	4281015.0	Roadway/Open Space	-	-	0.04
6816	668789.0	4281015.0	Roadway/Open Space	-	-	0.05
6817	668799.0	4281015.0	Roadway/Open Space	-	-	0.05
6818	668809.0	4281015.0	Roadway/Open Space	-	-	0.05
6819	668819.0	4281015.0	Roadway/Open Space	-	-	0.06
6820	668829.0	4281015.0	Roadway/Open Space	-	-	0.06
6821	668839.0	4281015.0	Roadway/Open Space	-	-	0.06
6822	668849.0	4281015.0	Roadway/Open Space	-	-	0.07
6823	668859.0	4281015.0	Roadway/Open Space	-	-	0.07
6824	668869.0	4281015.0	Roadway/Open Space	-	-	0.07
6825	668879.0	4281015.0	Roadway/Open Space	-	-	0.07
6826	668889.0	4281015.0	Roadway/Open Space	-	-	0.08
6834	668969.0	4281015.0	Roadway/Open Space	-	-	0.23
6835	668979.0	4281015.0	Roadway/Open Space	-	-	0.24
6836	668989.0	4281015.0	Roadway/Open Space	-	-	0.26
6837	668999.0	4281015.0	Roadway/Open Space	-	-	0.31
6838	669009.0	4281015.0	Roadway/Open Space	-	-	0.39
6839	669019.0	4281015.0	Roadway/Open Space	-	-	0.42
6840	669029.0	4281015.0	Roadway/Open Space	-	-	0.43
6841	669039.0	4281015.0	Roadway/Open Space	-	-	0.47
6842	669049.0	4281015.0	Roadway/Open Space	-	-	0.47
6851	669299.0	4281015.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6852	669309.0	4281015.0	Roadway/Open Space	-	-	0.06
6853	669319.0	4281015.0	Roadway/Open Space	-	-	0.06
6854	669329.0	4281015.0	Roadway/Open Space	-	-	0.06
6855	669339.0	4281015.0	Roadway/Open Space	-	-	0.06
6856	669349.0	4281015.0	Roadway/Open Space	-	-	0.06
6857	669359.0	4281015.0	Roadway/Open Space	-	-	0.06
6858	669369.0	4281015.0	Roadway/Open Space	-	-	0.06
6859	669379.0	4281015.0	Roadway/Open Space	-	-	0.06
6860	669389.0	4281015.0	Roadway/Open Space	-	-	0.06
6861	669399.0	4281015.0	Roadway/Open Space	-	-	0.05
6862	669409.0	4281015.0	Roadway/Open Space	-	-	0.05
6863	669419.0	4281015.0	Roadway/Open Space	-	-	0.05
6864	669429.0	4281015.0	Roadway/Open Space	-	-	0.05
6865	669439.0	4281015.0	Roadway/Open Space	-	-	0.05
6866	669449.0	4281015.0	Roadway/Open Space	-	-	0.04
6867	669459.0	4281015.0	Roadway/Open Space	-	-	0.04
6868	669469.0	4281015.0	Roadway/Open Space	-	-	0.04
6869	669479.0	4281015.0	Roadway/Open Space	-	-	0.04
6870	669489.0	4281015.0	Roadway/Open Space	-	-	0.04
6871	669499.0	4281015.0	Roadway/Open Space	-	-	0.04
6872	669509.0	4281015.0	Roadway/Open Space	-	-	0.04
6873	669519.0	4281015.0	Roadway/Open Space	-	-	0.04
6874	669529.0	4281015.0	Roadway/Open Space	-	-	0.04
6875	669539.0	4281015.0	Roadway/Open Space	-	-	0.03
6876	669549.0	4281015.0	Roadway/Open Space	-	-	0.03
6877	669559.0	4281015.0	Roadway/Open Space	-	-	0.03
6878	668499.0	4281025.0	Residential	0.28	0.001	0.01
6879	668509.0	4281025.0	Roadway/Open Space	-	-	0.01
6880	668519.0	4281025.0	Residential	0.32	0.001	0.01
6881	668529.0	4281025.0	Residential	0.34	0.001	0.01
6882	668539.0	4281025.0	Residential	0.36	0.001	0.01
6883	668549.0	4281025.0	Residential	0.39	0.002	0.01
6884	668559.0	4281025.0	Residential	0.42	0.002	0.01
6885	668569.0	4281025.0	Roadway/Open Space	-	-	0.01
6886	668579.0	4281025.0	Roadway/Open Space	-	-	0.01
6887	668589.0	4281025.0	Roadway/Open Space	-	-	0.01
6888	668599.0	4281025.0	Roadway/Open Space	-	-	0.02
6889	668609.0	4281025.0	Residential	0.66	0.003	0.02
6890	668619.0	4281025.0	Residential	0.74	0.003	0.02
6891	668629.0	4281025.0	Residential	0.85	0.004	0.03
6892	668639.0	4281025.0	Residential	0.99	0.004	0.03
6893	668649.0	4281025.0	Residential	1.16	0.005	0.04
6894	668659.0	4281025.0	Roadway/Open Space	-	-	0.04
6895	668669.0	4281025.0	Roadway/Open Space	-	-	0.04
6896	668679.0	4281025.0	Roadway/Open Space	-	-	0.04
6897	668689.0	4281025.0	Roadway/Open Space	-	-	0.03
6898	668699.0	4281025.0	Roadway/Open Space	-	-	0.03
6899	668709.0	4281025.0	Roadway/Open Space	-	-	0.03
6900	668719.0	4281025.0	Roadway/Open Space	-	-	0.03
6901	668729.0	4281025.0	Roadway/Open Space	-	-	0.03
6902	668739.0	4281025.0	Roadway/Open Space	-	-	0.04
6903	668749.0	4281025.0	Roadway/Open Space	-	-	0.04
6904	668759.0	4281025.0	Roadway/Open Space	-	-	0.04
6905	668769.0	4281025.0	Roadway/Open Space	-	-	0.04
6906	668779.0	4281025.0	Roadway/Open Space	-	-	0.05
6907	668789.0	4281025.0	Roadway/Open Space	-	-	0.05
6908	668799.0	4281025.0	Roadway/Open Space	-	-	0.05
6909	668809.0	4281025.0	Roadway/Open Space	-	-	0.05
6910	668819.0	4281025.0	Roadway/Open Space	-	-	0.06
6911	668829.0	4281025.0	Roadway/Open Space	-	-	0.06
6912	668839.0	4281025.0	Roadway/Open Space	-	-	0.06
6913	668849.0	4281025.0	Roadway/Open Space	-	-	0.07
6914	668859.0	4281025.0	Roadway/Open Space	-	-	0.07
6915	668869.0	4281025.0	Roadway/Open Space	-	-	0.07
6916	668879.0	4281025.0	Roadway/Open Space	-	-	0.08
6917	668889.0	4281025.0	Roadway/Open Space	-	-	0.08
6922	668939.0	4281025.0	Roadway/Open Space	-	-	0.15
6923	668949.0	4281025.0	Roadway/Open Space	-	-	0.18
6924	668959.0	4281025.0	Roadway/Open Space	-	-	0.21
6925	668969.0	4281025.0	Roadway/Open Space	-	-	0.24
6926	668979.0	4281025.0	Roadway/Open Space	-	-	0.27
6927	668989.0	4281025.0	Roadway/Open Space	-	-	0.30
6928	668999.0	4281025.0	Roadway/Open Space	-	-	0.32
6929	669009.0	4281025.0	Roadway/Open Space	-	-	0.39
6930	669019.0	4281025.0	Roadway/Open Space	-	-	0.45
6931	669029.0	4281025.0	Roadway/Open Space	-	-	0.50
6942	669299.0	4281025.0	Roadway/Open Space	-	-	0.06
6943	669309.0	4281025.0	Roadway/Open Space	-	-	0.06
6944	669319.0	4281025.0	Roadway/Open Space	-	-	0.06
6945	669329.0	4281025.0	Roadway/Open Space	-	-	0.06
6946	669339.0	4281025.0	Roadway/Open Space	-	-	0.06
6947	669349.0	4281025.0	Roadway/Open Space	-	-	0.06
6948	669359.0	4281025.0	Roadway/Open Space	-	-	0.06
6949	669369.0	4281025.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6950	669379.0	4281025.0	Roadway/Open Space	-	-	0.06
6951	669389.0	4281025.0	Roadway/Open Space	-	-	0.06
6952	669399.0	4281025.0	Roadway/Open Space	-	-	0.05
6953	669409.0	4281025.0	Roadway/Open Space	-	-	0.05
6954	669419.0	4281025.0	Roadway/Open Space	-	-	0.05
6955	669429.0	4281025.0	Roadway/Open Space	-	-	0.05
6956	669439.0	4281025.0	Roadway/Open Space	-	-	0.05
6957	669449.0	4281025.0	Roadway/Open Space	-	-	0.04
6958	669459.0	4281025.0	Roadway/Open Space	-	-	0.04
6959	669469.0	4281025.0	Roadway/Open Space	-	-	0.04
6960	669479.0	4281025.0	Roadway/Open Space	-	-	0.04
6961	669489.0	4281025.0	Roadway/Open Space	-	-	0.04
6962	669499.0	4281025.0	Roadway/Open Space	-	-	0.04
6963	669509.0	4281025.0	Roadway/Open Space	-	-	0.04
6964	669519.0	4281025.0	Roadway/Open Space	-	-	0.04
6965	669529.0	4281025.0	Roadway/Open Space	-	-	0.04
6966	669539.0	4281025.0	Roadway/Open Space	-	-	0.03
6967	669549.0	4281025.0	Roadway/Open Space	-	-	0.03
6968	668499.0	4281035.0	Roadway/Open Space	-	-	0.01
6969	668509.0	4281035.0	Residential	0.30	0.001	0.01
6970	668519.0	4281035.0	Residential	0.32	0.001	0.01
6971	668529.0	4281035.0	Residential	0.34	0.001	0.01
6972	668539.0	4281035.0	Residential	0.37	0.002	0.01
6973	668549.0	4281035.0	Residential	0.40	0.002	0.01
6974	668559.0	4281035.0	Roadway/Open Space	-	-	0.01
6975	668569.0	4281035.0	Roadway/Open Space	-	-	0.01
6976	668579.0	4281035.0	Roadway/Open Space	-	-	0.01
6977	668589.0	4281035.0	Roadway/Open Space	-	-	0.01
6978	668599.0	4281035.0	Roadway/Open Space	-	-	0.02
6979	668609.0	4281035.0	Residential	0.69	0.003	0.02
6980	668619.0	4281035.0	Residential	0.78	0.003	0.02
6981	668629.0	4281035.0	Residential	0.89	0.004	0.03
6982	668639.0	4281035.0	Residential	1.03	0.004	0.03
6983	668649.0	4281035.0	Residential	1.20	0.005	0.04
6984	668659.0	4281035.0	Roadway/Open Space	-	-	0.04
6985	668669.0	4281035.0	Roadway/Open Space	-	-	0.04
6986	668679.0	4281035.0	Roadway/Open Space	-	-	0.04
6987	668689.0	4281035.0	Roadway/Open Space	-	-	0.03
6988	668699.0	4281035.0	Roadway/Open Space	-	-	0.03
6989	668709.0	4281035.0	Roadway/Open Space	-	-	0.03
6990	668719.0	4281035.0	Roadway/Open Space	-	-	0.03
6991	668729.0	4281035.0	Roadway/Open Space	-	-	0.03
6992	668739.0	4281035.0	Roadway/Open Space	-	-	0.04
6993	668749.0	4281035.0	Roadway/Open Space	-	-	0.04
6994	668759.0	4281035.0	Roadway/Open Space	-	-	0.04
6995	668769.0	4281035.0	Roadway/Open Space	-	-	0.04
6996	668779.0	4281035.0	Roadway/Open Space	-	-	0.05
6997	668789.0	4281035.0	Roadway/Open Space	-	-	0.05
6998	668799.0	4281035.0	Roadway/Open Space	-	-	0.05
6999	668809.0	4281035.0	Roadway/Open Space	-	-	0.06
7000	668819.0	4281035.0	Roadway/Open Space	-	-	0.06
7001	668829.0	4281035.0	Roadway/Open Space	-	-	0.06
7002	668839.0	4281035.0	Roadway/Open Space	-	-	0.07
7003	668849.0	4281035.0	Roadway/Open Space	-	-	0.07
7004	668859.0	4281035.0	Roadway/Open Space	-	-	0.07
7005	668869.0	4281035.0	Roadway/Open Space	-	-	0.08
7006	668879.0	4281035.0	Roadway/Open Space	-	-	0.08
7007	668889.0	4281035.0	Roadway/Open Space	-	-	0.09
7010	668919.0	4281035.0	Roadway/Open Space	-	-	0.11
7011	668929.0	4281035.0	Roadway/Open Space	-	-	0.12
7012	668939.0	4281035.0	Roadway/Open Space	-	-	0.14
7013	668949.0	4281035.0	Roadway/Open Space	-	-	0.17
7014	668959.0	4281035.0	Roadway/Open Space	-	-	0.20
7015	668969.0	4281035.0	Roadway/Open Space	-	-	0.24
7016	668979.0	4281035.0	Roadway/Open Space	-	-	0.28
7017	668989.0	4281035.0	Roadway/Open Space	-	-	0.33
7018	668999.0	4281035.0	Roadway/Open Space	-	-	0.37
7032	669299.0	4281035.0	Roadway/Open Space	-	-	0.06
7033	669309.0	4281035.0	Roadway/Open Space	-	-	0.06
7034	669319.0	4281035.0	Roadway/Open Space	-	-	0.06
7035	669329.0	4281035.0	Roadway/Open Space	-	-	0.06
7036	669339.0	4281035.0	Roadway/Open Space	-	-	0.06
7037	669349.0	4281035.0	Roadway/Open Space	-	-	0.06
7038	669359.0	4281035.0	Roadway/Open Space	-	-	0.06
7039	669369.0	4281035.0	Roadway/Open Space	-	-	0.06
7040	669379.0	4281035.0	Roadway/Open Space	-	-	0.06
7041	669389.0	4281035.0	Roadway/Open Space	-	-	0.06
7042	669399.0	4281035.0	Roadway/Open Space	-	-	0.05
7043	669409.0	4281035.0	Roadway/Open Space	-	-	0.05
7044	669419.0	4281035.0	Roadway/Open Space	-	-	0.05
7045	669429.0	4281035.0	Roadway/Open Space	-	-	0.05
7046	669439.0	4281035.0	Roadway/Open Space	-	-	0.05
7047	669449.0	4281035.0	Roadway/Open Space	-	-	0.05
7048	669459.0	4281035.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7049	669469.0	4281035.0	Roadway/Open Space	-	-	0.04
7050	669479.0	4281035.0	Roadway/Open Space	-	-	0.04
7051	669489.0	4281035.0	Roadway/Open Space	-	-	0.04
7052	669499.0	4281035.0	Roadway/Open Space	-	-	0.04
7053	669509.0	4281035.0	Roadway/Open Space	-	-	0.04
7054	669519.0	4281035.0	Roadway/Open Space	-	-	0.04
7055	669529.0	4281035.0	Roadway/Open Space	-	-	0.04
7056	669539.0	4281035.0	Roadway/Open Space	-	-	0.04
7057	669549.0	4281035.0	Roadway/Open Space	-	-	0.04
7058	668499.0	4281045.0	Residential	0.29	0.001	0.01
7059	668509.0	4281045.0	Residential	0.31	0.001	0.01
7060	668519.0	4281045.0	Residential	0.33	0.001	0.01
7061	668529.0	4281045.0	Residential	0.35	0.001	0.01
7062	668539.0	4281045.0	Residential	0.37	0.002	0.01
7063	668549.0	4281045.0	Residential	0.40	0.002	0.01
7064	668559.0	4281045.0	Roadway/Open Space	-	-	0.01
7065	668569.0	4281045.0	Roadway/Open Space	-	-	0.01
7066	668579.0	4281045.0	Roadway/Open Space	-	-	0.01
7067	668589.0	4281045.0	Roadway/Open Space	-	-	0.01
7068	668599.0	4281045.0	Residential	0.64	0.003	0.02
7069	668609.0	4281045.0	Residential	0.72	0.003	0.02
7070	668619.0	4281045.0	Residential	0.82	0.003	0.03
7071	668629.0	4281045.0	Residential	0.94	0.004	0.03
7072	668639.0	4281045.0	Residential	1.08	0.004	0.03
7073	668649.0	4281045.0	Roadway/Open Space	-	-	0.04
7074	668659.0	4281045.0	Roadway/Open Space	-	-	0.04
7075	668669.0	4281045.0	Roadway/Open Space	-	-	0.04
7076	668679.0	4281045.0	Roadway/Open Space	-	-	0.03
7077	668689.0	4281045.0	Roadway/Open Space	-	-	0.03
7078	668699.0	4281045.0	Roadway/Open Space	-	-	0.03
7079	668709.0	4281045.0	Roadway/Open Space	-	-	0.03
7080	668719.0	4281045.0	Roadway/Open Space	-	-	0.03
7081	668729.0	4281045.0	Roadway/Open Space	-	-	0.03
7082	668739.0	4281045.0	Roadway/Open Space	-	-	0.04
7083	668749.0	4281045.0	Roadway/Open Space	-	-	0.04
7084	668759.0	4281045.0	Roadway/Open Space	-	-	0.04
7085	668769.0	4281045.0	Roadway/Open Space	-	-	0.04
7086	668779.0	4281045.0	Roadway/Open Space	-	-	0.05
7087	668789.0	4281045.0	Roadway/Open Space	-	-	0.05
7088	668799.0	4281045.0	Roadway/Open Space	-	-	0.05
7089	668809.0	4281045.0	Roadway/Open Space	-	-	0.06
7090	668819.0	4281045.0	Roadway/Open Space	-	-	0.06
7091	668829.0	4281045.0	Roadway/Open Space	-	-	0.06
7092	668839.0	4281045.0	Roadway/Open Space	-	-	0.07
7093	668849.0	4281045.0	Roadway/Open Space	-	-	0.07
7094	668859.0	4281045.0	Roadway/Open Space	-	-	0.08
7095	668869.0	4281045.0	Roadway/Open Space	-	-	0.08
7096	668879.0	4281045.0	Roadway/Open Space	-	-	0.08
7097	668889.0	4281045.0	Roadway/Open Space	-	-	0.09
7098	668899.0	4281045.0	Roadway/Open Space	-	-	0.10
7099	668909.0	4281045.0	Roadway/Open Space	-	-	0.11
7100	668919.0	4281045.0	Roadway/Open Space	-	-	0.11
7101	668929.0	4281045.0	Roadway/Open Space	-	-	0.13
7102	668939.0	4281045.0	Roadway/Open Space	-	-	0.15
7103	668949.0	4281045.0	Roadway/Open Space	-	-	0.17
7104	668959.0	4281045.0	Roadway/Open Space	-	-	0.20
7105	668969.0	4281045.0	Roadway/Open Space	-	-	0.24
7106	668979.0	4281045.0	Roadway/Open Space	-	-	0.28
7122	669299.0	4281045.0	Roadway/Open Space	-	-	0.06
7123	669309.0	4281045.0	Roadway/Open Space	-	-	0.06
7124	669319.0	4281045.0	Roadway/Open Space	-	-	0.06
7125	669329.0	4281045.0	Roadway/Open Space	-	-	0.06
7126	669339.0	4281045.0	Roadway/Open Space	-	-	0.06
7127	669349.0	4281045.0	Roadway/Open Space	-	-	0.06
7128	669359.0	4281045.0	Roadway/Open Space	-	-	0.06
7129	669369.0	4281045.0	Roadway/Open Space	-	-	0.06
7130	669379.0	4281045.0	Roadway/Open Space	-	-	0.06
7131	669389.0	4281045.0	Roadway/Open Space	-	-	0.06
7132	669399.0	4281045.0	Roadway/Open Space	-	-	0.05
7133	669409.0	4281045.0	Roadway/Open Space	-	-	0.05
7134	669419.0	4281045.0	Roadway/Open Space	-	-	0.05
7135	669429.0	4281045.0	Roadway/Open Space	-	-	0.05
7136	669439.0	4281045.0	Roadway/Open Space	-	-	0.05
7137	669449.0	4281045.0	Roadway/Open Space	-	-	0.05
7138	669459.0	4281045.0	Roadway/Open Space	-	-	0.04
7139	669469.0	4281045.0	Roadway/Open Space	-	-	0.04
7140	669479.0	4281045.0	Roadway/Open Space	-	-	0.04
7141	669489.0	4281045.0	Roadway/Open Space	-	-	0.04
7142	669499.0	4281045.0	Roadway/Open Space	-	-	0.04
7143	669509.0	4281045.0	Roadway/Open Space	-	-	0.04
7144	669519.0	4281045.0	Roadway/Open Space	-	-	0.04
7145	669529.0	4281045.0	Roadway/Open Space	-	-	0.04
7146	669539.0	4281045.0	Roadway/Open Space	-	-	0.04
7147	668499.0	4281055.0	Residential	0.29	0.001	0.01

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7148	668509.0	4281055.0	Residential	0.31	0.001	0.01
7149	668519.0	4281055.0	Residential	0.33	0.001	0.01
7150	668529.0	4281055.0	Residential	0.35	0.001	0.01
7151	668539.0	4281055.0	Residential	0.38	0.002	0.01
7152	668549.0	4281055.0	Roadway/Open Space	-	-	0.01
7153	668559.0	4281055.0	Roadway/Open Space	-	-	0.01
7154	668569.0	4281055.0	Roadway/Open Space	-	-	0.01
7155	668579.0	4281055.0	Roadway/Open Space	-	-	0.01
7156	668589.0	4281055.0	Residential	0.60	0.002	0.02
7157	668599.0	4281055.0	Residential	0.67	0.003	0.02
7158	668609.0	4281055.0	Residential	0.75	0.003	0.02
7159	668619.0	4281055.0	Residential	0.86	0.004	0.03
7160	668629.0	4281055.0	Residential	0.99	0.004	0.03
7161	668639.0	4281055.0	Residential	1.14	0.005	0.03
7162	668649.0	4281055.0	Roadway/Open Space	-	-	0.04
7163	668659.0	4281055.0	Roadway/Open Space	-	-	0.04
7164	668669.0	4281055.0	Roadway/Open Space	-	-	0.04
7165	668679.0	4281055.0	Roadway/Open Space	-	-	0.03
7166	668689.0	4281055.0	Roadway/Open Space	-	-	0.03
7167	668699.0	4281055.0	Roadway/Open Space	-	-	0.03
7168	668709.0	4281055.0	Roadway/Open Space	-	-	0.03
7169	668719.0	4281055.0	Roadway/Open Space	-	-	0.03
7170	668729.0	4281055.0	Roadway/Open Space	-	-	0.03
7171	668739.0	4281055.0	Roadway/Open Space	-	-	0.04
7172	668749.0	4281055.0	Roadway/Open Space	-	-	0.04
7173	668759.0	4281055.0	Roadway/Open Space	-	-	0.04
7174	668769.0	4281055.0	Roadway/Open Space	-	-	0.04
7175	668779.0	4281055.0	Roadway/Open Space	-	-	0.05
7176	668789.0	4281055.0	Roadway/Open Space	-	-	0.05
7177	668799.0	4281055.0	Roadway/Open Space	-	-	0.05
7178	668809.0	4281055.0	Roadway/Open Space	-	-	0.05
7179	668819.0	4281055.0	Roadway/Open Space	-	-	0.06
7180	668829.0	4281055.0	Roadway/Open Space	-	-	0.06
7181	668839.0	4281055.0	Roadway/Open Space	-	-	0.07
7182	668849.0	4281055.0	Roadway/Open Space	-	-	0.07
7183	668859.0	4281055.0	Roadway/Open Space	-	-	0.07
7184	668869.0	4281055.0	Roadway/Open Space	-	-	0.08
7185	668879.0	4281055.0	Roadway/Open Space	-	-	0.08
7186	668889.0	4281055.0	Roadway/Open Space	-	-	0.09
7187	668899.0	4281055.0	Roadway/Open Space	-	-	0.10
7188	668909.0	4281055.0	Roadway/Open Space	-	-	0.11
7189	668919.0	4281055.0	Roadway/Open Space	-	-	0.12
7190	668929.0	4281055.0	Roadway/Open Space	-	-	0.13
7191	668939.0	4281055.0	Roadway/Open Space	-	-	0.15
7192	668949.0	4281055.0	Roadway/Open Space	-	-	0.17
7193	668959.0	4281055.0	Roadway/Open Space	-	-	0.20
7211	669299.0	4281055.0	Roadway/Open Space	-	-	0.06
7212	669309.0	4281055.0	Roadway/Open Space	-	-	0.06
7213	669319.0	4281055.0	Roadway/Open Space	-	-	0.06
7214	669329.0	4281055.0	Roadway/Open Space	-	-	0.06
7215	669339.0	4281055.0	Roadway/Open Space	-	-	0.06
7216	669349.0	4281055.0	Roadway/Open Space	-	-	0.06
7217	669359.0	4281055.0	Roadway/Open Space	-	-	0.06
7218	669369.0	4281055.0	Roadway/Open Space	-	-	0.06
7219	669379.0	4281055.0	Roadway/Open Space	-	-	0.06
7220	669389.0	4281055.0	Roadway/Open Space	-	-	0.05
7221	669399.0	4281055.0	Roadway/Open Space	-	-	0.05
7222	669409.0	4281055.0	Roadway/Open Space	-	-	0.05
7223	669419.0	4281055.0	Roadway/Open Space	-	-	0.05
7224	669429.0	4281055.0	Roadway/Open Space	-	-	0.05
7225	669439.0	4281055.0	Roadway/Open Space	-	-	0.05
7226	669449.0	4281055.0	Roadway/Open Space	-	-	0.05
7227	669459.0	4281055.0	Roadway/Open Space	-	-	0.04
7228	669469.0	4281055.0	Roadway/Open Space	-	-	0.04
7229	669479.0	4281055.0	Roadway/Open Space	-	-	0.04
7230	669489.0	4281055.0	Roadway/Open Space	-	-	0.04
7231	669499.0	4281055.0	Roadway/Open Space	-	-	0.04
7232	669509.0	4281055.0	Roadway/Open Space	-	-	0.04
7233	669519.0	4281055.0	Roadway/Open Space	-	-	0.04
7234	669529.0	4281055.0	Roadway/Open Space	-	-	0.04
7235	669539.0	4281055.0	Roadway/Open Space	-	-	0.03
7236	668499.0	4281065.0	Residential	0.30	0.001	0.01
7237	668509.0	4281065.0	Residential	0.32	0.001	0.01
7238	668519.0	4281065.0	Residential	0.34	0.001	0.01
7239	668529.0	4281065.0	Residential	0.36	0.001	0.01
7240	668539.0	4281065.0	Roadway/Open Space	-	-	0.01
7241	668549.0	4281065.0	Roadway/Open Space	-	-	0.01
7242	668559.0	4281065.0	Roadway/Open Space	-	-	0.01
7243	668569.0	4281065.0	Roadway/Open Space	-	-	0.01
7244	668579.0	4281065.0	Roadway/Open Space	-	-	0.01
7245	668589.0	4281065.0	Residential	0.61	0.002	0.01
7246	668599.0	4281065.0	Residential	0.68	0.003	0.02
7247	668609.0	4281065.0	Residential	0.78	0.003	0.02
7248	668619.0	4281065.0	Residential	0.89	0.004	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7249	668629.0	4281065.0	Residential	1.02	0.004	0.03
7250	668639.0	4281065.0	Roadway/Open Space	-	-	0.04
7251	668649.0	4281065.0	Roadway/Open Space	-	-	0.04
7252	668659.0	4281065.0	Roadway/Open Space	-	-	0.04
7253	668669.0	4281065.0	Roadway/Open Space	-	-	0.03
7254	668679.0	4281065.0	Roadway/Open Space	-	-	0.03
7255	668689.0	4281065.0	Roadway/Open Space	-	-	0.03
7256	668699.0	4281065.0	Roadway/Open Space	-	-	0.03
7257	668709.0	4281065.0	Roadway/Open Space	-	-	0.03
7258	668719.0	4281065.0	Roadway/Open Space	-	-	0.03
7259	668729.0	4281065.0	Roadway/Open Space	-	-	0.03
7260	668739.0	4281065.0	Roadway/Open Space	-	-	0.04
7261	668749.0	4281065.0	Roadway/Open Space	-	-	0.04
7262	668759.0	4281065.0	Roadway/Open Space	-	-	0.04
7263	668769.0	4281065.0	Roadway/Open Space	-	-	0.04
7264	668779.0	4281065.0	Roadway/Open Space	-	-	0.05
7265	668789.0	4281065.0	Roadway/Open Space	-	-	0.05
7266	668799.0	4281065.0	Roadway/Open Space	-	-	0.05
7267	668809.0	4281065.0	Roadway/Open Space	-	-	0.05
7268	668819.0	4281065.0	Roadway/Open Space	-	-	0.06
7269	668829.0	4281065.0	Roadway/Open Space	-	-	0.06
7270	668839.0	4281065.0	Roadway/Open Space	-	-	0.06
7271	668849.0	4281065.0	Roadway/Open Space	-	-	0.07
7272	668859.0	4281065.0	Roadway/Open Space	-	-	0.07
7273	668869.0	4281065.0	Roadway/Open Space	-	-	0.08
7274	668879.0	4281065.0	Roadway/Open Space	-	-	0.08
7275	668889.0	4281065.0	Roadway/Open Space	-	-	0.09
7276	668899.0	4281065.0	Roadway/Open Space	-	-	0.10
7277	668909.0	4281065.0	Roadway/Open Space	-	-	0.10
7278	668919.0	4281065.0	Roadway/Open Space	-	-	0.12
7279	668929.0	4281065.0	Roadway/Open Space	-	-	0.13
7280	668939.0	4281065.0	Roadway/Open Space	-	-	0.14
7300	669299.0	4281065.0	Roadway/Open Space	-	-	0.07
7301	669309.0	4281065.0	Roadway/Open Space	-	-	0.06
7302	669319.0	4281065.0	Roadway/Open Space	-	-	0.06
7303	669329.0	4281065.0	Roadway/Open Space	-	-	0.06
7304	669339.0	4281065.0	Roadway/Open Space	-	-	0.06
7305	669349.0	4281065.0	Roadway/Open Space	-	-	0.06
7306	669359.0	4281065.0	Roadway/Open Space	-	-	0.06
7307	669369.0	4281065.0	Roadway/Open Space	-	-	0.06
7308	669379.0	4281065.0	Roadway/Open Space	-	-	0.05
7309	669389.0	4281065.0	Roadway/Open Space	-	-	0.05
7310	669399.0	4281065.0	Roadway/Open Space	-	-	0.05
7311	669409.0	4281065.0	Roadway/Open Space	-	-	0.05
7312	669419.0	4281065.0	Roadway/Open Space	-	-	0.05
7313	669429.0	4281065.0	Roadway/Open Space	-	-	0.05
7314	669439.0	4281065.0	Roadway/Open Space	-	-	0.05
7315	669449.0	4281065.0	Roadway/Open Space	-	-	0.05
7316	669459.0	4281065.0	Roadway/Open Space	-	-	0.04
7317	669469.0	4281065.0	Roadway/Open Space	-	-	0.04
7318	669479.0	4281065.0	Roadway/Open Space	-	-	0.04
7319	669489.0	4281065.0	Roadway/Open Space	-	-	0.04
7320	669499.0	4281065.0	Roadway/Open Space	-	-	0.04
7321	669509.0	4281065.0	Roadway/Open Space	-	-	0.04
7322	669519.0	4281065.0	Roadway/Open Space	-	-	0.04
7323	669529.0	4281065.0	Roadway/Open Space	-	-	0.03
7324	668499.0	4281075.0	Residential	0.30	0.001	0.01
7325	668509.0	4281075.0	Residential	0.32	0.001	0.01
7326	668519.0	4281075.0	Residential	0.34	0.001	0.01
7327	668529.0	4281075.0	Residential	0.36	0.001	0.01
7328	668539.0	4281075.0	Roadway/Open Space	-	-	0.01
7329	668549.0	4281075.0	Roadway/Open Space	-	-	0.01
7330	668559.0	4281075.0	Roadway/Open Space	-	-	0.01
7331	668569.0	4281075.0	Roadway/Open Space	-	-	0.01
7332	668579.0	4281075.0	Residential	0.55	0.002	0.01
7333	668589.0	4281075.0	Residential	0.61	0.003	0.01
7334	668599.0	4281075.0	Residential	0.69	0.003	0.02
7335	668609.0	4281075.0	Residential	0.79	0.003	0.02
7336	668619.0	4281075.0	Residential	0.91	0.004	0.03
7337	668629.0	4281075.0	Residential	1.05	0.004	0.03
7338	668639.0	4281075.0	Roadway/Open Space	-	-	0.04
7339	668649.0	4281075.0	Roadway/Open Space	-	-	0.04
7340	668659.0	4281075.0	Roadway/Open Space	-	-	0.04
7341	668669.0	4281075.0	Roadway/Open Space	-	-	0.03
7342	668679.0	4281075.0	Roadway/Open Space	-	-	0.03
7343	668689.0	4281075.0	Roadway/Open Space	-	-	0.03
7344	668699.0	4281075.0	Roadway/Open Space	-	-	0.03
7345	668709.0	4281075.0	Roadway/Open Space	-	-	0.03
7346	668719.0	4281075.0	Roadway/Open Space	-	-	0.03
7347	668729.0	4281075.0	Roadway/Open Space	-	-	0.03
7348	668739.0	4281075.0	Roadway/Open Space	-	-	0.04
7349	668749.0	4281075.0	Roadway/Open Space	-	-	0.04
7350	668759.0	4281075.0	Roadway/Open Space	-	-	0.04
7351	668769.0	4281075.0	Roadway/Open Space	-	-	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7352	668779.0	4281075.0	Roadway/Open Space	-	-	0.05
7353	668789.0	4281075.0	Roadway/Open Space	-	-	0.05
7354	668799.0	4281075.0	Roadway/Open Space	-	-	0.05
7355	668809.0	4281075.0	Roadway/Open Space	-	-	0.05
7356	668819.0	4281075.0	Roadway/Open Space	-	-	0.06
7357	668829.0	4281075.0	Roadway/Open Space	-	-	0.06
7358	668839.0	4281075.0	Roadway/Open Space	-	-	0.06
7359	668849.0	4281075.0	Roadway/Open Space	-	-	0.07
7360	668859.0	4281075.0	Roadway/Open Space	-	-	0.07
7361	668869.0	4281075.0	Roadway/Open Space	-	-	0.08
7362	668879.0	4281075.0	Roadway/Open Space	-	-	0.08
7363	668889.0	4281075.0	Roadway/Open Space	-	-	0.09
7364	668899.0	4281075.0	Roadway/Open Space	-	-	0.10
7365	668909.0	4281075.0	Roadway/Open Space	-	-	0.10
7366	668919.0	4281075.0	Roadway/Open Space	-	-	0.11
7385	669299.0	4281075.0	Roadway/Open Space	-	-	0.06
7386	669309.0	4281075.0	Roadway/Open Space	-	-	0.06
7387	669319.0	4281075.0	Roadway/Open Space	-	-	0.06
7388	669329.0	4281075.0	Roadway/Open Space	-	-	0.06
7389	669339.0	4281075.0	Roadway/Open Space	-	-	0.06
7390	669349.0	4281075.0	Roadway/Open Space	-	-	0.06
7391	669359.0	4281075.0	Roadway/Open Space	-	-	0.06
7392	669369.0	4281075.0	Roadway/Open Space	-	-	0.06
7393	669379.0	4281075.0	Roadway/Open Space	-	-	0.05
7394	669389.0	4281075.0	Roadway/Open Space	-	-	0.05
7395	669399.0	4281075.0	Roadway/Open Space	-	-	0.05
7396	669409.0	4281075.0	Roadway/Open Space	-	-	0.05
7397	669419.0	4281075.0	Roadway/Open Space	-	-	0.05
7398	669429.0	4281075.0	Roadway/Open Space	-	-	0.05
7399	669439.0	4281075.0	Roadway/Open Space	-	-	0.05
7400	669449.0	4281075.0	Roadway/Open Space	-	-	0.05
7401	669459.0	4281075.0	Roadway/Open Space	-	-	0.04
7402	669469.0	4281075.0	Roadway/Open Space	-	-	0.04
7403	669479.0	4281075.0	Roadway/Open Space	-	-	0.04
7404	669489.0	4281075.0	Roadway/Open Space	-	-	0.04
7405	669499.0	4281075.0	Roadway/Open Space	-	-	0.04
7406	669509.0	4281075.0	Roadway/Open Space	-	-	0.04
7407	669519.0	4281075.0	Roadway/Open Space	-	-	0.04
7408	669529.0	4281075.0	Roadway/Open Space	-	-	0.03
7409	668499.0	4281085.0	Residential	0.31	0.001	0.01
7410	668509.0	4281085.0	Residential	0.32	0.001	0.01
7411	668519.0	4281085.0	Residential	0.35	0.001	0.01
7412	668529.0	4281085.0	Roadway/Open Space	-	-	0.01
7413	668539.0	4281085.0	Roadway/Open Space	-	-	0.01
7414	668549.0	4281085.0	Roadway/Open Space	-	-	0.01
7415	668559.0	4281085.0	Roadway/Open Space	-	-	0.01
7416	668569.0	4281085.0	Roadway/Open Space	-	-	0.01
7417	668579.0	4281085.0	Residential	0.56	0.002	0.01
7418	668589.0	4281085.0	Residential	0.62	0.003	0.02
7419	668599.0	4281085.0	Residential	0.70	0.003	0.02
7420	668609.0	4281085.0	Residential	0.80	0.003	0.02
7421	668619.0	4281085.0	Residential	0.93	0.004	0.03
7422	668629.0	4281085.0	Roadway/Open Space	-	-	0.03
7423	668639.0	4281085.0	Roadway/Open Space	-	-	0.04
7424	668649.0	4281085.0	Roadway/Open Space	-	-	0.04
7425	668659.0	4281085.0	Roadway/Open Space	-	-	0.04
7426	668669.0	4281085.0	Roadway/Open Space	-	-	0.03
7427	668679.0	4281085.0	Roadway/Open Space	-	-	0.03
7428	668689.0	4281085.0	Roadway/Open Space	-	-	0.03
7429	668699.0	4281085.0	Roadway/Open Space	-	-	0.03
7430	668709.0	4281085.0	Roadway/Open Space	-	-	0.03
7431	668719.0	4281085.0	Roadway/Open Space	-	-	0.03
7432	668729.0	4281085.0	Roadway/Open Space	-	-	0.03
7433	668739.0	4281085.0	Roadway/Open Space	-	-	0.04
7434	668749.0	4281085.0	Roadway/Open Space	-	-	0.04
7435	668759.0	4281085.0	Roadway/Open Space	-	-	0.04
7436	668769.0	4281085.0	Roadway/Open Space	-	-	0.04
7437	668779.0	4281085.0	Roadway/Open Space	-	-	0.04
7438	668789.0	4281085.0	Roadway/Open Space	-	-	0.05
7439	668799.0	4281085.0	Roadway/Open Space	-	-	0.05
7440	668809.0	4281085.0	Roadway/Open Space	-	-	0.05
7441	668819.0	4281085.0	Roadway/Open Space	-	-	0.05
7442	668829.0	4281085.0	Roadway/Open Space	-	-	0.06
7443	668839.0	4281085.0	Roadway/Open Space	-	-	0.06
7444	668849.0	4281085.0	Roadway/Open Space	-	-	0.07
7445	668859.0	4281085.0	Roadway/Open Space	-	-	0.07
7446	668869.0	4281085.0	Roadway/Open Space	-	-	0.08
7447	668879.0	4281085.0	Roadway/Open Space	-	-	0.08
7448	668889.0	4281085.0	Roadway/Open Space	-	-	0.09
7449	668899.0	4281085.0	Roadway/Open Space	-	-	0.10
7468	669289.0	4281085.0	Roadway/Open Space	-	-	0.06
7469	669299.0	4281085.0	Roadway/Open Space	-	-	0.06
7470	669309.0	4281085.0	Roadway/Open Space	-	-	0.06
7471	669319.0	4281085.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7472	669329.0	4281085.0	Roadway/Open Space	-	-	0.06
7473	669339.0	4281085.0	Roadway/Open Space	-	-	0.06
7474	669349.0	4281085.0	Roadway/Open Space	-	-	0.06
7475	669359.0	4281085.0	Roadway/Open Space	-	-	0.05
7476	669369.0	4281085.0	Roadway/Open Space	-	-	0.05
7477	669379.0	4281085.0	Roadway/Open Space	-	-	0.05
7478	669389.0	4281085.0	Roadway/Open Space	-	-	0.05
7479	669399.0	4281085.0	Roadway/Open Space	-	-	0.05
7480	669409.0	4281085.0	Roadway/Open Space	-	-	0.05
7481	669419.0	4281085.0	Roadway/Open Space	-	-	0.05
7482	669429.0	4281085.0	Roadway/Open Space	-	-	0.05
7483	669439.0	4281085.0	Roadway/Open Space	-	-	0.05
7484	669449.0	4281085.0	Roadway/Open Space	-	-	0.04
7485	669459.0	4281085.0	Roadway/Open Space	-	-	0.04
7486	669469.0	4281085.0	Roadway/Open Space	-	-	0.04
7487	669479.0	4281085.0	Roadway/Open Space	-	-	0.04
7488	669489.0	4281085.0	Roadway/Open Space	-	-	0.04
7489	669499.0	4281085.0	Roadway/Open Space	-	-	0.04
7490	669509.0	4281085.0	Roadway/Open Space	-	-	0.04
7491	669519.0	4281085.0	Roadway/Open Space	-	-	0.03
7492	669529.0	4281085.0	Roadway/Open Space	-	-	0.03
7493	668499.0	4281095.0	Residential	0.31	0.001	0.01
7494	668509.0	4281095.0	Residential	0.33	0.001	0.01
7495	668519.0	4281095.0	Roadway/Open Space	-	-	0.01
7496	668529.0	4281095.0	Roadway/Open Space	-	-	0.01
7497	668539.0	4281095.0	Roadway/Open Space	-	-	0.01
7498	668549.0	4281095.0	Roadway/Open Space	-	-	0.01
7499	668559.0	4281095.0	Roadway/Open Space	-	-	0.01
7500	668569.0	4281095.0	Residential	0.52	0.002	0.01
7501	668579.0	4281095.0	Residential	0.57	0.002	0.01
7502	668589.0	4281095.0	Residential	0.64	0.003	0.02
7503	668599.0	4281095.0	Residential	0.72	0.003	0.02
7504	668609.0	4281095.0	Residential	0.82	0.003	0.02
7505	668619.0	4281095.0	Residential	0.95	0.004	0.03
7506	668629.0	4281095.0	Roadway/Open Space	-	-	0.03
7507	668639.0	4281095.0	Roadway/Open Space	-	-	0.04
7508	668649.0	4281095.0	Roadway/Open Space	-	-	0.04
7509	668659.0	4281095.0	Roadway/Open Space	-	-	0.04
7510	668669.0	4281095.0	Roadway/Open Space	-	-	0.03
7511	668679.0	4281095.0	Roadway/Open Space	-	-	0.03
7512	668689.0	4281095.0	Roadway/Open Space	-	-	0.03
7513	668699.0	4281095.0	Roadway/Open Space	-	-	0.03
7514	668709.0	4281095.0	Roadway/Open Space	-	-	0.03
7515	668719.0	4281095.0	Roadway/Open Space	-	-	0.03
7516	668729.0	4281095.0	Roadway/Open Space	-	-	0.03
7517	668739.0	4281095.0	Roadway/Open Space	-	-	0.04
7518	668749.0	4281095.0	Roadway/Open Space	-	-	0.04
7519	668759.0	4281095.0	Roadway/Open Space	-	-	0.04
7520	668769.0	4281095.0	Roadway/Open Space	-	-	0.04
7521	668779.0	4281095.0	Roadway/Open Space	-	-	0.04
7522	668789.0	4281095.0	Roadway/Open Space	-	-	0.05
7523	668799.0	4281095.0	Roadway/Open Space	-	-	0.05
7524	668809.0	4281095.0	Roadway/Open Space	-	-	0.05
7525	668819.0	4281095.0	Roadway/Open Space	-	-	0.05
7526	668829.0	4281095.0	Roadway/Open Space	-	-	0.06
7527	668839.0	4281095.0	Roadway/Open Space	-	-	0.06
7528	668849.0	4281095.0	Roadway/Open Space	-	-	0.07
7529	668859.0	4281095.0	Roadway/Open Space	-	-	0.07
7530	668869.0	4281095.0	Roadway/Open Space	-	-	0.08
7531	668879.0	4281095.0	Roadway/Open Space	-	-	0.08
7532	668889.0	4281095.0	Roadway/Open Space	-	-	0.09
7547	669289.0	4281095.0	Roadway/Open Space	-	-	0.06
7548	669299.0	4281095.0	Roadway/Open Space	-	-	0.06
7549	669309.0	4281095.0	Roadway/Open Space	-	-	0.06
7550	669319.0	4281095.0	Roadway/Open Space	-	-	0.06
7551	669329.0	4281095.0	Roadway/Open Space	-	-	0.06
7552	669339.0	4281095.0	Roadway/Open Space	-	-	0.05
7553	669349.0	4281095.0	Roadway/Open Space	-	-	0.05
7554	669359.0	4281095.0	Roadway/Open Space	-	-	0.05
7555	669369.0	4281095.0	Roadway/Open Space	-	-	0.05
7556	669379.0	4281095.0	Roadway/Open Space	-	-	0.05
7557	669389.0	4281095.0	Roadway/Open Space	-	-	0.05
7558	669399.0	4281095.0	Roadway/Open Space	-	-	0.05
7559	669409.0	4281095.0	Roadway/Open Space	-	-	0.05
7560	669419.0	4281095.0	Roadway/Open Space	-	-	0.05
7561	669429.0	4281095.0	Roadway/Open Space	-	-	0.05
7562	669439.0	4281095.0	Roadway/Open Space	-	-	0.04
7563	669449.0	4281095.0	Roadway/Open Space	-	-	0.04
7564	669459.0	4281095.0	Roadway/Open Space	-	-	0.04
7565	669469.0	4281095.0	Roadway/Open Space	-	-	0.04
7566	669479.0	4281095.0	Roadway/Open Space	-	-	0.04
7567	669489.0	4281095.0	Roadway/Open Space	-	-	0.04
7568	669499.0	4281095.0	Roadway/Open Space	-	-	0.04
7569	669509.0	4281095.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7570	669519.0	4281095.0	Roadway/Open Space	-	-	0.03
7571	669529.0	4281095.0	Roadway/Open Space	-	-	0.03
7572	668509.0	4281105.0	Roadway/Open Space	-	-	0.01
7573	668519.0	4281105.0	Roadway/Open Space	-	-	0.01
7574	668529.0	4281105.0	Roadway/Open Space	-	-	0.01
7575	668539.0	4281105.0	Roadway/Open Space	-	-	0.01
7576	668549.0	4281105.0	Roadway/Open Space	-	-	0.01
7577	668559.0	4281105.0	Roadway/Open Space	-	-	0.01
7578	668569.0	4281105.0	Residential	0.53	0.002	0.01
7579	668579.0	4281105.0	Residential	0.59	0.002	0.02
7580	668589.0	4281105.0	Residential	0.66	0.003	0.02
7581	668599.0	4281105.0	Residential	0.74	0.003	0.02
7582	668609.0	4281105.0	Residential	0.85	0.003	0.02
7583	668619.0	4281105.0	Roadway/Open Space	-	-	0.03
7584	668629.0	4281105.0	Roadway/Open Space	-	-	0.03
7585	668639.0	4281105.0	Roadway/Open Space	-	-	0.04
7586	668649.0	4281105.0	Roadway/Open Space	-	-	0.04
7587	668659.0	4281105.0	Roadway/Open Space	-	-	0.04
7588	668669.0	4281105.0	Roadway/Open Space	-	-	0.03
7589	668679.0	4281105.0	Roadway/Open Space	-	-	0.03
7590	668689.0	4281105.0	Roadway/Open Space	-	-	0.03
7591	668699.0	4281105.0	Roadway/Open Space	-	-	0.03
7592	668709.0	4281105.0	Roadway/Open Space	-	-	0.03
7593	668719.0	4281105.0	Roadway/Open Space	-	-	0.03
7594	668729.0	4281105.0	Roadway/Open Space	-	-	0.03
7595	668739.0	4281105.0	Roadway/Open Space	-	-	0.04
7596	668749.0	4281105.0	Roadway/Open Space	-	-	0.04
7597	668759.0	4281105.0	Roadway/Open Space	-	-	0.04
7598	668769.0	4281105.0	Roadway/Open Space	-	-	0.04
7599	668779.0	4281105.0	Roadway/Open Space	-	-	0.04
7600	668789.0	4281105.0	Roadway/Open Space	-	-	0.05
7601	668799.0	4281105.0	Roadway/Open Space	-	-	0.05
7602	668809.0	4281105.0	Roadway/Open Space	-	-	0.05
7603	668819.0	4281105.0	Roadway/Open Space	-	-	0.05
7604	668829.0	4281105.0	Roadway/Open Space	-	-	0.06
7605	668839.0	4281105.0	Roadway/Open Space	-	-	0.06
7606	668849.0	4281105.0	Roadway/Open Space	-	-	0.07
7607	668859.0	4281105.0	Roadway/Open Space	-	-	0.07
7608	668869.0	4281105.0	Roadway/Open Space	-	-	0.07
7609	668879.0	4281105.0	Roadway/Open Space	-	-	0.08
7621	669289.0	4281105.0	Roadway/Open Space	-	-	0.06
7622	669299.0	4281105.0	Roadway/Open Space	-	-	0.06
7623	669309.0	4281105.0	Roadway/Open Space	-	-	0.06
7624	669319.0	4281105.0	Roadway/Open Space	-	-	0.06
7625	669329.0	4281105.0	Roadway/Open Space	-	-	0.06
7626	669339.0	4281105.0	Roadway/Open Space	-	-	0.05
7627	669349.0	4281105.0	Roadway/Open Space	-	-	0.05
7628	669359.0	4281105.0	Roadway/Open Space	-	-	0.05
7629	669369.0	4281105.0	Roadway/Open Space	-	-	0.05
7630	669379.0	4281105.0	Roadway/Open Space	-	-	0.05
7631	669389.0	4281105.0	Roadway/Open Space	-	-	0.05
7632	669399.0	4281105.0	Roadway/Open Space	-	-	0.05
7633	669409.0	4281105.0	Roadway/Open Space	-	-	0.05
7634	669419.0	4281105.0	Roadway/Open Space	-	-	0.05
7635	669429.0	4281105.0	Roadway/Open Space	-	-	0.05
7636	669439.0	4281105.0	Roadway/Open Space	-	-	0.04
7637	669449.0	4281105.0	Roadway/Open Space	-	-	0.04
7638	669459.0	4281105.0	Roadway/Open Space	-	-	0.04
7639	669469.0	4281105.0	Roadway/Open Space	-	-	0.04
7640	669479.0	4281105.0	Roadway/Open Space	-	-	0.04
7641	669489.0	4281105.0	Roadway/Open Space	-	-	0.04
7642	669499.0	4281105.0	Roadway/Open Space	-	-	0.04
7643	669509.0	4281105.0	Roadway/Open Space	-	-	0.03
7644	669519.0	4281105.0	Roadway/Open Space	-	-	0.03
7645	669529.0	4281105.0	Roadway/Open Space	-	-	0.03
7646	668509.0	4281115.0	Roadway/Open Space	-	-	0.01
7647	668519.0	4281115.0	Roadway/Open Space	-	-	0.01
7648	668529.0	4281115.0	Roadway/Open Space	-	-	0.01
7649	668539.0	4281115.0	Roadway/Open Space	-	-	0.01
7650	668549.0	4281115.0	Roadway/Open Space	-	-	0.01
7651	668559.0	4281115.0	Residential	0.50	0.002	0.01
7652	668569.0	4281115.0	Residential	0.55	0.002	0.01
7653	668579.0	4281115.0	Residential	0.61	0.003	0.02
7654	668589.0	4281115.0	Residential	0.68	0.003	0.02
7655	668599.0	4281115.0	Residential	0.77	0.003	0.02
7656	668609.0	4281115.0	Roadway/Open Space	-	-	0.02
7657	668619.0	4281115.0	Roadway/Open Space	-	-	0.03
7658	668629.0	4281115.0	Roadway/Open Space	-	-	0.03
7659	668639.0	4281115.0	Roadway/Open Space	-	-	0.04
7660	668649.0	4281115.0	Roadway/Open Space	-	-	0.04
7661	668659.0	4281115.0	Roadway/Open Space	-	-	0.03
7662	668669.0	4281115.0	Roadway/Open Space	-	-	0.03
7663	668679.0	4281115.0	Roadway/Open Space	-	-	0.03
7664	668689.0	4281115.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7665	668699.0	4281115.0	Roadway/Open Space	-	-	0.03
7666	668709.0	4281115.0	Roadway/Open Space	-	-	0.03
7667	668719.0	4281115.0	Roadway/Open Space	-	-	0.03
7668	668729.0	4281115.0	Roadway/Open Space	-	-	0.03
7669	668739.0	4281115.0	Roadway/Open Space	-	-	0.04
7670	668749.0	4281115.0	Roadway/Open Space	-	-	0.04
7671	668759.0	4281115.0	Roadway/Open Space	-	-	0.04
7672	668769.0	4281115.0	Roadway/Open Space	-	-	0.04
7673	668779.0	4281115.0	Roadway/Open Space	-	-	0.04
7674	668789.0	4281115.0	Roadway/Open Space	-	-	0.05
7675	668799.0	4281115.0	Roadway/Open Space	-	-	0.05
7676	668809.0	4281115.0	Roadway/Open Space	-	-	0.05
7677	668819.0	4281115.0	Roadway/Open Space	-	-	0.05
7678	668829.0	4281115.0	Roadway/Open Space	-	-	0.06
7679	668839.0	4281115.0	Roadway/Open Space	-	-	0.06
7680	668849.0	4281115.0	Roadway/Open Space	-	-	0.06
7681	668859.0	4281115.0	Roadway/Open Space	-	-	0.07
7682	668869.0	4281115.0	Roadway/Open Space	-	-	0.07
7683	668879.0	4281115.0	Roadway/Open Space	-	-	0.08
7693	669289.0	4281115.0	Roadway/Open Space	-	-	0.06
7694	669299.0	4281115.0	Roadway/Open Space	-	-	0.05
7695	669309.0	4281115.0	Roadway/Open Space	-	-	0.05
7696	669319.0	4281115.0	Roadway/Open Space	-	-	0.05
7697	669329.0	4281115.0	Roadway/Open Space	-	-	0.05
7698	669339.0	4281115.0	Roadway/Open Space	-	-	0.05
7699	669349.0	4281115.0	Roadway/Open Space	-	-	0.05
7700	669359.0	4281115.0	Roadway/Open Space	-	-	0.05
7701	669369.0	4281115.0	Roadway/Open Space	-	-	0.05
7702	669379.0	4281115.0	Roadway/Open Space	-	-	0.05
7703	669389.0	4281115.0	Roadway/Open Space	-	-	0.05
7704	669399.0	4281115.0	Roadway/Open Space	-	-	0.05
7705	669409.0	4281115.0	Roadway/Open Space	-	-	0.05
7706	669419.0	4281115.0	Roadway/Open Space	-	-	0.05
7707	669429.0	4281115.0	Roadway/Open Space	-	-	0.04
7708	669439.0	4281115.0	Roadway/Open Space	-	-	0.04
7709	669449.0	4281115.0	Roadway/Open Space	-	-	0.04
7710	669459.0	4281115.0	Roadway/Open Space	-	-	0.04
7711	669469.0	4281115.0	Roadway/Open Space	-	-	0.04
7712	669479.0	4281115.0	Roadway/Open Space	-	-	0.04
7713	669489.0	4281115.0	Roadway/Open Space	-	-	0.04
7714	669499.0	4281115.0	Roadway/Open Space	-	-	0.03
7715	669509.0	4281115.0	Roadway/Open Space	-	-	0.03
7716	669519.0	4281115.0	Roadway/Open Space	-	-	0.03
7717	669529.0	4281115.0	Roadway/Open Space	-	-	0.03
7718	668509.0	4281125.0	Roadway/Open Space	-	-	0.01
7719	668519.0	4281125.0	Roadway/Open Space	-	-	0.01
7720	668529.0	4281125.0	Roadway/Open Space	-	-	0.01
7721	668539.0	4281125.0	Roadway/Open Space	-	-	0.01
7722	668549.0	4281125.0	Roadway/Open Space	-	-	0.01
7723	668559.0	4281125.0	Residential	0.52	0.002	0.01
7724	668569.0	4281125.0	Residential	0.57	0.002	0.02
7725	668579.0	4281125.0	Residential	0.64	0.003	0.02
7726	668589.0	4281125.0	Residential	0.71	0.003	0.02
7727	668599.0	4281125.0	Residential	0.80	0.003	0.02
7728	668609.0	4281125.0	Roadway/Open Space	-	-	0.03
7729	668619.0	4281125.0	Roadway/Open Space	-	-	0.03
7730	668629.0	4281125.0	Roadway/Open Space	-	-	0.03
7731	668639.0	4281125.0	Roadway/Open Space	-	-	0.04
7732	668649.0	4281125.0	Roadway/Open Space	-	-	0.04
7733	668659.0	4281125.0	Roadway/Open Space	-	-	0.03
7734	668669.0	4281125.0	Roadway/Open Space	-	-	0.03
7735	668679.0	4281125.0	Roadway/Open Space	-	-	0.03
7736	668689.0	4281125.0	Roadway/Open Space	-	-	0.03
7737	668699.0	4281125.0	Roadway/Open Space	-	-	0.03
7738	668709.0	4281125.0	Roadway/Open Space	-	-	0.03
7739	668719.0	4281125.0	Roadway/Open Space	-	-	0.03
7740	668729.0	4281125.0	Roadway/Open Space	-	-	0.03
7741	668739.0	4281125.0	Roadway/Open Space	-	-	0.04
7742	668749.0	4281125.0	Roadway/Open Space	-	-	0.04
7743	668759.0	4281125.0	Roadway/Open Space	-	-	0.04
7744	668769.0	4281125.0	Roadway/Open Space	-	-	0.04
7745	668779.0	4281125.0	Roadway/Open Space	-	-	0.04
7746	668789.0	4281125.0	Roadway/Open Space	-	-	0.04
7747	668799.0	4281125.0	Roadway/Open Space	-	-	0.06
7748	668809.0	4281125.0	Roadway/Open Space	-	-	0.06
7749	668819.0	4281125.0	Roadway/Open Space	-	-	0.06
7750	668829.0	4281125.0	Roadway/Open Space	-	-	0.07
7751	668839.0	4281125.0	Roadway/Open Space	-	-	0.06
7752	668849.0	4281125.0	Roadway/Open Space	-	-	0.06
7753	668859.0	4281125.0	Roadway/Open Space	-	-	0.07
7754	668869.0	4281125.0	Roadway/Open Space	-	-	0.07
7755	668879.0	4281125.0	Roadway/Open Space	-	-	0.08
7761	669289.0	4281125.0	Roadway/Open Space	-	-	0.05
7762	669299.0	4281125.0	Roadway/Open Space	-	-	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7763	669309.0	4281125.0	Residential	4.79	0.020	0.05
7764	669319.0	4281125.0	Residential	4.53	0.019	0.05
7765	669329.0	4281125.0	Residential	4.33	0.018	0.05
7766	669339.0	4281125.0	Residential	4.07	0.017	0.04
7767	669349.0	4281125.0	Roadway/Open Space	-	-	0.04
7768	669359.0	4281125.0	Roadway/Open Space	-	-	0.04
7769	669369.0	4281125.0	Roadway/Open Space	-	-	0.04
7770	669379.0	4281125.0	Roadway/Open Space	-	-	0.05
7771	669389.0	4281125.0	Roadway/Open Space	-	-	0.05
7772	669399.0	4281125.0	Roadway/Open Space	-	-	0.05
7773	669409.0	4281125.0	Roadway/Open Space	-	-	0.05
7774	669419.0	4281125.0	Roadway/Open Space	-	-	0.05
7775	669429.0	4281125.0	Roadway/Open Space	-	-	0.04
7776	669439.0	4281125.0	Roadway/Open Space	-	-	0.04
7777	669449.0	4281125.0	Roadway/Open Space	-	-	0.04
7778	669459.0	4281125.0	Roadway/Open Space	-	-	0.04
7779	669469.0	4281125.0	Roadway/Open Space	-	-	0.04
7780	669479.0	4281125.0	Roadway/Open Space	-	-	0.04
7781	669489.0	4281125.0	Roadway/Open Space	-	-	0.04
7782	669499.0	4281125.0	Roadway/Open Space	-	-	0.03
7783	669509.0	4281125.0	Roadway/Open Space	-	-	0.03
7784	669519.0	4281125.0	Roadway/Open Space	-	-	0.03
7785	669529.0	4281125.0	Roadway/Open Space	-	-	0.03
7786	668509.0	4281135.0	Roadway/Open Space	-	-	0.01
7787	668519.0	4281135.0	Roadway/Open Space	-	-	0.01
7788	668529.0	4281135.0	Roadway/Open Space	-	-	0.01
7789	668539.0	4281135.0	Roadway/Open Space	-	-	0.01
7790	668549.0	4281135.0	Residential	0.49	0.002	0.01
7791	668559.0	4281135.0	Residential	0.54	0.002	0.02
7792	668569.0	4281135.0	Residential	0.60	0.002	0.02
7793	668579.0	4281135.0	Residential	0.67	0.003	0.02
7794	668589.0	4281135.0	Residential	0.75	0.003	0.02
7795	668599.0	4281135.0	Roadway/Open Space	-	-	0.02
7796	668609.0	4281135.0	Roadway/Open Space	-	-	0.03
7797	668619.0	4281135.0	Roadway/Open Space	-	-	0.03
7798	668629.0	4281135.0	Roadway/Open Space	-	-	0.03
7799	668639.0	4281135.0	Roadway/Open Space	-	-	0.04
7800	668649.0	4281135.0	Roadway/Open Space	-	-	0.04
7801	668659.0	4281135.0	Roadway/Open Space	-	-	0.03
7802	668669.0	4281135.0	Roadway/Open Space	-	-	0.03
7803	668679.0	4281135.0	Roadway/Open Space	-	-	0.03
7804	668689.0	4281135.0	Roadway/Open Space	-	-	0.03
7805	668699.0	4281135.0	Roadway/Open Space	-	-	0.03
7806	668709.0	4281135.0	Roadway/Open Space	-	-	0.03
7807	668719.0	4281135.0	Roadway/Open Space	-	-	0.03
7808	668729.0	4281135.0	Roadway/Open Space	-	-	0.03
7809	668739.0	4281135.0	Roadway/Open Space	-	-	0.04
7810	668749.0	4281135.0	Roadway/Open Space	-	-	0.04
7811	668759.0	4281135.0	Roadway/Open Space	-	-	0.04
7812	668769.0	4281135.0	Roadway/Open Space	-	-	0.04
7813	668779.0	4281135.0	Roadway/Open Space	-	-	0.04
7814	668789.0	4281135.0	Roadway/Open Space	-	-	0.06
7815	668799.0	4281135.0	Roadway/Open Space	-	-	0.06
7816	668809.0	4281135.0	Roadway/Open Space	-	-	0.06
7817	668819.0	4281135.0	Roadway/Open Space	-	-	0.07
7818	668829.0	4281135.0	Roadway/Open Space	-	-	0.07
7819	668839.0	4281135.0	Roadway/Open Space	-	-	0.06
7820	668849.0	4281135.0	Roadway/Open Space	-	-	0.06
7821	668859.0	4281135.0	Roadway/Open Space	-	-	0.07
7822	668869.0	4281135.0	Roadway/Open Space	-	-	0.07
7823	668879.0	4281135.0	Roadway/Open Space	-	-	0.08
7826	669289.0	4281135.0	Roadway/Open Space	-	-	0.05
7827	669299.0	4281135.0	Roadway/Open Space	-	-	0.05
7828	669309.0	4281135.0	Residential	4.63	0.019	0.04
7829	669319.0	4281135.0	Residential	4.35	0.018	0.04
7830	669329.0	4281135.0	Residential	4.11	0.017	0.04
7831	669339.0	4281135.0	Residential	3.88	0.016	0.04
7832	669349.0	4281135.0	Residential	3.69	0.015	0.04
7833	669359.0	4281135.0	Roadway/Open Space	-	-	0.04
7834	669369.0	4281135.0	Residential	3.49	0.014	0.04
7835	669379.0	4281135.0	Residential	3.42	0.014	0.04
7836	669389.0	4281135.0	Residential	3.37	0.014	0.05
7837	669399.0	4281135.0	Residential	3.30	0.014	0.05
7838	669409.0	4281135.0	Residential	3.16	0.013	0.05
7839	669419.0	4281135.0	Residential	2.96	0.012	0.04
7840	669429.0	4281135.0	Residential	2.78	0.011	0.04
7841	669439.0	4281135.0	Roadway/Open Space	-	-	0.04
7842	669449.0	4281135.0	Roadway/Open Space	-	-	0.04
7843	669459.0	4281135.0	Roadway/Open Space	-	-	0.04
7844	669469.0	4281135.0	Roadway/Open Space	-	-	0.04
7845	669479.0	4281135.0	Roadway/Open Space	-	-	0.04
7846	669489.0	4281135.0	Roadway/Open Space	-	-	0.03
7847	669499.0	4281135.0	Roadway/Open Space	-	-	0.03
7848	669509.0	4281135.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7849	669519.0	4281135.0	Roadway/Open Space	-	-	0.03
7850	669529.0	4281135.0	Roadway/Open Space	-	-	0.02
7851	668509.0	4281145.0	Roadway/Open Space	-	-	0.01
7852	668519.0	4281145.0	Roadway/Open Space	-	-	0.01
7853	668529.0	4281145.0	Roadway/Open Space	-	-	0.01
7854	668539.0	4281145.0	Roadway/Open Space	-	-	0.01
7855	668549.0	4281145.0	Residential	0.51	0.002	0.01
7856	668559.0	4281145.0	Residential	0.56	0.002	0.02
7857	668569.0	4281145.0	Residential	0.63	0.003	0.02
7858	668579.0	4281145.0	Residential	0.71	0.003	0.02
7859	668589.0	4281145.0	Residential	0.79	0.003	0.02
7860	668599.0	4281145.0	Roadway/Open Space	-	-	0.03
7861	668609.0	4281145.0	Roadway/Open Space	-	-	0.03
7862	668619.0	4281145.0	Roadway/Open Space	-	-	0.03
7863	668629.0	4281145.0	Roadway/Open Space	-	-	0.03
7864	668639.0	4281145.0	Roadway/Open Space	-	-	0.03
7865	668649.0	4281145.0	Roadway/Open Space	-	-	0.03
7866	668659.0	4281145.0	Roadway/Open Space	-	-	0.03
7867	668669.0	4281145.0	Roadway/Open Space	-	-	0.03
7868	668679.0	4281145.0	Roadway/Open Space	-	-	0.03
7869	668689.0	4281145.0	Roadway/Open Space	-	-	0.03
7870	668699.0	4281145.0	Roadway/Open Space	-	-	0.03
7871	668709.0	4281145.0	Roadway/Open Space	-	-	0.03
7872	668719.0	4281145.0	Roadway/Open Space	-	-	0.03
7873	668729.0	4281145.0	Roadway/Open Space	-	-	0.03
7874	668739.0	4281145.0	Roadway/Open Space	-	-	0.04
7875	668749.0	4281145.0	Roadway/Open Space	-	-	0.04
7876	668759.0	4281145.0	Roadway/Open Space	-	-	0.04
7877	668769.0	4281145.0	Roadway/Open Space	-	-	0.04
7878	668779.0	4281145.0	Roadway/Open Space	-	-	0.05
7879	668789.0	4281145.0	Roadway/Open Space	-	-	0.06
7880	668799.0	4281145.0	Roadway/Open Space	-	-	0.06
7881	668809.0	4281145.0	Roadway/Open Space	-	-	0.06
7882	668819.0	4281145.0	Roadway/Open Space	-	-	0.06
7883	668829.0	4281145.0	Roadway/Open Space	-	-	0.07
7884	668839.0	4281145.0	Roadway/Open Space	-	-	0.07
7885	668849.0	4281145.0	Roadway/Open Space	-	-	0.06
7886	668859.0	4281145.0	Roadway/Open Space	-	-	0.06
7887	668869.0	4281145.0	Roadway/Open Space	-	-	0.07
7888	668879.0	4281145.0	Roadway/Open Space	-	-	0.08
7889	669289.0	4281145.0	Roadway/Open Space	-	-	0.05
7890	669299.0	4281145.0	Roadway/Open Space	-	-	0.05
7891	669309.0	4281145.0	Residential	4.55	0.019	0.04
7892	669319.0	4281145.0	Residential	4.25	0.017	0.04
7893	669329.0	4281145.0	Residential	3.99	0.016	0.04
7894	669339.0	4281145.0	Residential	3.76	0.015	0.04
7895	669349.0	4281145.0	Residential	3.56	0.015	0.04
7896	669359.0	4281145.0	Roadway/Open Space	-	-	0.04
7897	669369.0	4281145.0	Residential	3.36	0.014	0.04
7898	669379.0	4281145.0	Residential	3.30	0.014	0.04
7899	669389.0	4281145.0	Residential	3.23	0.013	0.04
7900	669399.0	4281145.0	Residential	3.16	0.013	0.04
7901	669409.0	4281145.0	Residential	3.04	0.012	0.04
7902	669419.0	4281145.0	Residential	2.89	0.012	0.04
7903	669429.0	4281145.0	Residential	2.74	0.011	0.04
7904	669439.0	4281145.0	Residential	2.63	0.011	0.04
7905	669449.0	4281145.0	Roadway/Open Space	-	-	0.04
7906	669459.0	4281145.0	Roadway/Open Space	-	-	0.04
7907	669469.0	4281145.0	Roadway/Open Space	-	-	0.04
7908	669479.0	4281145.0	Roadway/Open Space	-	-	0.04
7909	669489.0	4281145.0	Roadway/Open Space	-	-	0.03
7910	669499.0	4281145.0	Roadway/Open Space	-	-	0.03
7911	669509.0	4281145.0	Roadway/Open Space	-	-	0.03
7912	669519.0	4281145.0	Roadway/Open Space	-	-	0.02
7913	668519.0	4281155.0	Roadway/Open Space	-	-	0.01
7914	668529.0	4281155.0	Roadway/Open Space	-	-	0.01
7915	668539.0	4281155.0	Residential	0.48	0.002	0.01
7916	668549.0	4281155.0	Residential	0.52	0.002	0.01
7917	668559.0	4281155.0	Residential	0.59	0.002	0.02
7918	668569.0	4281155.0	Residential	0.67	0.003	0.02
7919	668579.0	4281155.0	Residential	0.75	0.003	0.02
7920	668589.0	4281155.0	Roadway/Open Space	-	-	0.02
7921	668599.0	4281155.0	Roadway/Open Space	-	-	0.03
7922	668609.0	4281155.0	Roadway/Open Space	-	-	0.03
7923	668619.0	4281155.0	Roadway/Open Space	-	-	0.03
7924	668629.0	4281155.0	Roadway/Open Space	-	-	0.03
7925	668639.0	4281155.0	Roadway/Open Space	-	-	0.03
7926	668649.0	4281155.0	Roadway/Open Space	-	-	0.03
7927	668659.0	4281155.0	Roadway/Open Space	-	-	0.03
7928	668669.0	4281155.0	Roadway/Open Space	-	-	0.03
7929	668679.0	4281155.0	Roadway/Open Space	-	-	0.03
7930	668689.0	4281155.0	Roadway/Open Space	-	-	0.03
7931	668699.0	4281155.0	Roadway/Open Space	-	-	0.03
7932	668709.0	4281155.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7933	668719.0	4281155.0	Roadway/Open Space	-	-	0.03
7934	668729.0	4281155.0	Roadway/Open Space	-	-	0.03
7935	668739.0	4281155.0	Roadway/Open Space	-	-	0.04
7936	668749.0	4281155.0	Roadway/Open Space	-	-	0.04
7937	668759.0	4281155.0	Roadway/Open Space	-	-	0.04
7938	668769.0	4281155.0	Roadway/Open Space	-	-	0.05
7939	668779.0	4281155.0	Roadway/Open Space	-	-	0.05
7940	668789.0	4281155.0	Roadway/Open Space	-	-	0.06
7941	668799.0	4281155.0	Roadway/Open Space	-	-	0.06
7942	668809.0	4281155.0	Roadway/Open Space	-	-	0.06
7943	668819.0	4281155.0	Roadway/Open Space	-	-	0.06
7944	668829.0	4281155.0	Roadway/Open Space	-	-	0.07
7945	668839.0	4281155.0	Roadway/Open Space	-	-	0.07
7946	668849.0	4281155.0	Roadway/Open Space	-	-	0.07
7947	668859.0	4281155.0	Roadway/Open Space	-	-	0.07
7948	668869.0	4281155.0	Roadway/Open Space	-	-	0.07
7949	668879.0	4281155.0	Roadway/Open Space	-	-	0.08
7950	669289.0	4281155.0	Roadway/Open Space	-	-	0.05
7951	669299.0	4281155.0	Residential	4.80	0.020	0.05
7952	669309.0	4281155.0	Residential	4.48	0.018	0.04
7953	669319.0	4281155.0	Residential	4.17	0.017	0.04
7954	669329.0	4281155.0	Residential	3.91	0.016	0.04
7955	669339.0	4281155.0	Residential	3.67	0.015	0.03
7956	669349.0	4281155.0	Roadway/Open Space	-	-	0.03
7957	669359.0	4281155.0	Roadway/Open Space	-	-	0.03
7958	669369.0	4281155.0	Residential	3.26	0.013	0.04
7959	669379.0	4281155.0	Residential	3.19	0.013	0.04
7960	669389.0	4281155.0	Residential	3.11	0.013	0.04
7961	669399.0	4281155.0	Residential	3.04	0.013	0.04
7962	669409.0	4281155.0	Residential	2.92	0.012	0.04
7963	669419.0	4281155.0	Residential	2.80	0.012	0.04
7964	669429.0	4281155.0	Residential	2.68	0.011	0.04
7965	669439.0	4281155.0	Residential	2.56	0.011	0.04
7966	669449.0	4281155.0	Roadway/Open Space	-	-	0.04
7967	669459.0	4281155.0	Roadway/Open Space	-	-	0.04
7968	669469.0	4281155.0	Roadway/Open Space	-	-	0.04
7969	669479.0	4281155.0	Roadway/Open Space	-	-	0.03
7970	669489.0	4281155.0	Roadway/Open Space	-	-	0.03
7971	669499.0	4281155.0	Roadway/Open Space	-	-	0.03
7972	669509.0	4281155.0	Roadway/Open Space	-	-	0.02
7973	669519.0	4281155.0	Roadway/Open Space	-	-	0.02
7974	668519.0	4281165.0	Roadway/Open Space	-	-	0.01
7975	668529.0	4281165.0	Roadway/Open Space	-	-	0.01
7976	668539.0	4281165.0	Residential	0.49	0.002	0.01
7977	668549.0	4281165.0	Residential	0.54	0.002	0.02
7978	668559.0	4281165.0	Residential	0.61	0.003	0.02
7979	668569.0	4281165.0	Residential	0.69	0.003	0.02
7980	668579.0	4281165.0	Residential	0.79	0.003	0.02
7981	668589.0	4281165.0	Roadway/Open Space	-	-	0.03
7982	668599.0	4281165.0	Roadway/Open Space	-	-	0.03
7983	668609.0	4281165.0	Roadway/Open Space	-	-	0.03
7984	668619.0	4281165.0	Roadway/Open Space	-	-	0.03
7985	668629.0	4281165.0	Roadway/Open Space	-	-	0.03
7986	668639.0	4281165.0	Roadway/Open Space	-	-	0.03
7987	668649.0	4281165.0	Roadway/Open Space	-	-	0.02
7988	668659.0	4281165.0	Roadway/Open Space	-	-	0.03
7989	668669.0	4281165.0	Roadway/Open Space	-	-	0.03
7990	668679.0	4281165.0	Roadway/Open Space	-	-	0.03
7991	668689.0	4281165.0	Roadway/Open Space	-	-	0.03
7992	668699.0	4281165.0	Roadway/Open Space	-	-	0.03
7993	668709.0	4281165.0	Roadway/Open Space	-	-	0.03
7994	668719.0	4281165.0	Roadway/Open Space	-	-	0.03
7995	668729.0	4281165.0	Roadway/Open Space	-	-	0.03
7996	668739.0	4281165.0	Roadway/Open Space	-	-	0.03
7997	668749.0	4281165.0	Roadway/Open Space	-	-	0.04
7998	668759.0	4281165.0	Roadway/Open Space	-	-	0.04
7999	668769.0	4281165.0	Roadway/Open Space	-	-	0.05
8000	668779.0	4281165.0	Roadway/Open Space	-	-	0.05
8001	668789.0	4281165.0	Roadway/Open Space	-	-	0.05
8002	668799.0	4281165.0	Roadway/Open Space	-	-	0.06
8003	668809.0	4281165.0	Roadway/Open Space	-	-	0.06
8004	668819.0	4281165.0	Roadway/Open Space	-	-	0.06
8005	668829.0	4281165.0	Roadway/Open Space	-	-	0.07
8006	668839.0	4281165.0	Roadway/Open Space	-	-	0.07
8007	668849.0	4281165.0	Roadway/Open Space	-	-	0.07
8008	668859.0	4281165.0	Roadway/Open Space	-	-	0.07
8009	668869.0	4281165.0	Roadway/Open Space	-	-	0.07
8010	668879.0	4281165.0	Roadway/Open Space	-	-	0.08
8011	669289.0	4281165.0	Roadway/Open Space	-	-	0.05
8012	669299.0	4281165.0	Residential	4.72	0.019	0.05
8013	669309.0	4281165.0	Residential	4.41	0.018	0.05
8014	669319.0	4281165.0	Residential	4.11	0.017	0.04
8015	669329.0	4281165.0	Residential	3.85	0.016	0.04
8016	669339.0	4281165.0	Residential	3.63	0.015	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8017	669349.0	4281165.0	Roadway/Open Space	-	-	0.03
8018	669359.0	4281165.0	Residential	3.29	0.014	0.03
8019	669369.0	4281165.0	Residential	3.19	0.013	0.03
8020	669379.0	4281165.0	Residential	3.13	0.013	0.03
8021	669389.0	4281165.0	Residential	3.04	0.013	0.04
8022	669399.0	4281165.0	Residential	2.94	0.012	0.04
8023	669409.0	4281165.0	Residential	2.83	0.012	0.04
8024	669419.0	4281165.0	Residential	2.71	0.011	0.04
8025	669429.0	4281165.0	Residential	2.60	0.011	0.04
8026	669439.0	4281165.0	Residential	2.49	0.010	0.04
8027	669449.0	4281165.0	Roadway/Open Space	-	-	0.04
8028	669459.0	4281165.0	Roadway/Open Space	-	-	0.03
8029	669469.0	4281165.0	Roadway/Open Space	-	-	0.03
8030	669479.0	4281165.0	Roadway/Open Space	-	-	0.03
8031	669489.0	4281165.0	Roadway/Open Space	-	-	0.03
8032	669499.0	4281165.0	Roadway/Open Space	-	-	0.03
8033	669509.0	4281165.0	Roadway/Open Space	-	-	0.02
8034	669519.0	4281165.0	Roadway/Open Space	-	-	0.02
8035	668519.0	4281175.0	Roadway/Open Space	-	-	0.01
8036	668529.0	4281175.0	Residential	0.47	0.002	0.01
8037	668539.0	4281175.0	Residential	0.51	0.002	0.01
8038	668549.0	4281175.0	Residential	0.56	0.002	0.02
8039	668559.0	4281175.0	Residential	0.63	0.003	0.02
8040	668569.0	4281175.0	Residential	0.72	0.003	0.02
8041	668579.0	4281175.0	Roadway/Open Space	-	-	0.02
8042	668589.0	4281175.0	Roadway/Open Space	-	-	0.03
8043	668599.0	4281175.0	Roadway/Open Space	-	-	0.03
8044	668609.0	4281175.0	Roadway/Open Space	-	-	0.03
8045	668619.0	4281175.0	Roadway/Open Space	-	-	0.03
8046	668629.0	4281175.0	Roadway/Open Space	-	-	0.03
8047	668639.0	4281175.0	Roadway/Open Space	-	-	0.03
8048	668649.0	4281175.0	Roadway/Open Space	-	-	0.02
8049	668659.0	4281175.0	Roadway/Open Space	-	-	0.03
8050	668669.0	4281175.0	Roadway/Open Space	-	-	0.03
8051	668679.0	4281175.0	Roadway/Open Space	-	-	0.03
8052	668689.0	4281175.0	Roadway/Open Space	-	-	0.03
8053	668699.0	4281175.0	Roadway/Open Space	-	-	0.03
8054	668709.0	4281175.0	Roadway/Open Space	-	-	0.03
8055	668719.0	4281175.0	Roadway/Open Space	-	-	0.03
8056	668729.0	4281175.0	Roadway/Open Space	-	-	0.03
8057	668739.0	4281175.0	Roadway/Open Space	-	-	0.03
8058	668749.0	4281175.0	Roadway/Open Space	-	-	0.04
8059	668759.0	4281175.0	Roadway/Open Space	-	-	0.05
8060	668769.0	4281175.0	Roadway/Open Space	-	-	0.05
8061	668779.0	4281175.0	Roadway/Open Space	-	-	0.05
8062	668789.0	4281175.0	Roadway/Open Space	-	-	0.05
8063	668799.0	4281175.0	Roadway/Open Space	-	-	0.06
8064	668809.0	4281175.0	Roadway/Open Space	-	-	0.06
8065	668819.0	4281175.0	Roadway/Open Space	-	-	0.06
8066	668829.0	4281175.0	Roadway/Open Space	-	-	0.07
8067	668839.0	4281175.0	Roadway/Open Space	-	-	0.07
8068	668849.0	4281175.0	Roadway/Open Space	-	-	0.08
8069	668859.0	4281175.0	Roadway/Open Space	-	-	0.08
8070	668869.0	4281175.0	Roadway/Open Space	-	-	0.08
8071	668879.0	4281175.0	Roadway/Open Space	-	-	0.08
8072	669289.0	4281175.0	Residential	4.96	0.020	0.05
8073	669299.0	4281175.0	Residential	4.64	0.019	0.05
8074	669309.0	4281175.0	Residential	4.34	0.018	0.05
8075	669319.0	4281175.0	Residential	4.07	0.017	0.04
8076	669329.0	4281175.0	Residential	3.82	0.016	0.04
8077	669339.0	4281175.0	Residential	3.60	0.015	0.04
8078	669349.0	4281175.0	Roadway/Open Space	-	-	0.03
8079	669359.0	4281175.0	Residential	3.26	0.013	0.03
8080	669369.0	4281175.0	Residential	3.15	0.013	0.03
8081	669379.0	4281175.0	Residential	3.07	0.013	0.03
8082	669389.0	4281175.0	Residential	2.98	0.012	0.03
8083	669399.0	4281175.0	Residential	2.89	0.012	0.04
8084	669409.0	4281175.0	Residential	2.77	0.011	0.04
8085	669419.0	4281175.0	Residential	2.64	0.011	0.03
8086	669429.0	4281175.0	Residential	2.52	0.010	0.03
8087	669439.0	4281175.0	Roadway/Open Space	-	-	0.03
8088	669449.0	4281175.0	Roadway/Open Space	-	-	0.03
8089	669459.0	4281175.0	Roadway/Open Space	-	-	0.03
8090	669469.0	4281175.0	Roadway/Open Space	-	-	0.03
8091	669479.0	4281175.0	Roadway/Open Space	-	-	0.03
8092	669489.0	4281175.0	Roadway/Open Space	-	-	0.03
8093	669499.0	4281175.0	Roadway/Open Space	-	-	0.03
8094	669509.0	4281175.0	Roadway/Open Space	-	-	0.02
8095	669519.0	4281175.0	Roadway/Open Space	-	-	0.02
8096	668519.0	4281185.0	Roadway/Open Space	-	-	0.01
8097	668529.0	4281185.0	Residential	0.49	0.002	0.01
8098	668539.0	4281185.0	Residential	0.53	0.002	0.02
8099	668549.0	4281185.0	Residential	0.59	0.002	0.02
8100	668559.0	4281185.0	Residential	0.65	0.003	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8101	668569.0	4281185.0	Residential	0.75	0.003	0.02
8102	668579.0	4281185.0	Roadway/Open Space	-	-	0.02
8103	668589.0	4281185.0	Roadway/Open Space	-	-	0.03
8104	668599.0	4281185.0	Roadway/Open Space	-	-	0.03
8105	668609.0	4281185.0	Roadway/Open Space	-	-	0.03
8106	668619.0	4281185.0	Roadway/Open Space	-	-	0.03
8107	668629.0	4281185.0	Roadway/Open Space	-	-	0.03
8108	668639.0	4281185.0	Roadway/Open Space	-	-	0.03
8109	668649.0	4281185.0	Roadway/Open Space	-	-	0.02
8110	668659.0	4281185.0	Roadway/Open Space	-	-	0.03
8111	668669.0	4281185.0	Roadway/Open Space	-	-	0.03
8112	668679.0	4281185.0	Roadway/Open Space	-	-	0.03
8113	668689.0	4281185.0	Roadway/Open Space	-	-	0.03
8114	668699.0	4281185.0	Roadway/Open Space	-	-	0.03
8115	668709.0	4281185.0	Roadway/Open Space	-	-	0.03
8116	668719.0	4281185.0	Roadway/Open Space	-	-	0.03
8117	668729.0	4281185.0	Roadway/Open Space	-	-	0.03
8118	668739.0	4281185.0	Roadway/Open Space	-	-	0.03
8119	668749.0	4281185.0	Roadway/Open Space	-	-	0.04
8120	668759.0	4281185.0	Roadway/Open Space	-	-	0.05
8121	668769.0	4281185.0	Roadway/Open Space	-	-	0.05
8122	668779.0	4281185.0	Roadway/Open Space	-	-	0.05
8123	668789.0	4281185.0	Roadway/Open Space	-	-	0.05
8124	668799.0	4281185.0	Roadway/Open Space	-	-	0.06
8125	668809.0	4281185.0	Other Sensitive	4.60	0.019	0.06
8126	668819.0	4281185.0	Other Sensitive	4.96	0.020	0.06
8127	668829.0	4281185.0	Roadway/Open Space	-	-	0.07
8128	668839.0	4281185.0	Roadway/Open Space	-	-	0.07
8129	668849.0	4281185.0	Roadway/Open Space	-	-	0.08
8130	668859.0	4281185.0	Roadway/Open Space	-	-	0.08
8131	668869.0	4281185.0	Roadway/Open Space	-	-	0.07
8132	668879.0	4281185.0	Roadway/Open Space	-	-	0.08
8133	669289.0	4281185.0	Residential	4.84	0.020	0.05
8134	669299.0	4281185.0	Residential	4.55	0.019	0.05
8135	669309.0	4281185.0	Residential	4.28	0.018	0.05
8136	669319.0	4281185.0	Residential	4.03	0.017	0.04
8137	669329.0	4281185.0	Residential	3.79	0.016	0.04
8138	669339.0	4281185.0	Roadway/Open Space	-	-	0.04
8139	669349.0	4281185.0	Residential	3.38	0.014	0.04
8140	669359.0	4281185.0	Residential	3.23	0.013	0.03
8141	669369.0	4281185.0	Residential	3.12	0.013	0.03
8142	669379.0	4281185.0	Residential	3.02	0.012	0.03
8143	669389.0	4281185.0	Residential	2.94	0.012	0.04
8144	669399.0	4281185.0	Residential	2.85	0.012	0.04
8145	669409.0	4281185.0	Residential	2.72	0.011	0.03
8146	669419.0	4281185.0	Residential	2.57	0.011	0.03
8147	669429.0	4281185.0	Residential	2.45	0.010	0.03
8148	669439.0	4281185.0	Roadway/Open Space	-	-	0.03
8149	669449.0	4281185.0	Roadway/Open Space	-	-	0.03
8150	669459.0	4281185.0	Roadway/Open Space	-	-	0.03
8151	669469.0	4281185.0	Roadway/Open Space	-	-	0.03
8152	669479.0	4281185.0	Roadway/Open Space	-	-	0.03
8153	669489.0	4281185.0	Roadway/Open Space	-	-	0.03
8154	669499.0	4281185.0	Roadway/Open Space	-	-	0.03
8155	669509.0	4281185.0	Roadway/Open Space	-	-	0.02
8156	668519.0	4281195.0	Residential	0.47	0.002	0.01
8157	668529.0	4281195.0	Residential	0.51	0.002	0.01
8158	668539.0	4281195.0	Residential	0.56	0.002	0.02
8159	668549.0	4281195.0	Residential	0.62	0.003	0.02
8160	668559.0	4281195.0	Residential	0.69	0.003	0.02
8161	668569.0	4281195.0	Roadway/Open Space	-	-	0.02
8162	668579.0	4281195.0	Roadway/Open Space	-	-	0.03
8163	668589.0	4281195.0	Roadway/Open Space	-	-	0.03
8164	668599.0	4281195.0	Roadway/Open Space	-	-	0.03
8165	668609.0	4281195.0	Roadway/Open Space	-	-	0.03
8166	668619.0	4281195.0	Roadway/Open Space	-	-	0.03
8167	668629.0	4281195.0	Roadway/Open Space	-	-	0.03
8168	668639.0	4281195.0	Roadway/Open Space	-	-	0.03
8169	668649.0	4281195.0	Roadway/Open Space	-	-	0.02
8170	668659.0	4281195.0	Roadway/Open Space	-	-	0.03
8171	668669.0	4281195.0	Roadway/Open Space	-	-	0.03
8172	668679.0	4281195.0	Roadway/Open Space	-	-	0.03
8173	668689.0	4281195.0	Roadway/Open Space	-	-	0.03
8174	668699.0	4281195.0	Roadway/Open Space	-	-	0.03
8175	668709.0	4281195.0	Roadway/Open Space	-	-	0.03
8176	668719.0	4281195.0	Roadway/Open Space	-	-	0.03
8177	668729.0	4281195.0	Roadway/Open Space	-	-	0.03
8178	668739.0	4281195.0	Roadway/Open Space	-	-	0.03
8179	668749.0	4281195.0	Roadway/Open Space	-	-	0.04
8180	668759.0	4281195.0	Roadway/Open Space	-	-	0.05
8181	668769.0	4281195.0	Roadway/Open Space	-	-	0.05
8182	668779.0	4281195.0	Roadway/Open Space	-	-	0.05
8183	668789.0	4281195.0	Roadway/Open Space	-	-	0.05
8184	668799.0	4281195.0	Other Sensitive	4.22	0.017	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8185	668809.0	4281195.0	Other Sensitive	4.52	0.019	0.06
8186	668819.0	4281195.0	Other Sensitive	4.86	0.020	0.07
8187	668829.0	4281195.0	Other Sensitive	5.24	0.022	0.07
8188	668839.0	4281195.0	Roadway/Open Space	-	-	0.07
8189	668849.0	4281195.0	Roadway/Open Space	-	-	0.08
8190	668859.0	4281195.0	Roadway/Open Space	-	-	0.08
8191	668869.0	4281195.0	Roadway/Open Space	-	-	0.08
8192	668879.0	4281195.0	Roadway/Open Space	-	-	0.07
8193	669289.0	4281195.0	Residential	4.75	0.020	0.05
8194	669299.0	4281195.0	Residential	4.47	0.018	0.04
8195	669309.0	4281195.0	Residential	4.22	0.017	0.04
8196	669319.0	4281195.0	Residential	3.99	0.016	0.04
8197	669329.0	4281195.0	Residential	3.76	0.015	0.04
8198	669339.0	4281195.0	Roadway/Open Space	-	-	0.04
8199	669349.0	4281195.0	Residential	3.36	0.014	0.04
8200	669359.0	4281195.0	Residential	3.20	0.013	0.04
8201	669369.0	4281195.0	Residential	3.08	0.013	0.03
8202	669379.0	4281195.0	Residential	2.99	0.012	0.03
8203	669389.0	4281195.0	Residential	2.91	0.012	0.03
8204	669399.0	4281195.0	Residential	2.81	0.012	0.04
8205	669409.0	4281195.0	Residential	2.66	0.011	0.03
8206	669419.0	4281195.0	Residential	2.51	0.010	0.03
8207	669429.0	4281195.0	Residential	2.38	0.010	0.03
8208	669439.0	4281195.0	Roadway/Open Space	-	-	0.03
8209	669449.0	4281195.0	Roadway/Open Space	-	-	0.03
8210	669459.0	4281195.0	Roadway/Open Space	-	-	0.03
8211	669469.0	4281195.0	Roadway/Open Space	-	-	0.03
8212	669479.0	4281195.0	Roadway/Open Space	-	-	0.03
8213	669489.0	4281195.0	Roadway/Open Space	-	-	0.03
8214	669499.0	4281195.0	Roadway/Open Space	-	-	0.03
8215	669509.0	4281195.0	Roadway/Open Space	-	-	0.02
8216	668529.0	4281205.0	Residential	0.54	0.002	0.01
8217	668539.0	4281205.0	Residential	0.59	0.002	0.02
8218	668549.0	4281205.0	Residential	0.66	0.003	0.02
8219	668559.0	4281205.0	Residential	0.73	0.003	0.02
8220	668569.0	4281205.0	Roadway/Open Space	-	-	0.02
8221	668579.0	4281205.0	Roadway/Open Space	-	-	0.03
8222	668589.0	4281205.0	Roadway/Open Space	-	-	0.03
8223	668599.0	4281205.0	Roadway/Open Space	-	-	0.03
8224	668609.0	4281205.0	Roadway/Open Space	-	-	0.03
8225	668619.0	4281205.0	Roadway/Open Space	-	-	0.03
8226	668629.0	4281205.0	Roadway/Open Space	-	-	0.03
8227	668639.0	4281205.0	Roadway/Open Space	-	-	0.02
8228	668649.0	4281205.0	Roadway/Open Space	-	-	0.02
8229	668659.0	4281205.0	Roadway/Open Space	-	-	0.03
8230	668669.0	4281205.0	Roadway/Open Space	-	-	0.03
8231	668679.0	4281205.0	Roadway/Open Space	-	-	0.03
8232	668689.0	4281205.0	Roadway/Open Space	-	-	0.03
8233	668699.0	4281205.0	Roadway/Open Space	-	-	0.03
8234	668709.0	4281205.0	Roadway/Open Space	-	-	0.03
8235	668719.0	4281205.0	Roadway/Open Space	-	-	0.03
8236	668729.0	4281205.0	Roadway/Open Space	-	-	0.03
8237	668739.0	4281205.0	Roadway/Open Space	-	-	0.03
8238	668749.0	4281205.0	Roadway/Open Space	-	-	0.04
8239	668759.0	4281205.0	Roadway/Open Space	-	-	0.05
8240	668769.0	4281205.0	Roadway/Open Space	-	-	0.05
8241	668779.0	4281205.0	Roadway/Open Space	-	-	0.05
8242	668789.0	4281205.0	Other Sensitive	3.88	0.016	0.06
8243	668799.0	4281205.0	Other Sensitive	4.16	0.017	0.06
8244	668809.0	4281205.0	Other Sensitive	4.44	0.018	0.06
8245	668819.0	4281205.0	Other Sensitive	4.76	0.020	0.07
8246	668829.0	4281205.0	Other Sensitive	5.10	0.021	0.07
8247	668839.0	4281205.0	Other Sensitive	5.45	0.022	0.07
8248	668849.0	4281205.0	Roadway/Open Space	-	-	0.08
8249	668859.0	4281205.0	Roadway/Open Space	-	-	0.08
8250	668869.0	4281205.0	Roadway/Open Space	-	-	0.08
8251	668879.0	4281205.0	Roadway/Open Space	-	-	0.08
8252	669289.0	4281205.0	Roadway/Open Space	-	-	0.05
8253	669299.0	4281205.0	Residential	4.41	0.018	0.04
8254	669309.0	4281205.0	Residential	4.16	0.017	0.04
8255	669319.0	4281205.0	Residential	3.94	0.016	0.04
8256	669329.0	4281205.0	Roadway/Open Space	-	-	0.04
8257	669339.0	4281205.0	Residential	3.52	0.014	0.04
8258	669349.0	4281205.0	Residential	3.33	0.014	0.04
8259	669359.0	4281205.0	Residential	3.15	0.013	0.04
8260	669369.0	4281205.0	Residential	3.03	0.012	0.03
8261	669379.0	4281205.0	Residential	2.95	0.012	0.03
8262	669389.0	4281205.0	Residential	2.87	0.012	0.03
8263	669399.0	4281205.0	Residential	2.76	0.011	0.03
8264	669409.0	4281205.0	Residential	2.62	0.011	0.03
8265	669419.0	4281205.0	Residential	2.47	0.010	0.03
8266	669429.0	4281205.0	Residential	2.34	0.010	0.03
8267	669439.0	4281205.0	Roadway/Open Space	-	-	0.03
8268	669449.0	4281205.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8269	669459.0	4281205.0	Roadway/Open Space	-	-	0.03
8270	669469.0	4281205.0	Roadway/Open Space	-	-	0.03
8271	669479.0	4281205.0	Roadway/Open Space	-	-	0.03
8272	669489.0	4281205.0	Roadway/Open Space	-	-	0.03
8273	669499.0	4281205.0	Roadway/Open Space	-	-	0.03
8274	669509.0	4281205.0	Roadway/Open Space	-	-	0.02
8275	668529.0	4281215.0	Residential	0.56	0.002	0.01
8276	668539.0	4281215.0	Residential	0.62	0.003	0.02
8277	668549.0	4281215.0	Residential	0.69	0.003	0.02
8278	668559.0	4281215.0	Roadway/Open Space	-	-	0.02
8279	668569.0	4281215.0	Roadway/Open Space	-	-	0.02
8280	668579.0	4281215.0	Roadway/Open Space	-	-	0.03
8281	668589.0	4281215.0	Roadway/Open Space	-	-	0.03
8282	668599.0	4281215.0	Roadway/Open Space	-	-	0.03
8283	668609.0	4281215.0	Roadway/Open Space	-	-	0.03
8284	668619.0	4281215.0	Roadway/Open Space	-	-	0.03
8285	668629.0	4281215.0	Roadway/Open Space	-	-	0.03
8286	668639.0	4281215.0	Roadway/Open Space	-	-	0.02
8287	668649.0	4281215.0	Roadway/Open Space	-	-	0.02
8288	668659.0	4281215.0	Roadway/Open Space	-	-	0.02
8289	668669.0	4281215.0	Roadway/Open Space	-	-	0.02
8290	668679.0	4281215.0	Roadway/Open Space	-	-	0.03
8291	668689.0	4281215.0	Roadway/Open Space	-	-	0.03
8292	668699.0	4281215.0	Roadway/Open Space	-	-	0.03
8293	668709.0	4281215.0	Roadway/Open Space	-	-	0.03
8294	668719.0	4281215.0	Roadway/Open Space	-	-	0.03
8295	668729.0	4281215.0	Roadway/Open Space	-	-	0.03
8296	668739.0	4281215.0	Roadway/Open Space	-	-	0.04
8297	668749.0	4281215.0	Roadway/Open Space	-	-	0.04
8298	668759.0	4281215.0	Roadway/Open Space	-	-	0.05
8299	668769.0	4281215.0	Roadway/Open Space	-	-	0.05
8300	668779.0	4281215.0	Roadway/Open Space	-	-	0.05
8301	668789.0	4281215.0	Other Sensitive	3.83	0.016	0.06
8302	668799.0	4281215.0	Other Sensitive	4.09	0.017	0.06
8303	668809.0	4281215.0	Other Sensitive	4.36	0.018	0.06
8304	668819.0	4281215.0	Other Sensitive	4.66	0.019	0.07
8305	668829.0	4281215.0	Other Sensitive	4.95	0.020	0.07
8306	668839.0	4281215.0	Other Sensitive	5.25	0.022	0.07
8307	668849.0	4281215.0	Other Sensitive	5.63	0.023	0.07
8308	668859.0	4281215.0	Other Sensitive	6.04	0.025	0.08
8309	668869.0	4281215.0	Roadway/Open Space	-	-	0.08
8310	668879.0	4281215.0	Roadway/Open Space	-	-	0.08
8311	669289.0	4281215.0	Roadway/Open Space	-	-	0.05
8312	669299.0	4281215.0	Roadway/Open Space	-	-	0.05
8313	669309.0	4281215.0	Residential	4.11	0.017	0.04
8314	669319.0	4281215.0	Roadway/Open Space	-	-	0.04
8315	669329.0	4281215.0	Roadway/Open Space	-	-	0.04
8316	669339.0	4281215.0	Residential	3.50	0.014	0.03
8317	669349.0	4281215.0	Residential	3.30	0.014	0.03
8318	669359.0	4281215.0	Residential	3.11	0.013	0.03
8319	669369.0	4281215.0	Residential	2.99	0.012	0.03
8320	669379.0	4281215.0	Residential	2.91	0.012	0.03
8321	669389.0	4281215.0	Residential	2.84	0.012	0.03
8322	669399.0	4281215.0	Residential	2.73	0.011	0.03
8323	669409.0	4281215.0	Residential	2.58	0.011	0.03
8324	669419.0	4281215.0	Residential	2.43	0.010	0.03
8325	669429.0	4281215.0	Residential	2.31	0.009	0.03
8326	669439.0	4281215.0	Roadway/Open Space	-	-	0.03
8327	669449.0	4281215.0	Roadway/Open Space	-	-	0.03
8328	669459.0	4281215.0	Roadway/Open Space	-	-	0.03
8329	669469.0	4281215.0	Roadway/Open Space	-	-	0.03
8330	669479.0	4281215.0	Roadway/Open Space	-	-	0.03
8331	669489.0	4281215.0	Roadway/Open Space	-	-	0.03
8332	669499.0	4281215.0	Roadway/Open Space	-	-	0.03
8333	668529.0	4281225.0	Residential	0.57	0.002	0.01
8334	668539.0	4281225.0	Residential	0.63	0.003	0.02
8335	668549.0	4281225.0	Residential	0.70	0.003	0.02
8336	668559.0	4281225.0	Roadway/Open Space	-	-	0.02
8337	668569.0	4281225.0	Roadway/Open Space	-	-	0.03
8338	668579.0	4281225.0	Roadway/Open Space	-	-	0.03
8339	668589.0	4281225.0	Roadway/Open Space	-	-	0.03
8340	668599.0	4281225.0	Roadway/Open Space	-	-	0.03
8341	668609.0	4281225.0	Roadway/Open Space	-	-	0.03
8342	668619.0	4281225.0	Roadway/Open Space	-	-	0.03
8343	668629.0	4281225.0	Roadway/Open Space	-	-	0.03
8344	668639.0	4281225.0	Roadway/Open Space	-	-	0.02
8345	668649.0	4281225.0	Roadway/Open Space	-	-	0.02
8346	668659.0	4281225.0	Roadway/Open Space	-	-	0.02
8347	668669.0	4281225.0	Roadway/Open Space	-	-	0.02
8348	668679.0	4281225.0	Roadway/Open Space	-	-	0.03
8349	668689.0	4281225.0	Roadway/Open Space	-	-	0.03
8350	668699.0	4281225.0	Roadway/Open Space	-	-	0.03
8351	668709.0	4281225.0	Roadway/Open Space	-	-	0.03
8352	668719.0	4281225.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8353	668729.0	4281225.0	Roadway/Open Space	-	-	0.03
8354	668739.0	4281225.0	Roadway/Open Space	-	-	0.04
8355	668749.0	4281225.0	Roadway/Open Space	-	-	0.05
8356	668759.0	4281225.0	Roadway/Open Space	-	-	0.05
8357	668769.0	4281225.0	Roadway/Open Space	-	-	0.05
8358	668779.0	4281225.0	Other Sensitive	3.55	0.015	0.06
8359	668789.0	4281225.0	Other Sensitive	3.78	0.016	0.06
8360	668799.0	4281225.0	Other Sensitive	4.03	0.017	0.06
8361	668809.0	4281225.0	Other Sensitive	4.28	0.018	0.06
8362	668819.0	4281225.0	Other Sensitive	4.54	0.019	0.07
8363	668829.0	4281225.0	Other Sensitive	4.78	0.020	0.07
8364	668839.0	4281225.0	Other Sensitive	5.06	0.021	0.07
8365	668849.0	4281225.0	Other Sensitive	5.41	0.022	0.07
8366	668859.0	4281225.0	Other Sensitive	5.80	0.024	0.07
8367	668869.0	4281225.0	Other Sensitive	6.23	0.026	0.08
8368	668879.0	4281225.0	Roadway/Open Space	-	-	0.08
8369	668889.0	4281225.0	Roadway/Open Space	-	-	0.08
8370	668899.0	4281225.0	Roadway/Open Space	-	-	0.09
8371	668909.0	4281225.0	Roadway/Open Space	-	-	0.09
8372	668919.0	4281225.0	Roadway/Open Space	-	-	0.09
8373	668929.0	4281225.0	Roadway/Open Space	-	-	0.09
8374	669289.0	4281225.0	Roadway/Open Space	-	-	0.05
8375	669299.0	4281225.0	Roadway/Open Space	-	-	0.05
8376	669309.0	4281225.0	Roadway/Open Space	-	-	0.04
8377	669319.0	4281225.0	Roadway/Open Space	-	-	0.04
8378	669329.0	4281225.0	Residential	3.64	0.015	0.04
8379	669339.0	4281225.0	Residential	3.45	0.014	0.04
8380	669349.0	4281225.0	Residential	3.26	0.013	0.03
8381	669359.0	4281225.0	Residential	3.08	0.013	0.03
8382	669369.0	4281225.0	Residential	2.94	0.012	0.03
8383	669379.0	4281225.0	Residential	2.86	0.012	0.03
8384	669389.0	4281225.0	Residential	2.80	0.012	0.03
8385	669399.0	4281225.0	Residential	2.70	0.011	0.03
8386	669409.0	4281225.0	Residential	2.56	0.011	0.03
8387	669419.0	4281225.0	Residential	2.40	0.010	0.03
8388	669429.0	4281225.0	Residential	2.28	0.009	0.03
8389	669439.0	4281225.0	Roadway/Open Space	-	-	0.03
8390	669449.0	4281225.0	Residential	2.11	0.009	0.03
8391	669459.0	4281225.0	Residential	2.06	0.008	0.03
8392	669469.0	4281225.0	Residential	2.00	0.008	0.03
8393	669479.0	4281225.0	Residential	1.92	0.008	0.03
8394	669489.0	4281225.0	Roadway/Open Space	-	-	0.03
8395	669499.0	4281225.0	Roadway/Open Space	-	-	0.03
8396	668539.0	4281235.0	Residential	0.63	0.003	0.02
8397	668549.0	4281235.0	Roadway/Open Space	-	-	0.02
8398	668559.0	4281235.0	Roadway/Open Space	-	-	0.02
8399	668569.0	4281235.0	Roadway/Open Space	-	-	0.03
8400	668579.0	4281235.0	Roadway/Open Space	-	-	0.03
8401	668589.0	4281235.0	Roadway/Open Space	-	-	0.03
8402	668599.0	4281235.0	Roadway/Open Space	-	-	0.03
8403	668609.0	4281235.0	Roadway/Open Space	-	-	0.03
8404	668619.0	4281235.0	Roadway/Open Space	-	-	0.03
8405	668629.0	4281235.0	Roadway/Open Space	-	-	0.02
8406	668639.0	4281235.0	Roadway/Open Space	-	-	0.02
8407	668649.0	4281235.0	Roadway/Open Space	-	-	0.02
8408	668659.0	4281235.0	Roadway/Open Space	-	-	0.02
8409	668669.0	4281235.0	Roadway/Open Space	-	-	0.02
8410	668679.0	4281235.0	Roadway/Open Space	-	-	0.03
8411	668689.0	4281235.0	Roadway/Open Space	-	-	0.03
8412	668699.0	4281235.0	Roadway/Open Space	-	-	0.03
8413	668709.0	4281235.0	Roadway/Open Space	-	-	0.03
8414	668719.0	4281235.0	Roadway/Open Space	-	-	0.03
8415	668729.0	4281235.0	Roadway/Open Space	-	-	0.03
8416	668739.0	4281235.0	Roadway/Open Space	-	-	0.04
8417	668749.0	4281235.0	Roadway/Open Space	-	-	0.05
8418	668759.0	4281235.0	Roadway/Open Space	-	-	0.05
8419	668769.0	4281235.0	Other Sensitive	3.33	0.014	0.05
8420	668779.0	4281235.0	Other Sensitive	3.52	0.015	0.06
8421	668789.0	4281235.0	Other Sensitive	3.73	0.015	0.06
8422	668799.0	4281235.0	Other Sensitive	3.96	0.016	0.06
8423	668809.0	4281235.0	Other Sensitive	4.18	0.017	0.06
8424	668819.0	4281235.0	Other Sensitive	4.38	0.018	0.06
8425	668829.0	4281235.0	Other Sensitive	4.60	0.019	0.06
8426	668839.0	4281235.0	Other Sensitive	4.88	0.020	0.07
8427	668849.0	4281235.0	Other Sensitive	5.21	0.022	0.07
8428	668859.0	4281235.0	Other Sensitive	5.60	0.023	0.07
8429	668869.0	4281235.0	Other Sensitive	5.98	0.025	0.07
8430	668879.0	4281235.0	Other Sensitive	6.32	0.026	0.08
8431	668889.0	4281235.0	Other Sensitive	6.69	0.028	0.08
8432	668899.0	4281235.0	Roadway/Open Space	-	-	0.08
8433	668909.0	4281235.0	Roadway/Open Space	-	-	0.09
8434	668919.0	4281235.0	Roadway/Open Space	-	-	0.09
8435	668929.0	4281235.0	Roadway/Open Space	-	-	0.08
8436	668939.0	4281235.0	Roadway/Open Space	-	-	0.10

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8437	668949.0	4281235.0	Roadway/Open Space	-	-	0.13
8438	668959.0	4281235.0	Roadway/Open Space	-	-	0.14
8439	668969.0	4281235.0	Roadway/Open Space	-	-	0.14
8440	668979.0	4281235.0	Residential	10.43	0.043	0.14
8441	668989.0	4281235.0	Residential	10.64	0.044	0.15
8442	668999.0	4281235.0	Residential	10.81	0.045	0.14
8443	669009.0	4281235.0	Residential	10.91	0.046	0.14
8444	669019.0	4281235.0	Residential	10.92	0.046	0.14
8445	669029.0	4281235.0	Residential	10.89	0.045	0.13
8446	669039.0	4281235.0	Residential	10.94	0.046	0.13
8447	669049.0	4281235.0	Residential	10.97	0.046	0.13
8448	669059.0	4281235.0	Residential	10.88	0.045	0.12
8449	669069.0	4281235.0	Residential	10.99	0.046	0.12
8450	669079.0	4281235.0	Residential	11.04	0.046	0.12
8451	669089.0	4281235.0	Residential	10.87	0.046	0.12
8452	669099.0	4281235.0	Residential	10.61	0.044	0.11
8453	669109.0	4281235.0	Residential	10.32	0.043	0.11
8454	669119.0	4281235.0	Residential	10.05	0.042	0.11
8455	669129.0	4281235.0	Residential	9.69	0.041	0.09
8456	669139.0	4281235.0	Residential	9.33	0.039	0.09
8457	669149.0	4281235.0	Residential	8.94	0.037	0.09
8458	669159.0	4281235.0	Residential	8.53	0.036	0.09
8459	669169.0	4281235.0	Residential	8.12	0.034	0.08
8460	669179.0	4281235.0	Residential	7.72	0.032	0.07
8461	669289.0	4281235.0	Roadway/Open Space	-	-	0.04
8462	669299.0	4281235.0	Roadway/Open Space	-	-	0.04
8463	669309.0	4281235.0	Roadway/Open Space	-	-	0.04
8464	669319.0	4281235.0	Residential	3.75	0.015	0.04
8465	669329.0	4281235.0	Residential	3.56	0.015	0.04
8466	669339.0	4281235.0	Residential	3.38	0.014	0.04
8467	669349.0	4281235.0	Residential	3.21	0.013	0.03
8468	669359.0	4281235.0	Residential	3.04	0.013	0.03
8469	669369.0	4281235.0	Residential	2.90	0.012	0.03
8470	669379.0	4281235.0	Residential	2.81	0.012	0.03
8471	669389.0	4281235.0	Residential	2.74	0.011	0.03
8472	669399.0	4281235.0	Residential	2.65	0.011	0.03
8473	669409.0	4281235.0	Residential	2.51	0.010	0.03
8474	669419.0	4281235.0	Residential	2.36	0.010	0.03
8475	669429.0	4281235.0	Residential	2.25	0.009	0.03
8476	669439.0	4281235.0	Roadway/Open Space	-	-	0.03
8477	669449.0	4281235.0	Residential	2.07	0.009	0.03
8478	669459.0	4281235.0	Residential	2.01	0.008	0.03
8479	669469.0	4281235.0	Residential	1.94	0.008	0.03
8480	669479.0	4281235.0	Residential	1.86	0.008	0.03
8481	669489.0	4281235.0	Residential	1.79	0.007	0.03
8482	668539.0	4281245.0	Residential	0.64	0.003	0.02
8483	668549.0	4281245.0	Roadway/Open Space	-	-	0.02
8484	668559.0	4281245.0	Roadway/Open Space	-	-	0.02
8485	668569.0	4281245.0	Roadway/Open Space	-	-	0.03
8486	668579.0	4281245.0	Roadway/Open Space	-	-	0.03
8487	668589.0	4281245.0	Roadway/Open Space	-	-	0.03
8488	668599.0	4281245.0	Roadway/Open Space	-	-	0.03
8489	668609.0	4281245.0	Roadway/Open Space	-	-	0.03
8490	668619.0	4281245.0	Roadway/Open Space	-	-	0.03
8491	668629.0	4281245.0	Roadway/Open Space	-	-	0.02
8492	668639.0	4281245.0	Roadway/Open Space	-	-	0.02
8493	668649.0	4281245.0	Roadway/Open Space	-	-	0.02
8494	668659.0	4281245.0	Roadway/Open Space	-	-	0.02
8495	668669.0	4281245.0	Roadway/Open Space	-	-	0.02
8496	668679.0	4281245.0	Roadway/Open Space	-	-	0.03
8497	668689.0	4281245.0	Roadway/Open Space	-	-	0.03
8498	668699.0	4281245.0	Roadway/Open Space	-	-	0.03
8499	668709.0	4281245.0	Roadway/Open Space	-	-	0.03
8500	668719.0	4281245.0	Roadway/Open Space	-	-	0.03
8501	668729.0	4281245.0	Roadway/Open Space	-	-	0.04
8502	668739.0	4281245.0	Roadway/Open Space	-	-	0.04
8503	668749.0	4281245.0	Roadway/Open Space	-	-	0.05
8504	668759.0	4281245.0	Roadway/Open Space	-	-	0.05
8505	668769.0	4281245.0	Other Sensitive	3.30	0.014	0.05
8506	668779.0	4281245.0	Other Sensitive	3.47	0.014	0.06
8507	668789.0	4281245.0	Other Sensitive	3.67	0.015	0.06
8508	668799.0	4281245.0	Other Sensitive	3.88	0.016	0.06
8509	668809.0	4281245.0	Other Sensitive	4.08	0.017	0.06
8510	668819.0	4281245.0	Other Sensitive	4.25	0.018	0.06
8511	668829.0	4281245.0	Other Sensitive	4.45	0.018	0.06
8512	668839.0	4281245.0	Other Sensitive	4.71	0.019	0.06
8513	668849.0	4281245.0	Other Sensitive	5.03	0.021	0.07
8514	668859.0	4281245.0	Other Sensitive	5.39	0.022	0.07
8515	668869.0	4281245.0	Other Sensitive	5.71	0.024	0.07
8516	668879.0	4281245.0	Other Sensitive	6.03	0.025	0.08
8517	668889.0	4281245.0	Other Sensitive	6.37	0.026	0.08
8518	668899.0	4281245.0	Other Sensitive	6.77	0.028	0.08
8519	668909.0	4281245.0	Other Sensitive	7.16	0.030	0.08
8520	668919.0	4281245.0	Other Sensitive	7.59	0.031	0.09

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8521	668929.0	4281245.0	Other Sensitive	8.10	0.034	0.08
8522	668939.0	4281245.0	Other Sensitive	8.51	0.035	0.10
8523	668949.0	4281245.0	Other Sensitive	8.82	0.037	0.13
8524	668959.0	4281245.0	Other Sensitive	9.15	0.038	0.13
8525	668969.0	4281245.0	Roadway/Open Space	-	-	0.13
8526	668979.0	4281245.0	Residential	9.63	0.040	0.14
8527	668989.0	4281245.0	Residential	9.76	0.041	0.14
8528	668999.0	4281245.0	Residential	9.88	0.041	0.13
8529	669009.0	4281245.0	Residential	9.99	0.042	0.13
8530	669019.0	4281245.0	Residential	9.97	0.042	0.13
8531	669029.0	4281245.0	Residential	9.93	0.041	0.12
8532	669039.0	4281245.0	Residential	9.95	0.041	0.12
8533	669049.0	4281245.0	Residential	9.95	0.042	0.12
8534	669059.0	4281245.0	Residential	9.96	0.042	0.11
8535	669069.0	4281245.0	Residential	10.13	0.042	0.11
8536	669079.0	4281245.0	Residential	10.19	0.043	0.11
8537	669089.0	4281245.0	Residential	10.01	0.042	0.11
8538	669099.0	4281245.0	Residential	9.83	0.041	0.10
8539	669109.0	4281245.0	Residential	9.61	0.040	0.10
8540	669119.0	4281245.0	Residential	9.38	0.039	0.10
8541	669129.0	4281245.0	Residential	9.13	0.038	0.09
8542	669139.0	4281245.0	Residential	8.80	0.037	0.09
8543	669149.0	4281245.0	Residential	8.47	0.035	0.08
8544	669159.0	4281245.0	Residential	8.12	0.034	0.08
8545	669169.0	4281245.0	Residential	7.76	0.032	0.08
8546	669179.0	4281245.0	Residential	7.40	0.031	0.07
8547	669189.0	4281245.0	Residential	7.06	0.029	0.06
8548	669199.0	4281245.0	Residential	6.73	0.028	0.06
8549	669209.0	4281245.0	Residential	6.41	0.027	0.06
8550	669219.0	4281245.0	Residential	6.11	0.025	0.06
8551	669229.0	4281245.0	Residential	5.83	0.024	0.05
8552	669239.0	4281245.0	Residential	5.53	0.023	0.05
8553	669249.0	4281245.0	Roadway/Open Space	-	-	0.05
8554	669259.0	4281245.0	Roadway/Open Space	-	-	0.05
8555	669269.0	4281245.0	Roadway/Open Space	-	-	0.04
8556	669279.0	4281245.0	Roadway/Open Space	-	-	0.04
8557	669289.0	4281245.0	Roadway/Open Space	-	-	0.04
8558	669299.0	4281245.0	Roadway/Open Space	-	-	0.04
8559	669309.0	4281245.0	Residential	3.87	0.016	0.04
8560	669319.0	4281245.0	Residential	3.67	0.015	0.04
8561	669329.0	4281245.0	Residential	3.48	0.014	0.04
8562	669339.0	4281245.0	Residential	3.31	0.014	0.04
8563	669349.0	4281245.0	Residential	3.14	0.013	0.03
8564	669359.0	4281245.0	Residential	2.99	0.012	0.03
8565	669369.0	4281245.0	Residential	2.86	0.012	0.03
8566	669379.0	4281245.0	Residential	2.76	0.011	0.03
8567	669389.0	4281245.0	Residential	2.67	0.011	0.03
8568	669399.0	4281245.0	Residential	2.56	0.011	0.03
8569	669409.0	4281245.0	Residential	2.43	0.010	0.03
8570	669419.0	4281245.0	Residential	2.31	0.009	0.03
8571	669429.0	4281245.0	Roadway/Open Space	-	-	0.03
8572	669439.0	4281245.0	Roadway/Open Space	-	-	0.03
8573	669449.0	4281245.0	Residential	2.02	0.008	0.03
8574	669459.0	4281245.0	Residential	1.94	0.008	0.03
8575	669469.0	4281245.0	Residential	1.87	0.008	0.02
8576	669479.0	4281245.0	Residential	1.80	0.007	0.02
8577	669489.0	4281245.0	Residential	1.73	0.007	0.02
8578	668549.0	4281255.0	Roadway/Open Space	-	-	0.02
8579	668559.0	4281255.0	Roadway/Open Space	-	-	0.02
8580	668569.0	4281255.0	Roadway/Open Space	-	-	0.03
8581	668579.0	4281255.0	Roadway/Open Space	-	-	0.03
8582	668589.0	4281255.0	Roadway/Open Space	-	-	0.03
8583	668599.0	4281255.0	Roadway/Open Space	-	-	0.03
8584	668609.0	4281255.0	Roadway/Open Space	-	-	0.03
8585	668619.0	4281255.0	Roadway/Open Space	-	-	0.03
8586	668629.0	4281255.0	Roadway/Open Space	-	-	0.02
8587	668639.0	4281255.0	Roadway/Open Space	-	-	0.02
8588	668649.0	4281255.0	Roadway/Open Space	-	-	0.02
8589	668659.0	4281255.0	Roadway/Open Space	-	-	0.02
8590	668669.0	4281255.0	Roadway/Open Space	-	-	0.03
8591	668679.0	4281255.0	Roadway/Open Space	-	-	0.03
8592	668689.0	4281255.0	Roadway/Open Space	-	-	0.03
8593	668699.0	4281255.0	Roadway/Open Space	-	-	0.03
8594	668709.0	4281255.0	Roadway/Open Space	-	-	0.03
8595	668719.0	4281255.0	Roadway/Open Space	-	-	0.04
8596	668729.0	4281255.0	Roadway/Open Space	-	-	0.04
8597	668739.0	4281255.0	Roadway/Open Space	-	-	0.05
8598	668749.0	4281255.0	Roadway/Open Space	-	-	0.05
8599	668759.0	4281255.0	Other Sensitive	3.11	0.013	0.05
8600	668769.0	4281255.0	Other Sensitive	3.25	0.013	0.05
8601	668779.0	4281255.0	Other Sensitive	3.40	0.014	0.05
8602	668789.0	4281255.0	Other Sensitive	3.59	0.015	0.05
8603	668799.0	4281255.0	Other Sensitive	3.79	0.016	0.06
8604	668809.0	4281255.0	Other Sensitive	3.96	0.016	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8605	668819.0	4281255.0	Other Sensitive	4.12	0.017	0.06
8606	668829.0	4281255.0	Other Sensitive	4.31	0.018	0.06
8607	668839.0	4281255.0	Other Sensitive	4.57	0.019	0.06
8608	668849.0	4281255.0	Other Sensitive	4.86	0.020	0.07
8609	668859.0	4281255.0	Other Sensitive	5.17	0.021	0.07
8610	668869.0	4281255.0	Other Sensitive	5.45	0.023	0.07
8611	668879.0	4281255.0	Other Sensitive	5.76	0.024	0.07
8612	668889.0	4281255.0	Other Sensitive	6.10	0.025	0.07
8613	668899.0	4281255.0	Other Sensitive	6.47	0.027	0.08
8614	668909.0	4281255.0	Other Sensitive	6.83	0.028	0.08
8615	668919.0	4281255.0	Other Sensitive	7.23	0.030	0.08
8616	668929.0	4281255.0	Other Sensitive	7.67	0.032	0.09
8617	668939.0	4281255.0	Other Sensitive	8.00	0.033	0.11
8618	668949.0	4281255.0	Other Sensitive	8.28	0.034	0.12
8619	668959.0	4281255.0	Other Sensitive	8.55	0.036	0.12
8620	668969.0	4281255.0	Other Sensitive	8.74	0.036	0.13
8621	668979.0	4281255.0	Residential	8.89	0.037	0.13
8622	668989.0	4281255.0	Residential	8.99	0.037	0.13
8623	668999.0	4281255.0	Residential	9.04	0.038	0.12
8624	669009.0	4281255.0	Residential	9.09	0.038	0.12
8625	669019.0	4281255.0	Residential	9.05	0.038	0.12
8626	669029.0	4281255.0	Residential	9.01	0.038	0.11
8627	669039.0	4281255.0	Residential	9.04	0.038	0.11
8628	669049.0	4281255.0	Residential	9.05	0.038	0.10
8629	669059.0	4281255.0	Residential	9.17	0.038	0.10
8630	669069.0	4281255.0	Residential	9.39	0.039	0.11
8631	669079.0	4281255.0	Residential	9.44	0.039	0.11
8632	669089.0	4281255.0	Residential	9.26	0.039	0.10
8633	669099.0	4281255.0	Residential	9.13	0.038	0.10
8634	669109.0	4281255.0	Residential	9.01	0.038	0.09
8635	669119.0	4281255.0	Residential	8.79	0.037	0.09
8636	669129.0	4281255.0	Residential	8.56	0.036	0.09
8637	669139.0	4281255.0	Residential	8.31	0.035	0.08
8638	669149.0	4281255.0	Residential	8.03	0.034	0.08
8639	669159.0	4281255.0	Residential	7.73	0.032	0.07
8640	669169.0	4281255.0	Residential	7.41	0.031	0.07
8641	669179.0	4281255.0	Residential	7.09	0.029	0.07
8642	669189.0	4281255.0	Residential	6.78	0.028	0.06
8643	669199.0	4281255.0	Residential	6.48	0.027	0.06
8644	669209.0	4281255.0	Residential	6.18	0.026	0.05
8645	669219.0	4281255.0	Residential	5.90	0.024	0.05
8646	669229.0	4281255.0	Residential	5.62	0.023	0.05
8647	669239.0	4281255.0	Residential	5.35	0.022	0.05
8648	669249.0	4281255.0	Residential	5.08	0.021	0.04
8649	669259.0	4281255.0	Roadway/Open Space	-	-	0.04
8650	669269.0	4281255.0	Roadway/Open Space	-	-	0.04
8651	669279.0	4281255.0	Roadway/Open Space	-	-	0.04
8652	669289.0	4281255.0	Roadway/Open Space	-	-	0.04
8653	669299.0	4281255.0	Residential	3.99	0.016	0.04
8654	669309.0	4281255.0	Roadway/Open Space	-	-	0.04
8655	669319.0	4281255.0	Residential	3.60	0.015	0.03
8656	669329.0	4281255.0	Residential	3.41	0.014	0.03
8657	669339.0	4281255.0	Residential	3.24	0.013	0.03
8658	669349.0	4281255.0	Residential	3.08	0.013	0.03
8659	669359.0	4281255.0	Residential	2.93	0.012	0.03
8660	669369.0	4281255.0	Residential	2.81	0.012	0.03
8661	669379.0	4281255.0	Residential	2.70	0.011	0.03
8662	669389.0	4281255.0	Residential	2.59	0.011	0.03
8663	669399.0	4281255.0	Residential	2.47	0.010	0.03
8664	669409.0	4281255.0	Residential	2.36	0.010	0.03
8665	669419.0	4281255.0	Residential	2.24	0.009	0.03
8666	669429.0	4281255.0	Roadway/Open Space	-	-	0.03
8667	669439.0	4281255.0	Residential	2.05	0.008	0.02
8668	669449.0	4281255.0	Residential	1.96	0.008	0.02
8669	669459.0	4281255.0	Residential	1.88	0.008	0.02
8670	669469.0	4281255.0	Residential	1.80	0.007	0.02
8671	669479.0	4281255.0	Residential	1.73	0.007	0.02
8672	668549.0	4281265.0	Roadway/Open Space	-	-	0.02
8673	668559.0	4281265.0	Roadway/Open Space	-	-	0.02
8674	668569.0	4281265.0	Roadway/Open Space	-	-	0.03
8675	668579.0	4281265.0	Roadway/Open Space	-	-	0.03
8676	668589.0	4281265.0	Roadway/Open Space	-	-	0.03
8677	668599.0	4281265.0	Roadway/Open Space	-	-	0.03
8678	668609.0	4281265.0	Roadway/Open Space	-	-	0.03
8679	668619.0	4281265.0	Roadway/Open Space	-	-	0.03
8680	668629.0	4281265.0	Roadway/Open Space	-	-	0.02
8681	668639.0	4281265.0	Roadway/Open Space	-	-	0.02
8682	668649.0	4281265.0	Roadway/Open Space	-	-	0.02
8683	668659.0	4281265.0	Roadway/Open Space	-	-	0.02
8684	668669.0	4281265.0	Roadway/Open Space	-	-	0.03
8685	668679.0	4281265.0	Roadway/Open Space	-	-	0.03
8686	668689.0	4281265.0	Roadway/Open Space	-	-	0.03
8687	668699.0	4281265.0	Roadway/Open Space	-	-	0.03
8688	668709.0	4281265.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8689	668719.0	4281265.0	Roadway/Open Space	-	-	0.04
8690	668729.0	4281265.0	Roadway/Open Space	-	-	0.04
8691	668739.0	4281265.0	Roadway/Open Space	-	-	0.05
8692	668749.0	4281265.0	Other Sensitive	2.92	0.012	0.05
8693	668759.0	4281265.0	Other Sensitive	3.07	0.013	0.05
8694	668769.0	4281265.0	Other Sensitive	3.20	0.013	0.05
8695	668779.0	4281265.0	Other Sensitive	3.32	0.014	0.05
8696	668789.0	4281265.0	Other Sensitive	3.49	0.014	0.05
8697	668799.0	4281265.0	Other Sensitive	3.67	0.015	0.05
8698	668809.0	4281265.0	Other Sensitive	3.83	0.016	0.06
8699	668819.0	4281265.0	Other Sensitive	3.99	0.016	0.06
8700	668829.0	4281265.0	Other Sensitive	4.19	0.017	0.06
8701	668839.0	4281265.0	Other Sensitive	4.42	0.018	0.06
8702	668849.0	4281265.0	Other Sensitive	4.69	0.019	0.06
8703	668859.0	4281265.0	Other Sensitive	4.96	0.021	0.07
8704	668869.0	4281265.0	Other Sensitive	5.24	0.022	0.07
8705	668879.0	4281265.0	Other Sensitive	5.53	0.023	0.07
8706	668889.0	4281265.0	Other Sensitive	5.87	0.024	0.07
8707	668899.0	4281265.0	Other Sensitive	6.21	0.026	0.07
8708	668909.0	4281265.0	Other Sensitive	6.54	0.027	0.08
8709	668919.0	4281265.0	Other Sensitive	6.91	0.029	0.08
8710	668929.0	4281265.0	Other Sensitive	7.28	0.030	0.09
8711	668939.0	4281265.0	Other Sensitive	7.54	0.031	0.11
8712	668949.0	4281265.0	Other Sensitive	7.79	0.032	0.12
8713	668959.0	4281265.0	Other Sensitive	8.00	0.033	0.12
8714	668969.0	4281265.0	Other Sensitive	8.12	0.034	0.12
8715	668979.0	4281265.0	Residential	8.21	0.034	0.12
8716	668989.0	4281265.0	Residential	8.27	0.034	0.12
8717	668999.0	4281265.0	Residential	8.24	0.034	0.11
8718	669009.0	4281265.0	Residential	8.21	0.034	0.11
8719	669019.0	4281265.0	Residential	8.18	0.034	0.10
8720	669029.0	4281265.0	Residential	8.15	0.034	0.10
8721	669039.0	4281265.0	Residential	8.21	0.034	0.09
8722	669049.0	4281265.0	Residential	8.28	0.034	0.09
8723	669059.0	4281265.0	Residential	8.50	0.035	0.10
8724	669069.0	4281265.0	Residential	8.74	0.036	0.10
8725	669079.0	4281265.0	Residential	8.78	0.037	0.10
8726	669089.0	4281265.0	Residential	8.66	0.036	0.10
8727	669099.0	4281265.0	Residential	8.56	0.036	0.09
8728	669109.0	4281265.0	Residential	8.45	0.035	0.09
8729	669119.0	4281265.0	Residential	8.28	0.035	0.08
8730	669129.0	4281265.0	Residential	8.07	0.034	0.08
8731	669139.0	4281265.0	Residential	7.85	0.033	0.08
8732	669149.0	4281265.0	Residential	7.59	0.032	0.07
8733	669159.0	4281265.0	Residential	7.32	0.031	0.07
8734	669169.0	4281265.0	Residential	7.06	0.029	0.07
8735	669179.0	4281265.0	Residential	6.78	0.028	0.07
8736	669189.0	4281265.0	Residential	6.50	0.027	0.06
8737	669199.0	4281265.0	Residential	6.22	0.026	0.05
8738	669209.0	4281265.0	Residential	5.95	0.025	0.05
8739	669219.0	4281265.0	Residential	5.69	0.024	0.05
8740	669229.0	4281265.0	Residential	5.43	0.023	0.05
8741	669239.0	4281265.0	Residential	5.18	0.021	0.05
8742	669249.0	4281265.0	Residential	4.93	0.020	0.04
8743	669259.0	4281265.0	Roadway/Open Space	-	-	0.04
8744	669269.0	4281265.0	Roadway/Open Space	-	-	0.04
8745	669279.0	4281265.0	Residential	4.26	0.018	0.04
8746	669289.0	4281265.0	Residential	4.07	0.017	0.04
8747	669299.0	4281265.0	Residential	3.90	0.016	0.03
8748	669309.0	4281265.0	Residential	3.71	0.015	0.03
8749	669319.0	4281265.0	Roadway/Open Space	-	-	0.03
8750	669329.0	4281265.0	Residential	3.34	0.014	0.03
8751	669339.0	4281265.0	Residential	3.16	0.013	0.03
8752	669349.0	4281265.0	Residential	3.01	0.012	0.03
8753	669359.0	4281265.0	Residential	2.87	0.012	0.03
8754	669369.0	4281265.0	Residential	2.75	0.011	0.03
8755	669379.0	4281265.0	Residential	2.63	0.011	0.03
8756	669389.0	4281265.0	Residential	2.51	0.010	0.03
8757	669399.0	4281265.0	Residential	2.40	0.010	0.03
8758	669409.0	4281265.0	Residential	2.29	0.009	0.03
8759	669419.0	4281265.0	Roadway/Open Space	-	-	0.03
8760	669429.0	4281265.0	Roadway/Open Space	-	-	0.02
8761	669439.0	4281265.0	Residential	1.99	0.008	0.02
8762	669449.0	4281265.0	Residential	1.90	0.008	0.02
8763	669459.0	4281265.0	Residential	1.82	0.007	0.02
8764	669469.0	4281265.0	Residential	1.74	0.007	0.02
8765	669479.0	4281265.0	Residential	1.68	0.007	0.02
8766	668559.0	4281275.0	Roadway/Open Space	-	-	0.02
8767	668569.0	4281275.0	Roadway/Open Space	-	-	0.03
8768	668579.0	4281275.0	Roadway/Open Space	-	-	0.03
8769	668589.0	4281275.0	Roadway/Open Space	-	-	0.03
8770	668599.0	4281275.0	Roadway/Open Space	-	-	0.03
8771	668609.0	4281275.0	Roadway/Open Space	-	-	0.03
8772	668619.0	4281275.0	Roadway/Open Space	-	-	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8773	668629.0	4281275.0	Roadway/Open Space	-	-	0.02
8774	668639.0	4281275.0	Roadway/Open Space	-	-	0.02
8775	668649.0	4281275.0	Roadway/Open Space	-	-	0.02
8776	668659.0	4281275.0	Roadway/Open Space	-	-	0.03
8777	668669.0	4281275.0	Roadway/Open Space	-	-	0.03
8778	668679.0	4281275.0	Roadway/Open Space	-	-	0.03
8779	668689.0	4281275.0	Roadway/Open Space	-	-	0.03
8780	668699.0	4281275.0	Roadway/Open Space	-	-	0.03
8781	668709.0	4281275.0	Roadway/Open Space	-	-	0.04
8782	668719.0	4281275.0	Roadway/Open Space	-	-	0.04
8783	668729.0	4281275.0	Roadway/Open Space	-	-	0.04
8784	668739.0	4281275.0	Roadway/Open Space	-	-	0.05
8785	668749.0	4281275.0	Other Sensitive	2.86	0.012	0.05
8786	668759.0	4281275.0	Other Sensitive	3.02	0.012	0.05
8787	668769.0	4281275.0	Other Sensitive	3.14	0.013	0.05
8788	668779.0	4281275.0	Other Sensitive	3.25	0.013	0.05
8789	668789.0	4281275.0	Other Sensitive	3.40	0.014	0.05
8790	668799.0	4281275.0	Other Sensitive	3.55	0.015	0.05
8791	668809.0	4281275.0	Other Sensitive	3.69	0.015	0.05
8792	668819.0	4281275.0	Other Sensitive	3.86	0.016	0.06
8793	668829.0	4281275.0	Other Sensitive	4.06	0.017	0.06
8794	668839.0	4281275.0	Other Sensitive	4.28	0.018	0.06
8795	668849.0	4281275.0	Other Sensitive	4.53	0.019	0.06
8796	668859.0	4281275.0	Other Sensitive	4.78	0.020	0.07
8797	668869.0	4281275.0	Other Sensitive	5.04	0.021	0.07
8798	668879.0	4281275.0	Other Sensitive	5.34	0.022	0.07
8799	668889.0	4281275.0	Other Sensitive	5.67	0.023	0.07
8800	668899.0	4281275.0	Other Sensitive	5.97	0.025	0.07
8801	668909.0	4281275.0	Other Sensitive	6.27	0.026	0.08
8802	668919.0	4281275.0	Other Sensitive	6.61	0.027	0.08
8803	668929.0	4281275.0	Other Sensitive	6.90	0.029	0.09
8804	668939.0	4281275.0	Other Sensitive	7.12	0.030	0.11
8805	668949.0	4281275.0	Other Sensitive	7.35	0.031	0.11
8806	668959.0	4281275.0	Other Sensitive	7.51	0.031	0.11
8807	668969.0	4281275.0	Other Sensitive	7.59	0.032	0.12
8808	668979.0	4281275.0	Roadway/Open Space	-	-	0.12
8809	668989.0	4281275.0	Roadway/Open Space	-	-	0.11
8810	668999.0	4281275.0	Residential	7.51	0.031	0.10
8811	669009.0	4281275.0	Residential	7.42	0.031	0.10
8812	669019.0	4281275.0	Residential	7.39	0.031	0.09
8813	669029.0	4281275.0	Residential	7.40	0.031	0.09
8814	669039.0	4281275.0	Residential	7.47	0.031	0.08
8815	669049.0	4281275.0	Residential	7.59	0.032	0.09
8816	669059.0	4281275.0	Residential	7.83	0.033	0.09
8817	669069.0	4281275.0	Residential	8.10	0.034	0.09
8818	669079.0	4281275.0	Residential	8.20	0.034	0.09
8819	669089.0	4281275.0	Residential	8.14	0.034	0.09
8820	669099.0	4281275.0	Residential	8.03	0.034	0.09
8821	669109.0	4281275.0	Residential	7.94	0.033	0.08
8822	669119.0	4281275.0	Residential	7.81	0.033	0.08
8823	669129.0	4281275.0	Residential	7.63	0.032	0.08
8824	669139.0	4281275.0	Residential	7.42	0.031	0.07
8825	669149.0	4281275.0	Residential	7.19	0.030	0.07
8826	669159.0	4281275.0	Residential	6.96	0.029	0.07
8827	669169.0	4281275.0	Residential	6.72	0.028	0.06
8828	669179.0	4281275.0	Residential	6.48	0.027	0.06
8829	669189.0	4281275.0	Residential	6.23	0.026	0.06
8830	669199.0	4281275.0	Residential	5.97	0.025	0.05
8831	669209.0	4281275.0	Residential	5.73	0.024	0.05
8832	669219.0	4281275.0	Residential	5.48	0.023	0.05
8833	669229.0	4281275.0	Roadway/Open Space	-	-	0.05
8834	669239.0	4281275.0	Roadway/Open Space	-	-	0.04
8835	669249.0	4281275.0	Roadway/Open Space	-	-	0.04
8836	669259.0	4281275.0	Residential	4.57	0.019	0.04
8837	669269.0	4281275.0	Residential	4.35	0.018	0.04
8838	669279.0	4281275.0	Residential	4.14	0.017	0.04
8839	669289.0	4281275.0	Residential	3.95	0.016	0.03
8840	669299.0	4281275.0	Residential	3.78	0.016	0.03
8841	669309.0	4281275.0	Residential	3.61	0.015	0.03
8842	669319.0	4281275.0	Residential	3.43	0.014	0.03
8843	669329.0	4281275.0	Roadway/Open Space	-	-	0.03
8844	669339.0	4281275.0	Residential	3.09	0.013	0.03
8845	669349.0	4281275.0	Residential	2.93	0.012	0.03
8846	669359.0	4281275.0	Residential	2.80	0.011	0.03
8847	669369.0	4281275.0	Residential	2.68	0.011	0.03
8848	669379.0	4281275.0	Residential	2.56	0.011	0.03
8849	669389.0	4281275.0	Residential	2.45	0.010	0.03
8850	669399.0	4281275.0	Residential	2.35	0.010	0.03
8851	669409.0	4281275.0	Residential	2.24	0.009	0.03
8852	669419.0	4281275.0	Roadway/Open Space	-	-	0.03
8853	669429.0	4281275.0	Residential	2.04	0.008	0.02
8854	669439.0	4281275.0	Residential	1.95	0.008	0.02
8855	669449.0	4281275.0	Residential	1.86	0.008	0.02
8856	669459.0	4281275.0	Residential	1.77	0.007	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8857	669469.0	4281275.0	Residential	1.69	0.007	0.02
8858	668559.0	4281285.0	Roadway/Open Space	-	-	0.02
8859	668569.0	4281285.0	Roadway/Open Space	-	-	0.03
8860	668579.0	4281285.0	Roadway/Open Space	-	-	0.03
8861	668589.0	4281285.0	Roadway/Open Space	-	-	0.03
8862	668599.0	4281285.0	Roadway/Open Space	-	-	0.03
8863	668609.0	4281285.0	Roadway/Open Space	-	-	0.03
8864	668619.0	4281285.0	Roadway/Open Space	-	-	0.02
8865	668629.0	4281285.0	Roadway/Open Space	-	-	0.02
8866	668639.0	4281285.0	Roadway/Open Space	-	-	0.02
8867	668649.0	4281285.0	Roadway/Open Space	-	-	0.03
8868	668659.0	4281285.0	Roadway/Open Space	-	-	0.03
8869	668669.0	4281285.0	Roadway/Open Space	-	-	0.03
8870	668679.0	4281285.0	Roadway/Open Space	-	-	0.03
8871	668689.0	4281285.0	Roadway/Open Space	-	-	0.03
8872	668699.0	4281285.0	Roadway/Open Space	-	-	0.04
8873	668709.0	4281285.0	Roadway/Open Space	-	-	0.04
8874	668719.0	4281285.0	Roadway/Open Space	-	-	0.04
8875	668729.0	4281285.0	Roadway/Open Space	-	-	0.04
8876	668739.0	4281285.0	Other Sensitive	2.68	0.011	0.04
8877	668749.0	4281285.0	Other Sensitive	2.80	0.012	0.05
8878	668759.0	4281285.0	Other Sensitive	2.94	0.012	0.05
8879	668769.0	4281285.0	Other Sensitive	3.07	0.013	0.05
8880	668779.0	4281285.0	Other Sensitive	3.17	0.013	0.05
8881	668789.0	4281285.0	Other Sensitive	3.34	0.014	0.05
8882	668799.0	4281285.0	Other Sensitive	3.48	0.014	0.05
8883	668809.0	4281285.0	Other Sensitive	3.57	0.015	0.05
8884	668819.0	4281285.0	Other Sensitive	3.73	0.015	0.06
8885	668829.0	4281285.0	Other Sensitive	3.92	0.016	0.06
8886	668839.0	4281285.0	Other Sensitive	4.13	0.017	0.06
8887	668849.0	4281285.0	Other Sensitive	4.38	0.018	0.06
8888	668859.0	4281285.0	Other Sensitive	4.61	0.019	0.06
8889	668869.0	4281285.0	Other Sensitive	4.87	0.020	0.06
8890	668879.0	4281285.0	Other Sensitive	5.16	0.021	0.07
8891	668889.0	4281285.0	Other Sensitive	5.47	0.023	0.07
8892	668899.0	4281285.0	Other Sensitive	5.75	0.024	0.07
8893	668909.0	4281285.0	Other Sensitive	6.02	0.025	0.08
8894	668919.0	4281285.0	Other Sensitive	6.32	0.026	0.08
8895	668929.0	4281285.0	Other Sensitive	6.55	0.027	0.10
8896	668939.0	4281285.0	Other Sensitive	6.74	0.028	0.10
8897	668949.0	4281285.0	Other Sensitive	6.93	0.029	0.11
8898	668959.0	4281285.0	Other Sensitive	7.05	0.029	0.11
8899	668969.0	4281285.0	Residential	7.10	0.030	0.11
8900	668979.0	4281285.0	Residential	7.12	0.030	0.11
8901	668989.0	4281285.0	Residential	7.06	0.029	0.10
8902	668999.0	4281285.0	Roadway/Open Space	-	-	0.09
8903	669009.0	4281285.0	Roadway/Open Space	-	-	0.09
8904	669019.0	4281285.0	Residential	6.74	0.028	0.08
8905	669029.0	4281285.0	Residential	6.78	0.028	0.08
8906	669039.0	4281285.0	Residential	6.87	0.029	0.08
8907	669049.0	4281285.0	Residential	7.01	0.029	0.08
8908	669059.0	4281285.0	Roadway/Open Space	-	-	0.08
8909	669069.0	4281285.0	Roadway/Open Space	-	-	0.09
8910	669079.0	4281285.0	Roadway/Open Space	-	-	0.09
8911	669089.0	4281285.0	Roadway/Open Space	-	-	0.09
8912	669099.0	4281285.0	Roadway/Open Space	-	-	0.09
8913	669109.0	4281285.0	Roadway/Open Space	-	-	0.08
8914	669119.0	4281285.0	Roadway/Open Space	-	-	0.08
8915	669129.0	4281285.0	Roadway/Open Space	-	-	0.08
8916	669139.0	4281285.0	Roadway/Open Space	-	-	0.07
8917	669149.0	4281285.0	Roadway/Open Space	-	-	0.07
8918	669159.0	4281285.0	Roadway/Open Space	-	-	0.06
8919	669169.0	4281285.0	Roadway/Open Space	-	-	0.06
8920	669179.0	4281285.0	Roadway/Open Space	-	-	0.06
8921	669189.0	4281285.0	Roadway/Open Space	-	-	0.06
8922	669199.0	4281285.0	Roadway/Open Space	-	-	0.05
8923	669209.0	4281285.0	Roadway/Open Space	-	-	0.05
8924	669219.0	4281285.0	Roadway/Open Space	-	-	0.04
8925	669229.0	4281285.0	Residential	5.07	0.021	0.04
8926	669239.0	4281285.0	Residential	4.85	0.020	0.04
8927	669249.0	4281285.0	Residential	4.65	0.019	0.04
8928	669259.0	4281285.0	Residential	4.44	0.018	0.04
8929	669269.0	4281285.0	Residential	4.23	0.017	0.03
8930	669279.0	4281285.0	Residential	4.03	0.017	0.03
8931	669289.0	4281285.0	Residential	3.84	0.016	0.03
8932	669299.0	4281285.0	Residential	3.66	0.015	0.03
8933	669309.0	4281285.0	Residential	3.49	0.014	0.03
8934	669319.0	4281285.0	Residential	3.33	0.014	0.03
8935	669329.0	4281285.0	Residential	3.16	0.013	0.03
8936	669339.0	4281285.0	Roadway/Open Space	-	-	0.03
8937	669349.0	4281285.0	Roadway/Open Space	-	-	0.03
8938	669359.0	4281285.0	Residential	2.72	0.011	0.02
8939	669369.0	4281285.0	Residential	2.60	0.011	0.03
8940	669379.0	4281285.0	Residential	2.49	0.010	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8941	669389.0	4281285.0	Residential	2.40	0.010	0.03
8942	669399.0	4281285.0	Residential	2.31	0.009	0.03
8943	669409.0	4281285.0	Roadway/Open Space	-	-	0.02
8944	669419.0	4281285.0	Residential	2.10	0.009	0.02
8945	669429.0	4281285.0	Residential	2.01	0.008	0.02
8946	669439.0	4281285.0	Residential	1.91	0.008	0.02
8947	669449.0	4281285.0	Residential	1.82	0.007	0.02
8948	669459.0	4281285.0	Residential	1.73	0.007	0.02
8949	668569.0	4281295.0	Roadway/Open Space	-	-	0.03
8950	668579.0	4281295.0	Roadway/Open Space	-	-	0.03
8951	668589.0	4281295.0	Roadway/Open Space	-	-	0.03
8952	668599.0	4281295.0	Roadway/Open Space	-	-	0.03
8953	668609.0	4281295.0	Roadway/Open Space	-	-	0.03
8954	668619.0	4281295.0	Roadway/Open Space	-	-	0.02
8955	668629.0	4281295.0	Roadway/Open Space	-	-	0.02
8956	668639.0	4281295.0	Roadway/Open Space	-	-	0.03
8957	668649.0	4281295.0	Roadway/Open Space	-	-	0.03
8958	668659.0	4281295.0	Roadway/Open Space	-	-	0.03
8959	668669.0	4281295.0	Roadway/Open Space	-	-	0.03
8960	668679.0	4281295.0	Roadway/Open Space	-	-	0.03
8961	668689.0	4281295.0	Roadway/Open Space	-	-	0.03
8962	668699.0	4281295.0	Roadway/Open Space	-	-	0.04
8963	668709.0	4281295.0	Roadway/Open Space	-	-	0.04
8964	668719.0	4281295.0	Roadway/Open Space	-	-	0.04
8965	668729.0	4281295.0	Roadway/Open Space	-	-	0.04
8966	668739.0	4281295.0	Other Sensitive	2.61	0.011	0.04
8967	668749.0	4281295.0	Other Sensitive	2.73	0.011	0.04
8968	668759.0	4281295.0	Other Sensitive	2.85	0.012	0.05
8969	668769.0	4281295.0	Other Sensitive	2.95	0.012	0.05
8970	668779.0	4281295.0	Other Sensitive	3.06	0.013	0.05
8971	668789.0	4281295.0	Other Sensitive	3.22	0.013	0.05
8972	668799.0	4281295.0	Other Sensitive	3.35	0.014	0.05
8973	668809.0	4281295.0	Other Sensitive	3.45	0.014	0.05
8974	668819.0	4281295.0	Other Sensitive	3.61	0.015	0.05
8975	668829.0	4281295.0	Other Sensitive	3.79	0.016	0.06
8976	668839.0	4281295.0	Other Sensitive	4.00	0.017	0.06
8977	668849.0	4281295.0	Other Sensitive	4.22	0.017	0.06
8978	668859.0	4281295.0	Other Sensitive	4.45	0.018	0.06
8979	668869.0	4281295.0	Other Sensitive	4.70	0.019	0.06
8980	668879.0	4281295.0	Other Sensitive	4.99	0.021	0.06
8981	668889.0	4281295.0	Other Sensitive	5.28	0.022	0.07
8982	668899.0	4281295.0	Other Sensitive	5.53	0.023	0.07
8983	668909.0	4281295.0	Other Sensitive	5.77	0.024	0.08
8984	668919.0	4281295.0	Other Sensitive	6.02	0.025	0.09
8985	668929.0	4281295.0	Other Sensitive	6.23	0.026	0.10
8986	668939.0	4281295.0	Other Sensitive	6.40	0.027	0.10
8987	668949.0	4281295.0	Other Sensitive	6.55	0.027	0.10
8988	668959.0	4281295.0	Other Sensitive	6.64	0.028	0.11
8989	668969.0	4281295.0	Residential	6.65	0.028	0.11
8990	668979.0	4281295.0	Residential	6.65	0.028	0.10
8991	668989.0	4281295.0	Residential	6.57	0.027	0.10
8992	668999.0	4281295.0	Residential	6.40	0.027	0.09
8993	669009.0	4281295.0	Roadway/Open Space	-	-	0.08
8994	669019.0	4281295.0	Roadway/Open Space	-	-	0.07
8995	669029.0	4281295.0	Residential	6.25	0.026	0.07
8996	669039.0	4281295.0	Roadway/Open Space	-	-	0.07
8997	669049.0	4281295.0	Roadway/Open Space	-	-	0.07
8998	669059.0	4281295.0	Roadway/Open Space	-	-	0.08
8999	669069.0	4281295.0	Residential	6.91	0.029	0.08
9000	669079.0	4281295.0	Residential	7.13	0.030	0.08
9001	669089.0	4281295.0	Residential	7.18	0.030	0.08
9002	669099.0	4281295.0	Residential	7.14	0.030	0.08
9003	669109.0	4281295.0	Residential	7.07	0.030	0.08
9004	669119.0	4281295.0	Residential	6.98	0.029	0.07
9005	669129.0	4281295.0	Residential	6.85	0.029	0.07
9006	669139.0	4281295.0	Residential	6.67	0.028	0.07
9007	669149.0	4281295.0	Residential	6.48	0.027	0.06
9008	669159.0	4281295.0	Residential	6.30	0.026	0.06
9009	669169.0	4281295.0	Residential	6.11	0.025	0.06
9010	669179.0	4281295.0	Residential	5.91	0.025	0.05
9011	669189.0	4281295.0	Residential	5.71	0.024	0.05
9012	669199.0	4281295.0	Residential	5.50	0.023	0.05
9013	669209.0	4281295.0	Residential	5.29	0.022	0.05
9014	669219.0	4281295.0	Residential	5.08	0.021	0.04
9015	669229.0	4281295.0	Residential	4.89	0.020	0.04
9016	669239.0	4281295.0	Residential	4.69	0.019	0.04
9017	669249.0	4281295.0	Residential	4.50	0.019	0.04
9018	669259.0	4281295.0	Residential	4.32	0.018	0.04
9019	669269.0	4281295.0	Residential	4.12	0.017	0.03
9020	669279.0	4281295.0	Residential	3.92	0.016	0.03
9021	669289.0	4281295.0	Residential	3.73	0.015	0.03
9022	669299.0	4281295.0	Residential	3.56	0.015	0.03
9023	669309.0	4281295.0	Residential	3.39	0.014	0.03
9024	669319.0	4281295.0	Residential	3.23	0.013	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9025	669329.0	4281295.0	Residential	3.07	0.013	0.03
9026	669339.0	4281295.0	Residential	2.92	0.012	0.02
9027	669349.0	4281295.0	Roadway/Open Space	-	-	0.02
9028	669359.0	4281295.0	Roadway/Open Space	-	-	0.02
9029	669369.0	4281295.0	Residential	2.53	0.010	0.02
9030	669379.0	4281295.0	Residential	2.43	0.010	0.02
9031	669389.0	4281295.0	Residential	2.35	0.010	0.02
9032	669399.0	4281295.0	Roadway/Open Space	-	-	0.02
9033	669409.0	4281295.0	Residential	2.17	0.009	0.02
9034	669419.0	4281295.0	Residential	2.07	0.008	0.02
9035	669429.0	4281295.0	Residential	1.97	0.008	0.02
9036	669439.0	4281295.0	Residential	1.87	0.008	0.02
9037	669449.0	4281295.0	Residential	1.78	0.007	0.02
9038	669459.0	4281295.0	Residential	1.69	0.007	0.02
9039	668579.0	4281305.0	Roadway/Open Space	-	-	0.03
9040	668589.0	4281305.0	Roadway/Open Space	-	-	0.03
9041	668599.0	4281305.0	Roadway/Open Space	-	-	0.03
9042	668609.0	4281305.0	Roadway/Open Space	-	-	0.02
9043	668619.0	4281305.0	Roadway/Open Space	-	-	0.02
9044	668629.0	4281305.0	Roadway/Open Space	-	-	0.03
9045	668639.0	4281305.0	Roadway/Open Space	-	-	0.03
9046	668649.0	4281305.0	Roadway/Open Space	-	-	0.03
9047	668659.0	4281305.0	Roadway/Open Space	-	-	0.03
9048	668669.0	4281305.0	Roadway/Open Space	-	-	0.03
9049	668679.0	4281305.0	Roadway/Open Space	-	-	0.03
9050	668689.0	4281305.0	Roadway/Open Space	-	-	0.04
9051	668699.0	4281305.0	Roadway/Open Space	-	-	0.04
9052	668709.0	4281305.0	Roadway/Open Space	-	-	0.04
9053	668719.0	4281305.0	Roadway/Open Space	-	-	0.04
9054	668729.0	4281305.0	Other Sensitive	2.47	0.010	0.04
9055	668739.0	4281305.0	Other Sensitive	2.55	0.011	0.04
9056	668749.0	4281305.0	Other Sensitive	2.64	0.011	0.04
9057	668759.0	4281305.0	Other Sensitive	2.74	0.011	0.05
9058	668769.0	4281305.0	Other Sensitive	2.84	0.012	0.05
9059	668779.0	4281305.0	Other Sensitive	2.94	0.012	0.05
9060	668789.0	4281305.0	Other Sensitive	3.06	0.013	0.05
9061	668799.0	4281305.0	Other Sensitive	3.20	0.013	0.05
9062	668809.0	4281305.0	Other Sensitive	3.33	0.014	0.05
9063	668819.0	4281305.0	Other Sensitive	3.49	0.014	0.05
9064	668829.0	4281305.0	Other Sensitive	3.68	0.015	0.06
9065	668839.0	4281305.0	Other Sensitive	3.87	0.016	0.06
9066	668849.0	4281305.0	Other Sensitive	4.08	0.017	0.06
9067	668859.0	4281305.0	Other Sensitive	4.31	0.018	0.06
9068	668869.0	4281305.0	Other Sensitive	4.56	0.019	0.06
9069	668879.0	4281305.0	Other Sensitive	4.83	0.020	0.06
9070	668889.0	4281305.0	Other Sensitive	5.09	0.021	0.06
9071	668899.0	4281305.0	Other Sensitive	5.31	0.022	0.07
9072	668909.0	4281305.0	Other Sensitive	5.51	0.023	0.09
9073	668919.0	4281305.0	Other Sensitive	5.73	0.024	0.09
9074	668929.0	4281305.0	Other Sensitive	5.92	0.025	0.09
9075	668939.0	4281305.0	Other Sensitive	6.10	0.025	0.10
9076	668949.0	4281305.0	Other Sensitive	6.22	0.026	0.10
9077	668959.0	4281305.0	Residential	6.28	0.026	0.10
9078	668969.0	4281305.0	Residential	6.29	0.026	0.10
9079	668979.0	4281305.0	Residential	6.26	0.026	0.10
9080	668989.0	4281305.0	Residential	6.15	0.026	0.09
9081	668999.0	4281305.0	Residential	6.01	0.025	0.08
9082	669009.0	4281305.0	Residential	5.87	0.024	0.08
9083	669019.0	4281305.0	Roadway/Open Space	-	-	0.07
9084	669029.0	4281305.0	Roadway/Open Space	-	-	0.07
9085	669039.0	4281305.0	Residential	5.94	0.025	0.07
9086	669049.0	4281305.0	Residential	6.08	0.025	0.07
9087	669059.0	4281305.0	Residential	6.24	0.026	0.07
9088	669069.0	4281305.0	Residential	6.43	0.027	0.07
9089	669079.0	4281305.0	Residential	6.63	0.028	0.08
9090	669089.0	4281305.0	Residential	6.75	0.028	0.08
9091	669099.0	4281305.0	Residential	6.75	0.028	0.08
9092	669109.0	4281305.0	Residential	6.69	0.028	0.08
9093	669119.0	4281305.0	Residential	6.61	0.028	0.07
9094	669129.0	4281305.0	Residential	6.49	0.027	0.07
9095	669139.0	4281305.0	Residential	6.34	0.026	0.07
9096	669149.0	4281305.0	Residential	6.17	0.026	0.06
9097	669159.0	4281305.0	Residential	6.01	0.025	0.06
9098	669169.0	4281305.0	Residential	5.84	0.024	0.05
9099	669179.0	4281305.0	Residential	5.65	0.024	0.05
9100	669189.0	4281305.0	Residential	5.47	0.023	0.05
9101	669199.0	4281305.0	Residential	5.28	0.022	0.05
9102	669209.0	4281305.0	Residential	5.09	0.021	0.05
9103	669219.0	4281305.0	Residential	4.90	0.020	0.04
9104	669229.0	4281305.0	Residential	4.71	0.020	0.04
9105	669239.0	4281305.0	Residential	4.53	0.019	0.04
9106	669249.0	4281305.0	Residential	4.36	0.018	0.04
9107	669259.0	4281305.0	Residential	4.19	0.017	0.04
9108	669269.0	4281305.0	Residential	4.00	0.017	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9109	669279.0	4281305.0	Residential	3.81	0.016	0.03
9110	669289.0	4281305.0	Residential	3.63	0.015	0.03
9111	669299.0	4281305.0	Residential	3.46	0.014	0.03
9112	669309.0	4281305.0	Residential	3.30	0.014	0.03
9113	669319.0	4281305.0	Residential	3.14	0.013	0.03
9114	669329.0	4281305.0	Residential	2.99	0.012	0.02
9115	669339.0	4281305.0	Residential	2.84	0.012	0.02
9116	669349.0	4281305.0	Residential	2.70	0.011	0.02
9117	669359.0	4281305.0	Roadway/Open Space	-	-	0.02
9118	669369.0	4281305.0	Residential	2.46	0.010	0.02
9119	669379.0	4281305.0	Residential	2.37	0.010	0.02
9120	669389.0	4281305.0	Roadway/Open Space	-	-	0.02
9121	669399.0	4281305.0	Residential	2.23	0.009	0.02
9122	669409.0	4281305.0	Residential	2.14	0.009	0.02
9123	669419.0	4281305.0	Residential	2.04	0.008	0.02
9124	669429.0	4281305.0	Residential	1.93	0.008	0.02
9125	669439.0	4281305.0	Residential	1.83	0.008	0.02
9126	669449.0	4281305.0	Residential	1.74	0.007	0.02
9127	668579.0	4281315.0	Roadway/Open Space	-	-	0.03
9128	668589.0	4281315.0	Roadway/Open Space	-	-	0.03
9129	668599.0	4281315.0	Roadway/Open Space	-	-	0.03
9130	668609.0	4281315.0	Roadway/Open Space	-	-	0.02
9131	668619.0	4281315.0	Roadway/Open Space	-	-	0.02
9132	668629.0	4281315.0	Roadway/Open Space	-	-	0.03
9133	668639.0	4281315.0	Roadway/Open Space	-	-	0.03
9134	668649.0	4281315.0	Roadway/Open Space	-	-	0.03
9135	668659.0	4281315.0	Roadway/Open Space	-	-	0.03
9136	668669.0	4281315.0	Roadway/Open Space	-	-	0.03
9137	668679.0	4281315.0	Roadway/Open Space	-	-	0.03
9138	668689.0	4281315.0	Roadway/Open Space	-	-	0.04
9139	668699.0	4281315.0	Roadway/Open Space	-	-	0.04
9140	668709.0	4281315.0	Roadway/Open Space	-	-	0.04
9141	668719.0	4281315.0	Roadway/Open Space	-	-	0.04
9142	668729.0	4281315.0	Other Sensitive	2.41	0.010	0.04
9143	668739.0	4281315.0	Other Sensitive	2.48	0.010	0.04
9144	668749.0	4281315.0	Other Sensitive	2.56	0.011	0.04
9145	668759.0	4281315.0	Other Sensitive	2.64	0.011	0.04
9146	668769.0	4281315.0	Other Sensitive	2.72	0.011	0.05
9147	668779.0	4281315.0	Other Sensitive	2.81	0.012	0.05
9148	668789.0	4281315.0	Other Sensitive	2.93	0.012	0.05
9149	668799.0	4281315.0	Other Sensitive	3.06	0.013	0.05
9150	668809.0	4281315.0	Other Sensitive	3.21	0.013	0.05
9151	668819.0	4281315.0	Other Sensitive	3.38	0.014	0.05
9152	668829.0	4281315.0	Other Sensitive	3.57	0.015	0.05
9153	668839.0	4281315.0	Other Sensitive	3.76	0.016	0.05
9154	668849.0	4281315.0	Other Sensitive	3.97	0.016	0.06
9155	668859.0	4281315.0	Other Sensitive	4.19	0.017	0.06
9156	668869.0	4281315.0	Other Sensitive	4.41	0.018	0.06
9157	668879.0	4281315.0	Other Sensitive	4.64	0.019	0.06
9158	668889.0	4281315.0	Other Sensitive	4.88	0.020	0.06
9159	668899.0	4281315.0	Other Sensitive	5.08	0.021	0.08
9160	668909.0	4281315.0	Other Sensitive	5.25	0.022	0.09
9161	668919.0	4281315.0	Other Sensitive	5.45	0.023	0.09
9162	668929.0	4281315.0	Other Sensitive	5.64	0.023	0.09
9163	668939.0	4281315.0	Other Sensitive	5.81	0.024	0.09
9164	668949.0	4281315.0	Residential	5.93	0.025	0.10
9165	668959.0	4281315.0	Residential	5.98	0.025	0.10
9166	668969.0	4281315.0	Residential	5.96	0.025	0.10
9167	668979.0	4281315.0	Residential	5.88	0.025	0.09
9168	668989.0	4281315.0	Residential	5.78	0.024	0.09
9169	668999.0	4281315.0	Residential	5.69	0.024	0.08
9170	669009.0	4281315.0	Roadway/Open Space	-	-	0.08
9171	669019.0	4281315.0	Roadway/Open Space	-	-	0.07
9172	669029.0	4281315.0	Roadway/Open Space	-	-	0.07
9173	669039.0	4281315.0	Residential	5.56	0.023	0.06
9174	669049.0	4281315.0	Residential	5.68	0.024	0.07
9175	669059.0	4281315.0	Residential	5.86	0.024	0.07
9176	669069.0	4281315.0	Residential	6.02	0.025	0.07
9177	669079.0	4281315.0	Residential	6.19	0.026	0.07
9178	669089.0	4281315.0	Residential	6.33	0.026	0.07
9179	669099.0	4281315.0	Residential	6.37	0.027	0.07
9180	669109.0	4281315.0	Residential	6.34	0.026	0.07
9181	669119.0	4281315.0	Residential	6.28	0.026	0.07
9182	669129.0	4281315.0	Residential	6.16	0.026	0.06
9183	669139.0	4281315.0	Residential	6.02	0.025	0.06
9184	669149.0	4281315.0	Residential	5.87	0.024	0.06
9185	669159.0	4281315.0	Residential	5.72	0.024	0.06
9186	669169.0	4281315.0	Residential	5.55	0.023	0.05
9187	669179.0	4281315.0	Residential	5.39	0.022	0.05
9188	669189.0	4281315.0	Residential	5.22	0.022	0.05
9189	669199.0	4281315.0	Residential	5.06	0.021	0.04
9190	669209.0	4281315.0	Residential	4.89	0.020	0.04
9191	669219.0	4281315.0	Residential	4.71	0.020	0.04
9192	669229.0	4281315.0	Residential	4.54	0.019	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9193	669239.0	4281315.0	Residential	4.37	0.018	0.04
9194	669249.0	4281315.0	Residential	4.20	0.017	0.03
9195	669259.0	4281315.0	Residential	4.04	0.017	0.03
9196	669269.0	4281315.0	Residential	3.87	0.016	0.03
9197	669279.0	4281315.0	Residential	3.70	0.015	0.03
9198	669289.0	4281315.0	Residential	3.53	0.015	0.03
9199	669299.0	4281315.0	Residential	3.37	0.014	0.03
9200	669309.0	4281315.0	Residential	3.21	0.013	0.03
9201	669319.0	4281315.0	Residential	3.06	0.013	0.02
9202	669329.0	4281315.0	Residential	2.92	0.012	0.02
9203	669339.0	4281315.0	Residential	2.78	0.011	0.02
9204	669349.0	4281315.0	Residential	2.64	0.011	0.02
9205	669359.0	4281315.0	Residential	2.51	0.010	0.02
9206	669369.0	4281315.0	Roadway/Open Space	-	-	0.02
9207	669379.0	4281315.0	Roadway/Open Space	-	-	0.02
9208	669389.0	4281315.0	Residential	2.25	0.009	0.02
9209	669399.0	4281315.0	Residential	2.20	0.009	0.02
9210	669409.0	4281315.0	Residential	2.12	0.009	0.02
9211	669419.0	4281315.0	Residential	2.01	0.008	0.02
9212	669429.0	4281315.0	Residential	1.90	0.008	0.02
9213	669439.0	4281315.0	Residential	1.80	0.007	0.02
9214	668589.0	4281325.0	Roadway/Open Space	-	-	0.03
9215	668599.0	4281325.0	Roadway/Open Space	-	-	0.03
9216	668609.0	4281325.0	Roadway/Open Space	-	-	0.02
9217	668619.0	4281325.0	Roadway/Open Space	-	-	0.02
9218	668629.0	4281325.0	Roadway/Open Space	-	-	0.03
9219	668639.0	4281325.0	Roadway/Open Space	-	-	0.03
9220	668649.0	4281325.0	Roadway/Open Space	-	-	0.03
9221	668659.0	4281325.0	Roadway/Open Space	-	-	0.03
9222	668669.0	4281325.0	Roadway/Open Space	-	-	0.03
9223	668679.0	4281325.0	Roadway/Open Space	-	-	0.03
9224	668689.0	4281325.0	Roadway/Open Space	-	-	0.03
9225	668699.0	4281325.0	Roadway/Open Space	-	-	0.04
9226	668709.0	4281325.0	Roadway/Open Space	-	-	0.04
9227	668719.0	4281325.0	Other Sensitive	2.30	0.009	0.04
9228	668729.0	4281325.0	Other Sensitive	2.36	0.010	0.04
9229	668739.0	4281325.0	Other Sensitive	2.42	0.010	0.04
9230	668749.0	4281325.0	Other Sensitive	2.48	0.010	0.04
9231	668759.0	4281325.0	Other Sensitive	2.56	0.011	0.04
9232	668769.0	4281325.0	Other Sensitive	2.63	0.011	0.04
9233	668779.0	4281325.0	Other Sensitive	2.71	0.011	0.04
9234	668789.0	4281325.0	Other Sensitive	2.81	0.012	0.05
9235	668799.0	4281325.0	Other Sensitive	2.95	0.012	0.05
9236	668809.0	4281325.0	Other Sensitive	3.11	0.013	0.05
9237	668819.0	4281325.0	Other Sensitive	3.29	0.014	0.05
9238	668829.0	4281325.0	Other Sensitive	3.47	0.014	0.05
9239	668839.0	4281325.0	Other Sensitive	3.66	0.015	0.05
9240	668849.0	4281325.0	Other Sensitive	3.85	0.016	0.05
9241	668859.0	4281325.0	Other Sensitive	4.05	0.017	0.06
9242	668869.0	4281325.0	Other Sensitive	4.24	0.018	0.06
9243	668879.0	4281325.0	Other Sensitive	4.46	0.018	0.06
9244	668889.0	4281325.0	Other Sensitive	4.67	0.019	0.07
9245	668899.0	4281325.0	Other Sensitive	4.84	0.020	0.08
9246	668909.0	4281325.0	Other Sensitive	5.01	0.021	0.08
9247	668919.0	4281325.0	Other Sensitive	5.19	0.022	0.08
9248	668929.0	4281325.0	Other Sensitive	5.38	0.022	0.09
9249	668939.0	4281325.0	Other Sensitive	5.54	0.023	0.09
9250	668949.0	4281325.0	Residential	5.67	0.024	0.10
9251	668959.0	4281325.0	Residential	5.71	0.024	0.10
9252	668969.0	4281325.0	Residential	5.64	0.024	0.09
9253	668979.0	4281325.0	Residential	5.56	0.023	0.09
9254	668989.0	4281325.0	Residential	5.47	0.023	0.08
9255	668999.0	4281325.0	Roadway/Open Space	-	-	0.08
9256	669009.0	4281325.0	Residential	5.33	0.022	0.08
9257	669019.0	4281325.0	Residential	5.28	0.022	0.07
9258	669029.0	4281325.0	Roadway/Open Space	-	-	0.07
9259	669039.0	4281325.0	Roadway/Open Space	-	-	0.06
9260	669049.0	4281325.0	Residential	5.33	0.022	0.06
9261	669059.0	4281325.0	Residential	5.50	0.023	0.07
9262	669069.0	4281325.0	Residential	5.68	0.024	0.07
9263	669079.0	4281325.0	Residential	5.83	0.024	0.07
9264	669089.0	4281325.0	Residential	5.96	0.025	0.07
9265	669099.0	4281325.0	Residential	6.02	0.025	0.07
9266	669109.0	4281325.0	Residential	6.01	0.025	0.07
9267	669119.0	4281325.0	Residential	5.96	0.025	0.07
9268	669129.0	4281325.0	Residential	5.85	0.024	0.06
9269	669139.0	4281325.0	Residential	5.72	0.024	0.06
9270	669149.0	4281325.0	Residential	5.58	0.023	0.06
9271	669159.0	4281325.0	Residential	5.44	0.023	0.05
9272	669169.0	4281325.0	Residential	5.29	0.022	0.05
9273	669179.0	4281325.0	Residential	5.15	0.021	0.05
9274	669189.0	4281325.0	Residential	5.01	0.021	0.05
9275	669199.0	4281325.0	Residential	4.85	0.020	0.04
9276	669209.0	4281325.0	Residential	4.70	0.020	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9277	669219.0	4281325.0	Residential	4.54	0.019	0.04
9278	669229.0	4281325.0	Residential	4.38	0.018	0.04
9279	669239.0	4281325.0	Residential	4.21	0.017	0.03
9280	669249.0	4281325.0	Residential	4.04	0.017	0.03
9281	669259.0	4281325.0	Residential	3.89	0.016	0.03
9282	669269.0	4281325.0	Residential	3.73	0.015	0.03
9283	669279.0	4281325.0	Residential	3.58	0.015	0.03
9284	669289.0	4281325.0	Residential	3.42	0.014	0.03
9285	669299.0	4281325.0	Residential	3.27	0.013	0.02
9286	669309.0	4281325.0	Residential	3.13	0.013	0.02
9287	669319.0	4281325.0	Residential	2.98	0.012	0.02
9288	669329.0	4281325.0	Residential	2.84	0.012	0.02
9289	669339.0	4281325.0	Residential	2.71	0.011	0.02
9290	669349.0	4281325.0	Residential	2.58	0.011	0.02
9291	669359.0	4281325.0	Roadway/Open Space	-	-	0.02
9292	669369.0	4281325.0	Roadway/Open Space	-	-	0.02
9293	669379.0	4281325.0	Roadway/Open Space	-	-	0.02
9294	669389.0	4281325.0	Residential	2.21	0.009	0.02
9295	669399.0	4281325.0	Residential	2.17	0.009	0.02
9296	669409.0	4281325.0	Residential	2.10	0.009	0.02
9297	669419.0	4281325.0	Residential	1.99	0.008	0.02
9298	669429.0	4281325.0	Residential	1.87	0.008	0.02
9299	668599.0	4281335.0	Roadway/Open Space	-	-	0.03
9300	668609.0	4281335.0	Roadway/Open Space	-	-	0.02
9301	668619.0	4281335.0	Roadway/Open Space	-	-	0.02
9302	668629.0	4281335.0	Roadway/Open Space	-	-	0.02
9303	668639.0	4281335.0	Roadway/Open Space	-	-	0.03
9304	668649.0	4281335.0	Roadway/Open Space	-	-	0.03
9305	668659.0	4281335.0	Roadway/Open Space	-	-	0.03
9306	668669.0	4281335.0	Roadway/Open Space	-	-	0.03
9307	668679.0	4281335.0	Roadway/Open Space	-	-	0.03
9308	668689.0	4281335.0	Roadway/Open Space	-	-	0.03
9309	668699.0	4281335.0	Roadway/Open Space	-	-	0.04
9310	668709.0	4281335.0	Roadway/Open Space	-	-	0.04
9311	668719.0	4281335.0	Other Sensitive	2.27	0.009	0.04
9312	668729.0	4281335.0	Other Sensitive	2.32	0.010	0.04
9313	668739.0	4281335.0	Other Sensitive	2.37	0.010	0.04
9314	668749.0	4281335.0	Other Sensitive	2.43	0.010	0.04
9315	668759.0	4281335.0	Other Sensitive	2.49	0.010	0.04
9316	668769.0	4281335.0	Other Sensitive	2.55	0.011	0.04
9317	668779.0	4281335.0	Other Sensitive	2.62	0.011	0.04
9318	668789.0	4281335.0	Other Sensitive	2.72	0.011	0.04
9319	668799.0	4281335.0	Other Sensitive	2.86	0.012	0.05
9320	668809.0	4281335.0	Other Sensitive	3.02	0.013	0.05
9321	668819.0	4281335.0	Other Sensitive	3.19	0.013	0.05
9322	668829.0	4281335.0	Other Sensitive	3.37	0.014	0.05
9323	668839.0	4281335.0	Other Sensitive	3.55	0.015	0.05
9324	668849.0	4281335.0	Other Sensitive	3.72	0.015	0.05
9325	668859.0	4281335.0	Other Sensitive	3.88	0.016	0.05
9326	668869.0	4281335.0	Other Sensitive	4.07	0.017	0.06
9327	668879.0	4281335.0	Other Sensitive	4.29	0.018	0.06
9328	668889.0	4281335.0	Other Sensitive	4.47	0.019	0.07
9329	668899.0	4281335.0	Other Sensitive	4.62	0.019	0.08
9330	668909.0	4281335.0	Other Sensitive	4.78	0.020	0.08
9331	668919.0	4281335.0	Other Sensitive	4.96	0.021	0.08
9332	668929.0	4281335.0	Other Sensitive	5.14	0.021	0.09
9333	668939.0	4281335.0	Residential	5.29	0.022	0.09
9334	668949.0	4281335.0	Residential	5.40	0.023	0.09
9335	668959.0	4281335.0	Residential	5.41	0.023	0.09
9336	668969.0	4281335.0	Residential	5.34	0.022	0.09
9337	668979.0	4281335.0	Residential	5.26	0.022	0.08
9338	668989.0	4281335.0	Roadway/Open Space	-	-	0.08
9339	668999.0	4281335.0	Residential	5.12	0.021	0.08
9340	669009.0	4281335.0	Residential	5.07	0.021	0.07
9341	669019.0	4281335.0	Residential	5.02	0.021	0.07
9342	669029.0	4281335.0	Residential	4.99	0.021	0.07
9343	669039.0	4281335.0	Roadway/Open Space	-	-	0.06
9344	669049.0	4281335.0	Residential	5.02	0.021	0.06
9345	669059.0	4281335.0	Residential	5.16	0.021	0.06
9346	669069.0	4281335.0	Residential	5.36	0.022	0.06
9347	669079.0	4281335.0	Residential	5.52	0.023	0.07
9348	669089.0	4281335.0	Residential	5.63	0.023	0.07
9349	669099.0	4281335.0	Residential	5.70	0.024	0.07
9350	669109.0	4281335.0	Residential	5.70	0.024	0.07
9351	669119.0	4281335.0	Residential	5.65	0.024	0.06
9352	669129.0	4281335.0	Residential	5.55	0.023	0.06
9353	669139.0	4281335.0	Residential	5.43	0.023	0.06
9354	669149.0	4281335.0	Residential	5.31	0.022	0.06
9355	669159.0	4281335.0	Residential	5.18	0.022	0.05
9356	669169.0	4281335.0	Residential	5.05	0.021	0.05
9357	669179.0	4281335.0	Residential	4.93	0.020	0.04
9358	669189.0	4281335.0	Residential	4.80	0.020	0.04
9359	669199.0	4281335.0	Residential	4.66	0.019	0.04
9360	669209.0	4281335.0	Residential	4.52	0.019	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9361	669219.0	4281335.0	Residential	4.37	0.018	0.04
9362	669229.0	4281335.0	Residential	4.22	0.018	0.04
9363	669239.0	4281335.0	Residential	4.06	0.017	0.03
9364	669249.0	4281335.0	Residential	3.90	0.016	0.03
9365	669259.0	4281335.0	Residential	3.74	0.015	0.03
9366	669269.0	4281335.0	Residential	3.60	0.015	0.03
9367	669279.0	4281335.0	Residential	3.46	0.014	0.03
9368	669289.0	4281335.0	Residential	3.31	0.014	0.03
9369	669299.0	4281335.0	Residential	3.18	0.013	0.02
9370	669309.0	4281335.0	Residential	3.04	0.013	0.02
9371	669319.0	4281335.0	Residential	2.91	0.012	0.02
9372	669329.0	4281335.0	Residential	2.78	0.011	0.02
9373	669339.0	4281335.0	Residential	2.65	0.011	0.02
9374	669349.0	4281335.0	Roadway/Open Space	-	-	0.02
9375	669359.0	4281335.0	Roadway/Open Space	-	-	0.02
9376	669369.0	4281335.0	Residential	2.31	0.009	0.02
9377	669379.0	4281335.0	Roadway/Open Space	-	-	0.02
9378	669389.0	4281335.0	Roadway/Open Space	-	-	0.02
9379	669399.0	4281335.0	Residential	2.14	0.009	0.02
9380	669409.0	4281335.0	Residential	2.08	0.009	0.02
9381	669419.0	4281335.0	Residential	1.97	0.008	0.02
9382	669429.0	4281335.0	Residential	1.85	0.008	0.02
9383	668599.0	4281345.0	Roadway/Open Space	-	-	0.02
9384	668609.0	4281345.0	Roadway/Open Space	-	-	0.02
9385	668619.0	4281345.0	Roadway/Open Space	-	-	0.02
9386	668629.0	4281345.0	Roadway/Open Space	-	-	0.02
9387	668639.0	4281345.0	Roadway/Open Space	-	-	0.03
9388	668649.0	4281345.0	Roadway/Open Space	-	-	0.03
9389	668659.0	4281345.0	Roadway/Open Space	-	-	0.03
9390	668669.0	4281345.0	Roadway/Open Space	-	-	0.03
9391	668679.0	4281345.0	Roadway/Open Space	-	-	0.03
9392	668689.0	4281345.0	Roadway/Open Space	-	-	0.03
9393	668699.0	4281345.0	Roadway/Open Space	-	-	0.03
9394	668709.0	4281345.0	Roadway/Open Space	-	-	0.04
9395	668719.0	4281345.0	Other Sensitive	2.24	0.009	0.04
9396	668729.0	4281345.0	Other Sensitive	2.29	0.009	0.04
9397	668739.0	4281345.0	Other Sensitive	2.33	0.010	0.04
9398	668749.0	4281345.0	Other Sensitive	2.38	0.010	0.04
9399	668759.0	4281345.0	Other Sensitive	2.43	0.010	0.04
9400	668769.0	4281345.0	Other Sensitive	2.48	0.010	0.04
9401	668779.0	4281345.0	Other Sensitive	2.55	0.011	0.04
9402	668789.0	4281345.0	Other Sensitive	2.65	0.011	0.04
9403	668799.0	4281345.0	Other Sensitive	2.79	0.012	0.05
9404	668809.0	4281345.0	Other Sensitive	2.94	0.012	0.05
9405	668819.0	4281345.0	Other Sensitive	3.10	0.013	0.05
9406	668829.0	4281345.0	Other Sensitive	3.27	0.014	0.05
9407	668839.0	4281345.0	Other Sensitive	3.43	0.014	0.05
9408	668849.0	4281345.0	Other Sensitive	3.58	0.015	0.05
9409	668859.0	4281345.0	Other Sensitive	3.75	0.016	0.05
9410	668869.0	4281345.0	Other Sensitive	3.95	0.016	0.06
9411	668879.0	4281345.0	Other Sensitive	4.12	0.017	0.06
9412	668889.0	4281345.0	Other Sensitive	4.27	0.018	0.07
9413	668899.0	4281345.0	Other Sensitive	4.42	0.018	0.08
9414	668909.0	4281345.0	Other Sensitive	4.58	0.019	0.08
9415	668919.0	4281345.0	Other Sensitive	4.75	0.020	0.08
9416	668929.0	4281345.0	Residential	4.91	0.020	0.08
9417	668939.0	4281345.0	Residential	5.04	0.021	0.09
9418	668949.0	4281345.0	Residential	5.10	0.021	0.09
9419	668959.0	4281345.0	Residential	5.10	0.021	0.09
9420	668969.0	4281345.0	Residential	5.05	0.021	0.08
9421	668979.0	4281345.0	Roadway/Open Space	-	-	0.08
9422	668989.0	4281345.0	Residential	4.91	0.020	0.08
9423	668999.0	4281345.0	Residential	4.86	0.020	0.08
9424	669009.0	4281345.0	Residential	4.82	0.020	0.07
9425	669019.0	4281345.0	Residential	4.77	0.020	0.07
9426	669029.0	4281345.0	Residential	4.74	0.020	0.06
9427	669039.0	4281345.0	Residential	4.72	0.020	0.06
9428	669049.0	4281345.0	Roadway/Open Space	-	-	0.06
9429	669059.0	4281345.0	Residential	4.86	0.020	0.06
9430	669069.0	4281345.0	Residential	5.05	0.021	0.06
9431	669079.0	4281345.0	Residential	5.21	0.022	0.06
9432	669089.0	4281345.0	Residential	5.33	0.022	0.06
9433	669099.0	4281345.0	Residential	5.41	0.023	0.06
9434	669109.0	4281345.0	Residential	5.41	0.023	0.06
9435	669119.0	4281345.0	Residential	5.35	0.022	0.06
9436	669129.0	4281345.0	Residential	5.26	0.022	0.06
9437	669139.0	4281345.0	Residential	5.15	0.021	0.05
9438	669149.0	4281345.0	Residential	5.05	0.021	0.05
9439	669159.0	4281345.0	Residential	4.93	0.021	0.05
9440	669169.0	4281345.0	Residential	4.82	0.020	0.05
9441	669179.0	4281345.0	Residential	4.71	0.020	0.04
9442	669189.0	4281345.0	Residential	4.60	0.019	0.04
9443	669199.0	4281345.0	Residential	4.47	0.019	0.04
9444	669209.0	4281345.0	Residential	4.34	0.018	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9445	669219.0	4281345.0	Residential	4.21	0.017	0.04
9446	669229.0	4281345.0	Residential	4.07	0.017	0.03
9447	669239.0	4281345.0	Residential	3.91	0.016	0.03
9448	669249.0	4281345.0	Residential	3.76	0.016	0.03
9449	669259.0	4281345.0	Residential	3.61	0.015	0.03
9450	669269.0	4281345.0	Residential	3.48	0.014	0.03
9451	669279.0	4281345.0	Residential	3.34	0.014	0.03
9452	669289.0	4281345.0	Residential	3.21	0.013	0.02
9453	669299.0	4281345.0	Residential	3.08	0.013	0.02
9454	669309.0	4281345.0	Residential	2.96	0.012	0.02
9455	669319.0	4281345.0	Residential	2.84	0.012	0.02
9456	669329.0	4281345.0	Roadway/Open Space	-	-	0.02
9457	669339.0	4281345.0	Roadway/Open Space	-	-	0.02
9458	669349.0	4281345.0	Residential	2.47	0.010	0.02
9459	669359.0	4281345.0	Residential	2.36	0.010	0.02
9460	669369.0	4281345.0	Residential	2.26	0.009	0.02
9461	669379.0	4281345.0	Residential	2.19	0.009	0.02
9462	669389.0	4281345.0	Roadway/Open Space	-	-	0.02
9463	669399.0	4281345.0	Residential	2.10	0.009	0.02
9464	669409.0	4281345.0	Residential	2.06	0.008	0.02
9465	669419.0	4281345.0	Residential	1.95	0.008	0.02
9466	668609.0	4281355.0	Roadway/Open Space	-	-	0.02
9467	668619.0	4281355.0	Roadway/Open Space	-	-	0.02
9468	668629.0	4281355.0	Roadway/Open Space	-	-	0.02
9469	668639.0	4281355.0	Roadway/Open Space	-	-	0.02
9470	668649.0	4281355.0	Roadway/Open Space	-	-	0.03
9471	668659.0	4281355.0	Roadway/Open Space	-	-	0.03
9472	668669.0	4281355.0	Roadway/Open Space	-	-	0.03
9473	668679.0	4281355.0	Roadway/Open Space	-	-	0.03
9474	668689.0	4281355.0	Roadway/Open Space	-	-	0.03
9475	668699.0	4281355.0	Roadway/Open Space	-	-	0.03
9476	668709.0	4281355.0	Roadway/Open Space	-	-	0.04
9477	668719.0	4281355.0	Roadway/Open Space	-	-	0.04
9478	668729.0	4281355.0	Other Sensitive	2.24	0.009	0.04
9479	668739.0	4281355.0	Other Sensitive	2.28	0.009	0.04
9480	668749.0	4281355.0	Other Sensitive	2.32	0.010	0.04
9481	668759.0	4281355.0	Other Sensitive	2.37	0.010	0.04
9482	668769.0	4281355.0	Other Sensitive	2.42	0.010	0.04
9483	668779.0	4281355.0	Other Sensitive	2.50	0.010	0.04
9484	668789.0	4281355.0	Other Sensitive	2.60	0.011	0.04
9485	668799.0	4281355.0	Other Sensitive	2.73	0.011	0.04
9486	668809.0	4281355.0	Other Sensitive	2.88	0.012	0.04
9487	668819.0	4281355.0	Other Sensitive	3.04	0.013	0.05
9488	668829.0	4281355.0	Other Sensitive	3.19	0.013	0.05
9489	668839.0	4281355.0	Other Sensitive	3.33	0.014	0.05
9490	668849.0	4281355.0	Other Sensitive	3.49	0.014	0.05
9491	668859.0	4281355.0	Other Sensitive	3.68	0.015	0.05
9492	668869.0	4281355.0	Other Sensitive	3.84	0.016	0.06
9493	668879.0	4281355.0	Other Sensitive	3.96	0.016	0.07
9494	668889.0	4281355.0	Other Sensitive	4.10	0.017	0.07
9495	668899.0	4281355.0	Other Sensitive	4.24	0.018	0.07
9496	668909.0	4281355.0	Other Sensitive	4.39	0.018	0.07
9497	668919.0	4281355.0	Residential	4.54	0.019	0.08
9498	668929.0	4281355.0	Residential	4.69	0.020	0.08
9499	668939.0	4281355.0	Residential	4.80	0.020	0.08
9500	668949.0	4281355.0	Residential	4.83	0.020	0.08
9501	668959.0	4281355.0	Residential	4.81	0.020	0.08
9502	668969.0	4281355.0	Roadway/Open Space	-	-	0.08
9503	668979.0	4281355.0	Roadway/Open Space	-	-	0.08
9504	668989.0	4281355.0	Residential	4.65	0.019	0.07
9505	668999.0	4281355.0	Residential	4.60	0.019	0.07
9506	669009.0	4281355.0	Residential	4.56	0.019	0.07
9507	669019.0	4281355.0	Residential	4.52	0.019	0.07
9508	669029.0	4281355.0	Residential	4.50	0.019	0.06
9509	669039.0	4281355.0	Residential	4.50	0.019	0.06
9510	669049.0	4281355.0	Roadway/Open Space	-	-	0.06
9511	669059.0	4281355.0	Residential	4.60	0.019	0.06
9512	669069.0	4281355.0	Residential	4.74	0.020	0.06
9513	669079.0	4281355.0	Residential	4.89	0.020	0.06
9514	669089.0	4281355.0	Residential	5.01	0.021	0.06
9515	669099.0	4281355.0	Residential	5.09	0.021	0.06
9516	669109.0	4281355.0	Residential	5.09	0.021	0.06
9517	669119.0	4281355.0	Residential	5.05	0.021	0.06
9518	669129.0	4281355.0	Residential	4.98	0.021	0.05
9519	669139.0	4281355.0	Residential	4.88	0.020	0.05
9520	669149.0	4281355.0	Residential	4.78	0.020	0.05
9521	669159.0	4281355.0	Residential	4.68	0.019	0.05
9522	669169.0	4281355.0	Residential	4.59	0.019	0.04
9523	669179.0	4281355.0	Residential	4.50	0.019	0.04
9524	669189.0	4281355.0	Residential	4.39	0.018	0.04
9525	669199.0	4281355.0	Residential	4.29	0.018	0.04
9526	669209.0	4281355.0	Residential	4.17	0.017	0.04
9527	669219.0	4281355.0	Residential	4.05	0.017	0.04
9528	669229.0	4281355.0	Residential	3.91	0.016	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9529	669239.0	4281355.0	Residential	3.77	0.016	0.03
9530	669249.0	4281355.0	Residential	3.63	0.015	0.03
9531	669259.0	4281355.0	Residential	3.49	0.014	0.03
9532	669269.0	4281355.0	Residential	3.36	0.014	0.03
9533	669279.0	4281355.0	Residential	3.22	0.013	0.02
9534	669289.0	4281355.0	Residential	3.10	0.013	0.02
9535	669299.0	4281355.0	Residential	2.98	0.012	0.02
9536	669309.0	4281355.0	Roadway/Open Space	-	-	0.02
9537	669319.0	4281355.0	Roadway/Open Space	-	-	0.02
9538	669329.0	4281355.0	Residential	2.67	0.011	0.02
9539	669339.0	4281355.0	Residential	2.54	0.010	0.02
9540	669349.0	4281355.0	Residential	2.42	0.010	0.02
9541	669359.0	4281355.0	Residential	2.31	0.010	0.02
9542	669369.0	4281355.0	Residential	2.22	0.009	0.02
9543	669379.0	4281355.0	Residential	2.14	0.009	0.02
9544	669389.0	4281355.0	Residential	2.08	0.009	0.02
9545	669399.0	4281355.0	Roadway/Open Space	-	-	0.02
9546	669409.0	4281355.0	Residential	1.99	0.008	0.02
9547	668619.0	4281365.0	Roadway/Open Space	-	-	0.02
9548	668629.0	4281365.0	Roadway/Open Space	-	-	0.02
9549	668639.0	4281365.0	Roadway/Open Space	-	-	0.02
9550	668649.0	4281365.0	Roadway/Open Space	-	-	0.02
9551	668659.0	4281365.0	Roadway/Open Space	-	-	0.02
9552	668669.0	4281365.0	Roadway/Open Space	-	-	0.03
9553	668679.0	4281365.0	Roadway/Open Space	-	-	0.03
9554	668689.0	4281365.0	Roadway/Open Space	-	-	0.03
9555	668699.0	4281365.0	Roadway/Open Space	-	-	0.03
9556	668709.0	4281365.0	Roadway/Open Space	-	-	0.04
9557	668719.0	4281365.0	Roadway/Open Space	-	-	0.04
9558	668729.0	4281365.0	Roadway/Open Space	-	-	0.04
9559	668739.0	4281365.0	Roadway/Open Space	-	-	0.04
9560	668749.0	4281365.0	Roadway/Open Space	-	-	0.04
9561	668759.0	4281365.0	Other Sensitive	2.32	0.010	0.04
9562	668769.0	4281365.0	Other Sensitive	2.38	0.010	0.04
9563	668779.0	4281365.0	Other Sensitive	2.46	0.010	0.04
9564	668789.0	4281365.0	Other Sensitive	2.56	0.011	0.04
9565	668799.0	4281365.0	Other Sensitive	2.69	0.011	0.04
9566	668809.0	4281365.0	Other Sensitive	2.83	0.012	0.04
9567	668819.0	4281365.0	Other Sensitive	2.98	0.012	0.05
9568	668829.0	4281365.0	Other Sensitive	3.11	0.013	0.05
9569	668839.0	4281365.0	Other Sensitive	3.25	0.013	0.05
9570	668849.0	4281365.0	Other Sensitive	3.43	0.014	0.05
9571	668859.0	4281365.0	Other Sensitive	3.59	0.015	0.05
9572	668869.0	4281365.0	Other Sensitive	3.71	0.015	0.06
9573	668879.0	4281365.0	Other Sensitive	3.82	0.016	0.07
9574	668889.0	4281365.0	Other Sensitive	3.94	0.016	0.07
9575	668899.0	4281365.0	Other Sensitive	4.07	0.017	0.07
9576	668909.0	4281365.0	Other Sensitive	4.21	0.017	0.07
9577	668919.0	4281365.0	Residential	4.33	0.018	0.08
9578	668929.0	4281365.0	Residential	4.44	0.019	0.08
9579	668939.0	4281365.0	Residential	4.53	0.019	0.08
9580	668949.0	4281365.0	Residential	4.56	0.019	0.08
9581	668959.0	4281365.0	Roadway/Open Space	-	-	0.08
9582	668969.0	4281365.0	Roadway/Open Space	-	-	0.07
9583	668979.0	4281365.0	Residential	4.45	0.019	0.07
9584	668989.0	4281365.0	Residential	4.40	0.018	0.07
9585	668999.0	4281365.0	Residential	4.35	0.018	0.07
9586	669009.0	4281365.0	Residential	4.30	0.018	0.07
9587	669019.0	4281365.0	Residential	4.28	0.018	0.06
9588	669029.0	4281365.0	Residential	4.27	0.018	0.06
9589	669039.0	4281365.0	Residential	4.27	0.018	0.06
9590	669049.0	4281365.0	Residential	4.29	0.018	0.05
9591	669059.0	4281365.0	Roadway/Open Space	-	-	0.05
9592	669069.0	4281365.0	Residential	4.44	0.018	0.05
9593	669079.0	4281365.0	Residential	4.56	0.019	0.05
9594	669089.0	4281365.0	Residential	4.67	0.019	0.06
9595	669099.0	4281365.0	Residential	4.73	0.020	0.06
9596	669109.0	4281365.0	Residential	4.75	0.020	0.05
9597	669119.0	4281365.0	Residential	4.74	0.020	0.05
9598	669129.0	4281365.0	Residential	4.69	0.020	0.05
9599	669139.0	4281365.0	Residential	4.61	0.019	0.05
9600	669149.0	4281365.0	Residential	4.53	0.019	0.05
9601	669159.0	4281365.0	Residential	4.45	0.018	0.04
9602	669169.0	4281365.0	Residential	4.38	0.018	0.04
9603	669179.0	4281365.0	Residential	4.30	0.018	0.04
9604	669189.0	4281365.0	Residential	4.21	0.017	0.04
9605	669199.0	4281365.0	Residential	4.11	0.017	0.04
9606	669209.0	4281365.0	Residential	4.01	0.017	0.04
9607	669219.0	4281365.0	Residential	3.89	0.016	0.03
9608	669229.0	4281365.0	Residential	3.76	0.016	0.03
9609	669239.0	4281365.0	Residential	3.62	0.015	0.03
9610	669249.0	4281365.0	Residential	3.50	0.014	0.03
9611	669259.0	4281365.0	Residential	3.37	0.014	0.03
9612	669269.0	4281365.0	Residential	3.24	0.013	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9613	669279.0	4281365.0	Roadway/Open Space	-	-	0.02
9614	669289.0	4281365.0	Roadway/Open Space	-	-	0.02
9615	669299.0	4281365.0	Roadway/Open Space	-	-	0.02
9616	669309.0	4281365.0	Residential	2.78	0.011	0.02
9617	669319.0	4281365.0	Residential	2.69	0.011	0.02
9618	669329.0	4281365.0	Residential	2.59	0.011	0.02
9619	669339.0	4281365.0	Residential	2.48	0.010	0.02
9620	669349.0	4281365.0	Residential	2.36	0.010	0.02
9621	669359.0	4281365.0	Residential	2.25	0.009	0.02
9622	669369.0	4281365.0	Residential	2.16	0.009	0.01
9623	669379.0	4281365.0	Residential	2.08	0.009	0.01
9624	669389.0	4281365.0	Residential	2.02	0.008	0.02
9625	668619.0	4281375.0	Roadway/Open Space	-	-	0.02
9626	668629.0	4281375.0	Roadway/Open Space	-	-	0.02
9627	668639.0	4281375.0	Roadway/Open Space	-	-	0.02
9628	668649.0	4281375.0	Roadway/Open Space	-	-	0.02
9629	668659.0	4281375.0	Roadway/Open Space	-	-	0.02
9630	668669.0	4281375.0	Roadway/Open Space	-	-	0.03
9631	668679.0	4281375.0	Roadway/Open Space	-	-	0.03
9632	668689.0	4281375.0	Roadway/Open Space	-	-	0.03
9633	668699.0	4281375.0	Roadway/Open Space	-	-	0.03
9634	668709.0	4281375.0	Roadway/Open Space	-	-	0.04
9635	668719.0	4281375.0	Other Sensitive	2.11	0.009	0.04
9636	668729.0	4281375.0	Other Sensitive	2.15	0.009	0.04
9637	668739.0	4281375.0	Other Sensitive	2.19	0.009	0.04
9638	668749.0	4281375.0	Other Sensitive	2.22	0.009	0.04
9639	668759.0	4281375.0	Roadway/Open Space	-	-	0.04
9640	668769.0	4281375.0	Roadway/Open Space	-	-	0.04
9641	668779.0	4281375.0	Roadway/Open Space	-	-	0.04
9642	668789.0	4281375.0	Other Sensitive	2.52	0.010	0.04
9643	668799.0	4281375.0	Other Sensitive	2.64	0.011	0.04
9644	668809.0	4281375.0	Other Sensitive	2.77	0.011	0.04
9645	668819.0	4281375.0	Other Sensitive	2.90	0.012	0.04
9646	668829.0	4281375.0	Other Sensitive	3.03	0.013	0.05
9647	668839.0	4281375.0	Other Sensitive	3.19	0.013	0.05
9648	668849.0	4281375.0	Other Sensitive	3.34	0.014	0.05
9649	668859.0	4281375.0	Other Sensitive	3.47	0.014	0.05
9650	668869.0	4281375.0	Other Sensitive	3.58	0.015	0.06
9651	668879.0	4281375.0	Other Sensitive	3.67	0.015	0.07
9652	668889.0	4281375.0	Other Sensitive	3.78	0.016	0.07
9653	668899.0	4281375.0	Other Sensitive	3.91	0.016	0.07
9654	668909.0	4281375.0	Residential	4.01	0.017	0.07
9655	668919.0	4281375.0	Residential	4.09	0.017	0.07
9656	668929.0	4281375.0	Residential	4.18	0.017	0.08
9657	668939.0	4281375.0	Residential	4.24	0.018	0.08
9658	668949.0	4281375.0	Residential	4.28	0.018	0.08
9659	668959.0	4281375.0	Roadway/Open Space	-	-	0.07
9660	668969.0	4281375.0	Residential	4.24	0.018	0.07
9661	668979.0	4281375.0	Residential	4.20	0.018	0.07
9662	668989.0	4281375.0	Residential	4.17	0.017	0.07
9663	668999.0	4281375.0	Residential	4.13	0.017	0.07
9664	669009.0	4281375.0	Residential	4.08	0.017	0.06
9665	669019.0	4281375.0	Residential	4.05	0.017	0.06
9666	669029.0	4281375.0	Residential	4.05	0.017	0.06
9667	669039.0	4281375.0	Residential	4.05	0.017	0.05
9668	669049.0	4281375.0	Residential	4.07	0.017	0.05
9669	669059.0	4281375.0	Roadway/Open Space	-	-	0.05
9670	669069.0	4281375.0	Roadway/Open Space	-	-	0.05
9671	669079.0	4281375.0	Residential	4.25	0.018	0.05
9672	669089.0	4281375.0	Residential	4.32	0.018	0.05
9673	669099.0	4281375.0	Residential	4.36	0.018	0.05
9674	669109.0	4281375.0	Residential	4.40	0.018	0.05
9675	669119.0	4281375.0	Roadway/Open Space	-	-	0.05
9676	669129.0	4281375.0	Roadway/Open Space	-	-	0.05
9677	669139.0	4281375.0	Roadway/Open Space	-	-	0.04
9678	669149.0	4281375.0	Roadway/Open Space	-	-	0.04
9679	669159.0	4281375.0	Residential	4.24	0.018	0.04
9680	669169.0	4281375.0	Residential	4.19	0.017	0.04
9681	669179.0	4281375.0	Residential	4.12	0.017	0.04
9682	669189.0	4281375.0	Residential	4.04	0.017	0.04
9683	669199.0	4281375.0	Residential	3.95	0.016	0.04
9684	669209.0	4281375.0	Residential	3.85	0.016	0.03
9685	669219.0	4281375.0	Residential	3.73	0.015	0.03
9686	669229.0	4281375.0	Roadway/Open Space	-	-	0.03
9687	669239.0	4281375.0	Roadway/Open Space	-	-	0.03
9688	669249.0	4281375.0	Roadway/Open Space	-	-	0.03
9689	669259.0	4281375.0	Roadway/Open Space	-	-	0.02
9690	669269.0	4281375.0	Roadway/Open Space	-	-	0.02
9691	669279.0	4281375.0	Residential	3.01	0.012	0.02
9692	669289.0	4281375.0	Residential	2.90	0.012	0.02
9693	669299.0	4281375.0	Residential	2.78	0.012	0.02
9694	669309.0	4281375.0	Residential	2.68	0.011	0.02
9695	669319.0	4281375.0	Residential	2.59	0.011	0.02
9696	669329.0	4281375.0	Residential	2.49	0.010	0.02

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9697	669339.0	4281375.0	Residential	2.39	0.010	0.02
9698	669349.0	4281375.0	Residential	2.29	0.009	0.02
9699	669359.0	4281375.0	Residential	2.19	0.009	0.01
9700	669369.0	4281375.0	Residential	2.10	0.009	0.01
9701	669379.0	4281375.0	Residential	2.03	0.008	0.01
9702	668629.0	4281385.0	Roadway/Open Space	-	-	0.02
9703	668639.0	4281385.0	Roadway/Open Space	-	-	0.02
9704	668649.0	4281385.0	Roadway/Open Space	-	-	0.02
9705	668659.0	4281385.0	Roadway/Open Space	-	-	0.03
9706	668669.0	4281385.0	Roadway/Open Space	-	-	0.03
9707	668679.0	4281385.0	Roadway/Open Space	-	-	0.03
9708	668689.0	4281385.0	Roadway/Open Space	-	-	0.03
9709	668699.0	4281385.0	Roadway/Open Space	-	-	0.03
9710	668709.0	4281385.0	Roadway/Open Space	-	-	0.04
9711	668719.0	4281385.0	Other Sensitive	2.07	0.009	0.04
9712	668729.0	4281385.0	Other Sensitive	2.10	0.009	0.04
9713	668739.0	4281385.0	Other Sensitive	2.13	0.009	0.04
9714	668749.0	4281385.0	Other Sensitive	2.17	0.009	0.04
9715	668759.0	4281385.0	Other Sensitive	2.23	0.009	0.04
9716	668769.0	4281385.0	Other Sensitive	2.30	0.010	0.04
9717	668779.0	4281385.0	Other Sensitive	2.38	0.010	0.04
9718	668789.0	4281385.0	Roadway/Open Space	-	-	0.04
9719	668799.0	4281385.0	Roadway/Open Space	-	-	0.04
9720	668809.0	4281385.0	Roadway/Open Space	-	-	0.04
9721	668819.0	4281385.0	Other Sensitive	2.84	0.012	0.04
9722	668829.0	4281385.0	Other Sensitive	2.98	0.012	0.05
9723	668839.0	4281385.0	Other Sensitive	3.11	0.013	0.05
9724	668849.0	4281385.0	Other Sensitive	3.24	0.013	0.05
9725	668859.0	4281385.0	Other Sensitive	3.35	0.014	0.06
9726	668869.0	4281385.0	Other Sensitive	3.44	0.014	0.06
9727	668879.0	4281385.0	Other Sensitive	3.53	0.015	0.06
9728	668889.0	4281385.0	Other Sensitive	3.63	0.015	0.07
9729	668899.0	4281385.0	Other Sensitive	3.72	0.015	0.07
9730	668909.0	4281385.0	Residential	3.80	0.016	0.07
9731	668919.0	4281385.0	Residential	3.86	0.016	0.07
9732	668929.0	4281385.0	Residential	3.93	0.016	0.07
9733	668939.0	4281385.0	Residential	3.96	0.016	0.07
9734	668949.0	4281385.0	Roadway/Open Space	-	-	0.07
9735	668959.0	4281385.0	Roadway/Open Space	-	-	0.07
9736	668969.0	4281385.0	Residential	3.97	0.017	0.07
9737	668979.0	4281385.0	Residential	3.94	0.016	0.07
9738	668989.0	4281385.0	Residential	3.94	0.016	0.07
9739	668999.0	4281385.0	Residential	3.92	0.016	0.06
9740	669009.0	4281385.0	Residential	3.88	0.016	0.06
9741	669019.0	4281385.0	Residential	3.84	0.016	0.06
9742	669029.0	4281385.0	Residential	3.83	0.016	0.06
9743	669039.0	4281385.0	Residential	3.83	0.016	0.05
9744	669049.0	4281385.0	Residential	3.85	0.016	0.05
9745	669059.0	4281385.0	Residential	3.89	0.016	0.05
9746	669069.0	4281385.0	Roadway/Open Space	-	-	0.05
9747	669079.0	4281385.0	Roadway/Open Space	-	-	0.05
9748	669089.0	4281385.0	Roadway/Open Space	-	-	0.05
9749	669099.0	4281385.0	Roadway/Open Space	-	-	0.05
9750	669109.0	4281385.0	Roadway/Open Space	-	-	0.04
9751	669119.0	4281385.0	Roadway/Open Space	-	-	0.04
9752	669129.0	4281385.0	Residential	4.07	0.017	0.04
9753	669139.0	4281385.0	Residential	4.07	0.017	0.04
9754	669149.0	4281385.0	Roadway/Open Space	-	-	0.04
9755	669159.0	4281385.0	Roadway/Open Space	-	-	0.04
9756	669169.0	4281385.0	Roadway/Open Space	-	-	0.04
9757	669179.0	4281385.0	Roadway/Open Space	-	-	0.04
9758	669189.0	4281385.0	Roadway/Open Space	-	-	0.04
9759	669199.0	4281385.0	Roadway/Open Space	-	-	0.03
9760	669209.0	4281385.0	Roadway/Open Space	-	-	0.03
9761	669219.0	4281385.0	Roadway/Open Space	-	-	0.03
9762	669229.0	4281385.0	Residential	3.45	0.014	0.03
9763	669239.0	4281385.0	Residential	3.34	0.014	0.03
9764	669249.0	4281385.0	Residential	3.23	0.013	0.03
9765	669259.0	4281385.0	Residential	3.12	0.013	0.02
9766	669269.0	4281385.0	Residential	3.02	0.012	0.02
9767	669279.0	4281385.0	Residential	2.91	0.012	0.02
9768	669289.0	4281385.0	Residential	2.80	0.012	0.02
9769	669299.0	4281385.0	Residential	2.68	0.011	0.02
9770	669309.0	4281385.0	Residential	2.58	0.011	0.02
9771	669319.0	4281385.0	Residential	2.48	0.010	0.02
9772	669329.0	4281385.0	Residential	2.39	0.010	0.02
9773	669339.0	4281385.0	Residential	2.30	0.009	0.02
9774	669349.0	4281385.0	Residential	2.21	0.009	0.01
9775	669359.0	4281385.0	Residential	2.13	0.009	0.01
9776	669369.0	4281385.0	Residential	2.05	0.008	0.01
9777	668639.0	4281395.0	Roadway/Open Space	-	-	0.02
9778	668649.0	4281395.0	Roadway/Open Space	-	-	0.02
9779	668659.0	4281395.0	Roadway/Open Space	-	-	0.03
9780	668669.0	4281395.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9781	668679.0	4281395.0	Roadway/Open Space	-	-	0.03
9782	668689.0	4281395.0	Roadway/Open Space	-	-	0.03
9783	668699.0	4281395.0	Roadway/Open Space	-	-	0.03
9784	668709.0	4281395.0	Roadway/Open Space	-	-	0.03
9785	668719.0	4281395.0	Other Sensitive	2.02	0.008	0.04
9786	668729.0	4281395.0	Other Sensitive	2.05	0.008	0.04
9787	668739.0	4281395.0	Other Sensitive	2.08	0.009	0.04
9788	668749.0	4281395.0	Other Sensitive	2.13	0.009	0.04
9789	668759.0	4281395.0	Other Sensitive	2.20	0.009	0.04
9790	668769.0	4281395.0	Other Sensitive	2.26	0.009	0.04
9791	668779.0	4281395.0	Other Sensitive	2.34	0.010	0.04
9792	668789.0	4281395.0	Other Sensitive	2.44	0.010	0.04
9793	668799.0	4281395.0	Other Sensitive	2.55	0.011	0.04
9794	668809.0	4281395.0	Other Sensitive	2.67	0.011	0.04
9795	668819.0	4281395.0	Roadway/Open Space	-	-	0.04
9796	668829.0	4281395.0	Roadway/Open Space	-	-	0.04
9797	668839.0	4281395.0	Roadway/Open Space	-	-	0.05
9798	668849.0	4281395.0	Other Sensitive	3.12	0.013	0.05
9799	668859.0	4281395.0	Other Sensitive	3.22	0.013	0.06
9800	668869.0	4281395.0	Other Sensitive	3.30	0.014	0.06
9801	668879.0	4281395.0	Other Sensitive	3.39	0.014	0.06
9802	668889.0	4281395.0	Other Sensitive	3.47	0.014	0.06
9803	668899.0	4281395.0	Other Sensitive	3.53	0.015	0.07
9804	668909.0	4281395.0	Residential	3.61	0.015	0.07
9805	668919.0	4281395.0	Residential	3.63	0.015	0.07
9806	668929.0	4281395.0	Residential	3.67	0.015	0.07
9807	668939.0	4281395.0	Residential	3.73	0.016	0.07
9808	668949.0	4281395.0	Roadway/Open Space	-	-	0.07
9809	668959.0	4281395.0	Residential	3.74	0.016	0.06
9810	668969.0	4281395.0	Residential	3.74	0.016	0.06
9811	668979.0	4281395.0	Residential	3.77	0.016	0.06
9812	668989.0	4281395.0	Residential	3.77	0.016	0.06
9813	668999.0	4281395.0	Residential	3.73	0.016	0.06
9814	669009.0	4281395.0	Residential	3.71	0.015	0.06
9815	669019.0	4281395.0	Residential	3.68	0.015	0.06
9816	669029.0	4281395.0	Residential	3.66	0.015	0.05
9817	669039.0	4281395.0	Residential	3.66	0.015	0.05
9818	669049.0	4281395.0	Residential	3.66	0.015	0.05
9819	669059.0	4281395.0	Residential	3.67	0.015	0.05
9820	669069.0	4281395.0	Roadway/Open Space	-	-	0.04
9821	669079.0	4281395.0	Roadway/Open Space	-	-	0.04
9822	669089.0	4281395.0	Residential	3.67	0.015	0.04
9823	669099.0	4281395.0	Residential	3.71	0.015	0.04
9824	669109.0	4281395.0	Residential	3.75	0.016	0.04
9825	669119.0	4281395.0	Residential	3.78	0.016	0.04
9826	669129.0	4281395.0	Residential	3.81	0.016	0.04
9827	669139.0	4281395.0	Residential	3.84	0.016	0.04
9828	669149.0	4281395.0	Residential	3.86	0.016	0.04
9829	669159.0	4281395.0	Residential	3.85	0.016	0.04
9830	669169.0	4281395.0	Residential	3.82	0.016	0.04
9831	669179.0	4281395.0	Residential	3.78	0.016	0.04
9832	669189.0	4281395.0	Residential	3.71	0.015	0.04
9833	669199.0	4281395.0	Residential	3.63	0.015	0.03
9834	669209.0	4281395.0	Residential	3.52	0.015	0.03
9835	669219.0	4281395.0	Residential	3.42	0.014	0.03
9836	669229.0	4281395.0	Residential	3.31	0.014	0.03
9837	669239.0	4281395.0	Residential	3.20	0.013	0.03
9838	669249.0	4281395.0	Residential	3.10	0.013	0.03
9839	669259.0	4281395.0	Residential	3.01	0.012	0.02
9840	669269.0	4281395.0	Residential	2.91	0.012	0.02
9841	669279.0	4281395.0	Residential	2.81	0.012	0.02
9842	669289.0	4281395.0	Residential	2.69	0.011	0.02
9843	669299.0	4281395.0	Residential	2.58	0.011	0.02
9844	669309.0	4281395.0	Residential	2.47	0.010	0.02
9845	669319.0	4281395.0	Residential	2.38	0.010	0.02
9846	669329.0	4281395.0	Residential	2.30	0.009	0.02
9847	669339.0	4281395.0	Residential	2.23	0.009	0.01
9848	669349.0	4281395.0	Residential	2.15	0.009	0.01
9849	669359.0	4281395.0	Residential	2.07	0.009	0.01
9850	668649.0	4281405.0	Roadway/Open Space	-	-	0.03
9851	668659.0	4281405.0	Roadway/Open Space	-	-	0.03
9852	668669.0	4281405.0	Roadway/Open Space	-	-	0.03
9853	668679.0	4281405.0	Roadway/Open Space	-	-	0.03
9854	668689.0	4281405.0	Roadway/Open Space	-	-	0.03
9855	668699.0	4281405.0	Roadway/Open Space	-	-	0.03
9856	668709.0	4281405.0	Other Sensitive	1.95	0.008	0.03
9857	668719.0	4281405.0	Other Sensitive	1.98	0.008	0.03
9858	668729.0	4281405.0	Other Sensitive	2.00	0.008	0.04
9859	668739.0	4281405.0	Other Sensitive	2.04	0.008	0.04
9860	668749.0	4281405.0	Other Sensitive	2.10	0.009	0.04
9861	668759.0	4281405.0	Other Sensitive	2.16	0.009	0.04
9862	668769.0	4281405.0	Other Sensitive	2.23	0.009	0.04
9863	668779.0	4281405.0	Other Sensitive	2.31	0.010	0.04
9864	668789.0	4281405.0	Other Sensitive	2.40	0.010	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9865	668799.0	4281405.0	Other Sensitive	2.51	0.010	0.04
9866	668809.0	4281405.0	Other Sensitive	2.62	0.011	0.04
9867	668819.0	4281405.0	Other Sensitive	2.73	0.011	0.04
9868	668829.0	4281405.0	Other Sensitive	2.81	0.012	0.04
9869	668839.0	4281405.0	Other Sensitive	2.90	0.012	0.05
9870	668849.0	4281405.0	Roadway/Open Space	-	-	0.05
9871	668859.0	4281405.0	Roadway/Open Space	-	-	0.06
9872	668869.0	4281405.0	Roadway/Open Space	-	-	0.06
9873	668879.0	4281405.0	Other Sensitive	3.25	0.013	0.06
9874	668889.0	4281405.0	Other Sensitive	3.30	0.014	0.06
9875	668899.0	4281405.0	Residential	3.37	0.014	0.06
9876	668909.0	4281405.0	Residential	3.44	0.014	0.07
9877	668919.0	4281405.0	Residential	3.43	0.014	0.07
9878	668929.0	4281405.0	Residential	3.46	0.014	0.07
9879	668939.0	4281405.0	Roadway/Open Space	-	-	0.07
9880	668949.0	4281405.0	Roadway/Open Space	-	-	0.06
9881	668959.0	4281405.0	Residential	3.52	0.015	0.06
9882	668969.0	4281405.0	Residential	3.54	0.015	0.06
9883	668979.0	4281405.0	Residential	3.57	0.015	0.06
9884	668989.0	4281405.0	Residential	3.60	0.015	0.06
9885	668999.0	4281405.0	Residential	3.58	0.015	0.06
9886	669009.0	4281405.0	Residential	3.56	0.015	0.06
9887	669019.0	4281405.0	Residential	3.53	0.015	0.06
9888	669029.0	4281405.0	Residential	3.51	0.015	0.05
9889	669039.0	4281405.0	Residential	3.49	0.015	0.05
9890	669049.0	4281405.0	Residential	3.49	0.014	0.05
9891	669059.0	4281405.0	Roadway/Open Space	-	-	0.05
9892	669069.0	4281405.0	Roadway/Open Space	-	-	0.04
9893	669079.0	4281405.0	Residential	3.41	0.014	0.04
9894	669089.0	4281405.0	Residential	3.42	0.014	0.04
9895	669099.0	4281405.0	Residential	3.46	0.014	0.04
9896	669109.0	4281405.0	Residential	3.50	0.015	0.04
9897	669119.0	4281405.0	Residential	3.54	0.015	0.04
9898	669129.0	4281405.0	Residential	3.59	0.015	0.04
9899	669139.0	4281405.0	Residential	3.64	0.015	0.04
9900	669149.0	4281405.0	Residential	3.67	0.015	0.04
9901	669159.0	4281405.0	Residential	3.68	0.015	0.04
9902	669169.0	4281405.0	Residential	3.66	0.015	0.04
9903	669179.0	4281405.0	Residential	3.62	0.015	0.04
9904	669189.0	4281405.0	Residential	3.56	0.015	0.03
9905	669199.0	4281405.0	Residential	3.47	0.014	0.03
9906	669209.0	4281405.0	Residential	3.37	0.014	0.03
9907	669219.0	4281405.0	Residential	3.26	0.014	0.03
9908	669229.0	4281405.0	Residential	3.16	0.013	0.03
9909	669239.0	4281405.0	Residential	3.07	0.013	0.03
9910	669249.0	4281405.0	Residential	2.98	0.012	0.03
9911	669259.0	4281405.0	Residential	2.90	0.012	0.02
9912	669269.0	4281405.0	Residential	2.81	0.012	0.02
9913	669279.0	4281405.0	Residential	2.69	0.011	0.02
9914	669289.0	4281405.0	Residential	2.58	0.011	0.02
9915	669299.0	4281405.0	Residential	2.47	0.010	0.02
9916	669309.0	4281405.0	Residential	2.37	0.010	0.02
9917	669319.0	4281405.0	Residential	2.28	0.009	0.01
9918	669329.0	4281405.0	Residential	2.21	0.009	0.01
9919	669339.0	4281405.0	Residential	2.15	0.009	0.01
9920	668659.0	4281415.0	Roadway/Open Space	-	-	0.03
9921	668669.0	4281415.0	Roadway/Open Space	-	-	0.03
9922	668679.0	4281415.0	Roadway/Open Space	-	-	0.03
9923	668689.0	4281415.0	Roadway/Open Space	-	-	0.03
9924	668699.0	4281415.0	Roadway/Open Space	-	-	0.03
9925	668709.0	4281415.0	Other Sensitive	1.92	0.008	0.03
9926	668719.0	4281415.0	Other Sensitive	1.94	0.008	0.03
9927	668729.0	4281415.0	Other Sensitive	1.96	0.008	0.04
9928	668739.0	4281415.0	Other Sensitive	2.01	0.008	0.03
9929	668749.0	4281415.0	Other Sensitive	2.07	0.009	0.04
9930	668759.0	4281415.0	Other Sensitive	2.13	0.009	0.04
9931	668769.0	4281415.0	Other Sensitive	2.20	0.009	0.04
9932	668779.0	4281415.0	Other Sensitive	2.27	0.009	0.04
9933	668789.0	4281415.0	Other Sensitive	2.36	0.010	0.04
9934	668799.0	4281415.0	Other Sensitive	2.46	0.010	0.04
9935	668809.0	4281415.0	Other Sensitive	2.57	0.011	0.04
9936	668819.0	4281415.0	Other Sensitive	2.66	0.011	0.04
9937	668829.0	4281415.0	Other Sensitive	2.73	0.011	0.04
9938	668839.0	4281415.0	Other Sensitive	2.80	0.012	0.05
9939	668849.0	4281415.0	Other Sensitive	2.89	0.012	0.05
9940	668859.0	4281415.0	Other Sensitive	2.97	0.012	0.06
9941	668869.0	4281415.0	Other Sensitive	3.04	0.013	0.06
9942	668879.0	4281415.0	Roadway/Open Space	-	-	0.06
9943	668889.0	4281415.0	Roadway/Open Space	-	-	0.06
9944	668899.0	4281415.0	Residential	3.23	0.013	0.06
9945	668909.0	4281415.0	Residential	3.26	0.014	0.06
9946	668919.0	4281415.0	Residential	3.25	0.014	0.06
9947	668929.0	4281415.0	Residential	3.30	0.014	0.06
9948	668939.0	4281415.0	Roadway/Open Space	-	-	0.06

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9949	668949.0	4281415.0	Residential	3.36	0.014	0.06
9950	668959.0	4281415.0	Residential	3.36	0.014	0.06
9951	668969.0	4281415.0	Residential	3.37	0.014	0.06
9952	668979.0	4281415.0	Residential	3.38	0.014	0.06
9953	668989.0	4281415.0	Residential	3.41	0.014	0.06
9954	668999.0	4281415.0	Residential	3.42	0.014	0.06
9955	669009.0	4281415.0	Residential	3.41	0.014	0.06
9956	669019.0	4281415.0	Residential	3.38	0.014	0.05
9957	669029.0	4281415.0	Residential	3.35	0.014	0.05
9958	669039.0	4281415.0	Residential	3.32	0.014	0.05
9959	669049.0	4281415.0	Roadway/Open Space	-	-	0.04
9960	669059.0	4281415.0	Residential	3.28	0.014	0.04
9961	669069.0	4281415.0	Residential	3.24	0.013	0.04
9962	669079.0	4281415.0	Residential	3.23	0.013	0.04
9963	669089.0	4281415.0	Residential	3.23	0.013	0.04
9964	669099.0	4281415.0	Residential	3.24	0.013	0.04
9965	669109.0	4281415.0	Residential	3.27	0.014	0.03
9966	669119.0	4281415.0	Residential	3.33	0.014	0.03
9967	669129.0	4281415.0	Residential	3.39	0.014	0.04
9968	669139.0	4281415.0	Residential	3.45	0.014	0.04
9969	669149.0	4281415.0	Residential	3.49	0.015	0.04
9970	669159.0	4281415.0	Residential	3.51	0.015	0.04
9971	669169.0	4281415.0	Residential	3.50	0.015	0.03
9972	669179.0	4281415.0	Residential	3.48	0.014	0.03
9973	669189.0	4281415.0	Residential	3.41	0.014	0.03
9974	669199.0	4281415.0	Residential	3.31	0.014	0.03
9975	669209.0	4281415.0	Residential	3.21	0.013	0.03
9976	669219.0	4281415.0	Residential	3.11	0.013	0.03
9977	669229.0	4281415.0	Residential	3.02	0.013	0.03
9978	669239.0	4281415.0	Residential	2.94	0.012	0.02
9979	669249.0	4281415.0	Residential	2.86	0.012	0.02
9980	669259.0	4281415.0	Residential	2.78	0.012	0.02
9981	669269.0	4281415.0	Residential	2.68	0.011	0.02
9982	669279.0	4281415.0	Residential	2.57	0.011	0.02
9983	669289.0	4281415.0	Residential	2.47	0.010	0.02
9984	669299.0	4281415.0	Residential	2.37	0.010	0.02
9985	669309.0	4281415.0	Residential	2.28	0.009	0.02
9986	669319.0	4281415.0	Residential	2.20	0.009	0.01
9987	668669.0	4281425.0	Roadway/Open Space	-	-	0.03
9988	668679.0	4281425.0	Roadway/Open Space	-	-	0.03
9989	668689.0	4281425.0	Roadway/Open Space	-	-	0.03
9990	668699.0	4281425.0	Roadway/Open Space	-	-	0.03
9991	668709.0	4281425.0	Other Sensitive	1.89	0.008	0.03
9992	668719.0	4281425.0	Other Sensitive	1.91	0.008	0.03
9993	668729.0	4281425.0	Other Sensitive	1.94	0.008	0.03
9994	668739.0	4281425.0	Other Sensitive	1.98	0.008	0.03
9995	668749.0	4281425.0	Other Sensitive	2.04	0.008	0.03
9996	668759.0	4281425.0	Other Sensitive	2.10	0.009	0.04
9997	668769.0	4281425.0	Other Sensitive	2.17	0.009	0.04
9998	668779.0	4281425.0	Other Sensitive	2.23	0.009	0.04
9999	668789.0	4281425.0	Other Sensitive	2.32	0.010	0.04
10000	668799.0	4281425.0	Other Sensitive	2.42	0.010	0.04
10001	668809.0	4281425.0	Other Sensitive	2.51	0.010	0.04
10002	668819.0	4281425.0	Other Sensitive	2.58	0.011	0.04
10003	668829.0	4281425.0	Other Sensitive	2.64	0.011	0.04
10004	668839.0	4281425.0	Other Sensitive	2.71	0.011	0.05
10005	668849.0	4281425.0	Other Sensitive	2.78	0.012	0.05
10006	668859.0	4281425.0	Other Sensitive	2.85	0.012	0.05
10007	668869.0	4281425.0	Other Sensitive	2.91	0.012	0.05
10008	668879.0	4281425.0	Other Sensitive	2.97	0.012	0.06
10009	668889.0	4281425.0	Roadway/Open Space	-	-	0.06
10010	668899.0	4281425.0	Residential	3.10	0.013	0.06
10011	668909.0	4281425.0	Residential	3.09	0.013	0.06
10012	668919.0	4281425.0	Residential	3.10	0.013	0.06
10013	668929.0	4281425.0	Residential	3.16	0.013	0.06
10014	668939.0	4281425.0	Roadway/Open Space	-	-	0.06
10015	668949.0	4281425.0	Residential	3.22	0.013	0.06
10016	668959.0	4281425.0	Residential	3.22	0.013	0.06
10017	668969.0	4281425.0	Residential	3.22	0.013	0.06
10018	668979.0	4281425.0	Residential	3.24	0.013	0.06
10019	668989.0	4281425.0	Residential	3.25	0.014	0.06
10020	668999.0	4281425.0	Residential	3.25	0.014	0.06
10021	669009.0	4281425.0	Residential	3.25	0.014	0.05
10022	669019.0	4281425.0	Residential	3.22	0.013	0.05
10023	669029.0	4281425.0	Residential	3.19	0.013	0.05
10024	669039.0	4281425.0	Roadway/Open Space	-	-	0.04
10025	669049.0	4281425.0	Residential	3.12	0.013	0.04
10026	669059.0	4281425.0	Residential	3.10	0.013	0.04
10027	669069.0	4281425.0	Residential	3.07	0.013	0.04
10028	669079.0	4281425.0	Residential	3.06	0.013	0.04
10029	669089.0	4281425.0	Residential	3.05	0.013	0.03
10030	669099.0	4281425.0	Residential	3.06	0.013	0.03
10031	669109.0	4281425.0	Residential	3.08	0.013	0.03
10032	669119.0	4281425.0	Residential	3.13	0.013	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10033	669129.0	4281425.0	Residential	3.20	0.013	0.03
10034	669139.0	4281425.0	Residential	3.28	0.014	0.03
10035	669149.0	4281425.0	Residential	3.32	0.014	0.03
10036	669159.0	4281425.0	Residential	3.34	0.014	0.03
10037	669169.0	4281425.0	Residential	3.35	0.014	0.03
10038	669179.0	4281425.0	Residential	3.32	0.014	0.03
10039	669189.0	4281425.0	Residential	3.25	0.013	0.03
10040	669199.0	4281425.0	Residential	3.15	0.013	0.03
10041	669209.0	4281425.0	Residential	3.06	0.013	0.03
10042	669219.0	4281425.0	Residential	2.97	0.012	0.03
10043	669229.0	4281425.0	Residential	2.89	0.012	0.02
10044	669239.0	4281425.0	Residential	2.82	0.012	0.02
10045	669249.0	4281425.0	Roadway/Open Space	-	-	0.02
10046	669259.0	4281425.0	Roadway/Open Space	-	-	0.02
10047	669269.0	4281425.0	Roadway/Open Space	-	-	0.02
10048	669279.0	4281425.0	Roadway/Open Space	-	-	0.02
10049	669289.0	4281425.0	Roadway/Open Space	-	-	0.02
10050	669299.0	4281425.0	Roadway/Open Space	-	-	0.02
10051	669309.0	4281425.0	Roadway/Open Space	-	-	0.02
10052	668679.0	4281435.0	Roadway/Open Space	-	-	0.03
10053	668689.0	4281435.0	Roadway/Open Space	-	-	0.03
10054	668699.0	4281435.0	Other Sensitive	1.85	0.008	0.03
10055	668709.0	4281435.0	Other Sensitive	1.87	0.008	0.03
10056	668719.0	4281435.0	Other Sensitive	1.89	0.008	0.03
10057	668729.0	4281435.0	Other Sensitive	1.92	0.008	0.03
10058	668739.0	4281435.0	Other Sensitive	1.96	0.008	0.03
10059	668749.0	4281435.0	Other Sensitive	2.02	0.008	0.03
10060	668759.0	4281435.0	Other Sensitive	2.08	0.009	0.04
10061	668769.0	4281435.0	Other Sensitive	2.14	0.009	0.04
10062	668779.0	4281435.0	Other Sensitive	2.21	0.009	0.04
10063	668789.0	4281435.0	Other Sensitive	2.30	0.010	0.04
10064	668799.0	4281435.0	Other Sensitive	2.39	0.010	0.04
10065	668809.0	4281435.0	Other Sensitive	2.46	0.010	0.04
10066	668819.0	4281435.0	Other Sensitive	2.51	0.010	0.04
10067	668829.0	4281435.0	Other Sensitive	2.56	0.011	0.05
10068	668839.0	4281435.0	Other Sensitive	2.61	0.011	0.05
10069	668849.0	4281435.0	Other Sensitive	2.67	0.011	0.05
10070	668859.0	4281435.0	Other Sensitive	2.73	0.011	0.05
10071	668869.0	4281435.0	Other Sensitive	2.80	0.012	0.05
10072	668879.0	4281435.0	Other Sensitive	2.87	0.012	0.05
10073	668889.0	4281435.0	Residential	2.93	0.012	0.06
10074	668899.0	4281435.0	Residential	2.96	0.012	0.06
10075	668909.0	4281435.0	Residential	2.96	0.012	0.06
10076	668919.0	4281435.0	Residential	2.98	0.012	0.06
10077	668929.0	4281435.0	Roadway/Open Space	-	-	0.06
10078	668939.0	4281435.0	Roadway/Open Space	-	-	0.06
10079	668949.0	4281435.0	Residential	3.09	0.013	0.06
10080	668959.0	4281435.0	Residential	3.10	0.013	0.06
10081	668969.0	4281435.0	Residential	3.10	0.013	0.06
10082	668979.0	4281435.0	Residential	3.10	0.013	0.06
10083	668989.0	4281435.0	Residential	3.10	0.013	0.06
10084	668999.0	4281435.0	Residential	3.11	0.013	0.05
10085	669009.0	4281435.0	Residential	3.09	0.013	0.05
10086	669019.0	4281435.0	Residential	3.06	0.013	0.05
10087	669029.0	4281435.0	Residential	3.03	0.013	0.05
10088	669039.0	4281435.0	Roadway/Open Space	-	-	0.04
10089	669049.0	4281435.0	Residential	2.98	0.012	0.04
10090	669059.0	4281435.0	Residential	2.94	0.012	0.04
10091	669069.0	4281435.0	Residential	2.93	0.012	0.04
10092	669079.0	4281435.0	Residential	2.91	0.012	0.03
10093	669089.0	4281435.0	Residential	2.90	0.012	0.03
10094	669099.0	4281435.0	Residential	2.90	0.012	0.03
10095	669109.0	4281435.0	Residential	2.90	0.012	0.03
10096	669119.0	4281435.0	Residential	2.94	0.012	0.03
10097	669129.0	4281435.0	Residential	3.01	0.012	0.03
10098	669139.0	4281435.0	Residential	3.08	0.013	0.03
10099	669149.0	4281435.0	Residential	3.14	0.013	0.03
10100	669159.0	4281435.0	Residential	3.16	0.013	0.03
10101	669169.0	4281435.0	Residential	3.16	0.013	0.03
10102	669179.0	4281435.0	Residential	3.13	0.013	0.03
10103	669189.0	4281435.0	Residential	3.06	0.013	0.03
10104	669199.0	4281435.0	Residential	2.98	0.012	0.03
10105	669209.0	4281435.0	Residential	2.90	0.012	0.03
10106	669219.0	4281435.0	Residential	2.83	0.012	0.02
10107	669229.0	4281435.0	Residential	2.76	0.011	0.02
10108	669239.0	4281435.0	Residential	2.69	0.011	0.02
10109	669249.0	4281435.0	Roadway/Open Space	-	-	0.02
10110	669259.0	4281435.0	Roadway/Open Space	-	-	0.02
10111	669269.0	4281435.0	Roadway/Open Space	-	-	0.02
10112	669279.0	4281435.0	Roadway/Open Space	-	-	0.02
10113	668689.0	4281445.0	Roadway/Open Space	-	-	0.03
10114	668699.0	4281445.0	Other Sensitive	1.83	0.008	0.03
10115	668709.0	4281445.0	Other Sensitive	1.85	0.008	0.03
10116	668719.0	4281445.0	Other Sensitive	1.87	0.008	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10117	668729.0	4281445.0	Other Sensitive	1.91	0.008	0.03
10118	668739.0	4281445.0	Other Sensitive	1.95	0.008	0.03
10119	668749.0	4281445.0	Other Sensitive	2.01	0.008	0.03
10120	668759.0	4281445.0	Other Sensitive	2.07	0.009	0.03
10121	668769.0	4281445.0	Other Sensitive	2.14	0.009	0.03
10122	668779.0	4281445.0	Other Sensitive	2.20	0.009	0.04
10123	668789.0	4281445.0	Other Sensitive	2.28	0.009	0.04
10124	668799.0	4281445.0	Other Sensitive	2.35	0.010	0.04
10125	668809.0	4281445.0	Other Sensitive	2.39	0.010	0.04
10126	668819.0	4281445.0	Other Sensitive	2.43	0.010	0.04
10127	668829.0	4281445.0	Other Sensitive	2.47	0.010	0.05
10128	668839.0	4281445.0	Other Sensitive	2.52	0.010	0.05
10129	668849.0	4281445.0	Other Sensitive	2.57	0.011	0.05
10130	668859.0	4281445.0	Other Sensitive	2.64	0.011	0.05
10131	668869.0	4281445.0	Other Sensitive	2.71	0.011	0.05
10132	668879.0	4281445.0	Other Sensitive	2.77	0.012	0.05
10133	668889.0	4281445.0	Residential	2.82	0.012	0.06
10134	668899.0	4281445.0	Residential	2.83	0.012	0.06
10135	668909.0	4281445.0	Residential	2.84	0.012	0.06
10136	668919.0	4281445.0	Residential	2.86	0.012	0.06
10137	668929.0	4281445.0	Roadway/Open Space	-	-	0.05
10138	668939.0	4281445.0	Residential	2.92	0.012	0.05
10139	668949.0	4281445.0	Residential	2.94	0.012	0.05
10140	668959.0	4281445.0	Residential	2.95	0.012	0.05
10141	668969.0	4281445.0	Residential	2.96	0.012	0.05
10142	668979.0	4281445.0	Residential	2.98	0.012	0.05
10143	668989.0	4281445.0	Residential	2.98	0.012	0.05
10144	668999.0	4281445.0	Residential	2.97	0.012	0.05
10145	669009.0	4281445.0	Residential	2.95	0.012	0.05
10146	669019.0	4281445.0	Residential	2.93	0.012	0.05
10147	669029.0	4281445.0	Roadway/Open Space	-	-	0.04
10148	669039.0	4281445.0	Residential	2.87	0.012	0.04
10149	669049.0	4281445.0	Residential	2.83	0.012	0.04
10150	669059.0	4281445.0	Residential	2.80	0.012	0.04
10151	669069.0	4281445.0	Residential	2.79	0.012	0.03
10152	669079.0	4281445.0	Residential	2.78	0.012	0.03
10153	669089.0	4281445.0	Residential	2.77	0.011	0.03
10154	669099.0	4281445.0	Residential	2.75	0.011	0.03
10155	669109.0	4281445.0	Residential	2.75	0.011	0.03
10156	669119.0	4281445.0	Residential	2.77	0.012	0.03
10157	669129.0	4281445.0	Residential	2.82	0.012	0.03
10158	669139.0	4281445.0	Residential	2.87	0.012	0.03
10159	669149.0	4281445.0	Residential	2.91	0.012	0.03
10160	669159.0	4281445.0	Residential	2.94	0.012	0.03
10161	669169.0	4281445.0	Residential	2.93	0.012	0.03
10162	669179.0	4281445.0	Residential	2.90	0.012	0.03
10163	669189.0	4281445.0	Residential	2.87	0.012	0.03
10164	669199.0	4281445.0	Residential	2.82	0.012	0.03
10165	669209.0	4281445.0	Residential	2.77	0.011	0.03
10166	669219.0	4281445.0	Residential	2.71	0.011	0.02
10167	669229.0	4281445.0	Residential	2.65	0.011	0.02
10168	669239.0	4281445.0	Roadway/Open Space	-	-	0.02
10169	669249.0	4281445.0	Roadway/Open Space	-	-	0.02
10170	669259.0	4281445.0	Roadway/Open Space	-	-	0.02
10171	668699.0	4281455.0	Other Sensitive	1.81	0.007	0.03
10172	668709.0	4281455.0	Other Sensitive	1.84	0.008	0.03
10173	668719.0	4281455.0	Other Sensitive	1.86	0.008	0.03
10174	668729.0	4281455.0	Other Sensitive	1.91	0.008	0.03
10175	668739.0	4281455.0	Other Sensitive	1.96	0.008	0.03
10176	668749.0	4281455.0	Other Sensitive	2.02	0.008	0.03
10177	668759.0	4281455.0	Other Sensitive	2.10	0.009	0.03
10178	668769.0	4281455.0	Other Sensitive	2.15	0.009	0.03
10179	668779.0	4281455.0	Other Sensitive	2.20	0.009	0.04
10180	668789.0	4281455.0	Other Sensitive	2.25	0.009	0.04
10181	668799.0	4281455.0	Other Sensitive	2.29	0.009	0.04
10182	668809.0	4281455.0	Other Sensitive	2.32	0.010	0.04
10183	668819.0	4281455.0	Other Sensitive	2.36	0.010	0.04
10184	668829.0	4281455.0	Other Sensitive	2.39	0.010	0.05
10185	668839.0	4281455.0	Other Sensitive	2.43	0.010	0.05
10186	668849.0	4281455.0	Other Sensitive	2.48	0.010	0.05
10187	668859.0	4281455.0	Other Sensitive	2.54	0.011	0.05
10188	668869.0	4281455.0	Other Sensitive	2.61	0.011	0.05
10189	668879.0	4281455.0	Roadway/Open Space	-	-	0.05
10190	668889.0	4281455.0	Residential	2.71	0.011	0.05
10191	668899.0	4281455.0	Residential	2.73	0.011	0.05
10192	668909.0	4281455.0	Residential	2.73	0.011	0.06
10193	668919.0	4281455.0	Residential	2.75	0.011	0.05
10194	668929.0	4281455.0	Roadway/Open Space	-	-	0.05
10195	668939.0	4281455.0	Residential	2.80	0.012	0.05
10196	668949.0	4281455.0	Residential	2.81	0.012	0.05
10197	668959.0	4281455.0	Residential	2.83	0.012	0.05
10198	668969.0	4281455.0	Residential	2.85	0.012	0.05
10199	668979.0	4281455.0	Residential	2.87	0.012	0.05
10200	668989.0	4281455.0	Residential	2.87	0.012	0.05

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10201	668999.0	4281455.0	Residential	2.85	0.012	0.05
10202	669009.0	4281455.0	Residential	2.83	0.012	0.05
10203	669019.0	4281455.0	Residential	2.80	0.012	0.05
10204	669029.0	4281455.0	Roadway/Open Space	-	-	0.04
10205	669039.0	4281455.0	Residential	2.73	0.011	0.04
10206	669049.0	4281455.0	Residential	2.69	0.011	0.04
10207	669059.0	4281455.0	Residential	2.66	0.011	0.04
10208	669069.0	4281455.0	Residential	2.65	0.011	0.03
10209	669079.0	4281455.0	Residential	2.64	0.011	0.03
10210	669089.0	4281455.0	Residential	2.64	0.011	0.03
10211	669099.0	4281455.0	Residential	2.63	0.011	0.03
10212	669109.0	4281455.0	Residential	2.62	0.011	0.03
10213	669119.0	4281455.0	Residential	2.63	0.011	0.03
10214	669129.0	4281455.0	Residential	2.64	0.011	0.03
10215	669139.0	4281455.0	Residential	2.67	0.011	0.03
10216	669149.0	4281455.0	Residential	2.69	0.011	0.03
10217	669159.0	4281455.0	Residential	2.70	0.011	0.03
10218	669169.0	4281455.0	Residential	2.70	0.011	0.03
10219	669179.0	4281455.0	Residential	2.69	0.011	0.03
10220	669189.0	4281455.0	Residential	2.68	0.011	0.03
10221	669199.0	4281455.0	Residential	2.67	0.011	0.03
10222	669209.0	4281455.0	Residential	2.65	0.011	0.02
10223	669219.0	4281455.0	Residential	2.61	0.011	0.02
10224	669229.0	4281455.0	Roadway/Open Space	-	-	0.02
10225	669239.0	4281455.0	Roadway/Open Space	-	-	0.02
10226	668709.0	4281465.0	Other Sensitive	1.82	0.008	0.03
10227	668719.0	4281465.0	Other Sensitive	1.86	0.008	0.03
10228	668729.0	4281465.0	Other Sensitive	1.91	0.008	0.03
10229	668739.0	4281465.0	Other Sensitive	1.96	0.008	0.03
10230	668749.0	4281465.0	Other Sensitive	2.03	0.008	0.03
10231	668759.0	4281465.0	Other Sensitive	2.09	0.009	0.03
10232	668769.0	4281465.0	Other Sensitive	2.13	0.009	0.03
10233	668779.0	4281465.0	Other Sensitive	2.17	0.009	0.03
10234	668789.0	4281465.0	Other Sensitive	2.20	0.009	0.04
10235	668799.0	4281465.0	Other Sensitive	2.23	0.009	0.04
10236	668809.0	4281465.0	Other Sensitive	2.26	0.009	0.04
10237	668819.0	4281465.0	Other Sensitive	2.29	0.009	0.04
10238	668829.0	4281465.0	Other Sensitive	2.32	0.010	0.05
10239	668839.0	4281465.0	Other Sensitive	2.35	0.010	0.05
10240	668849.0	4281465.0	Other Sensitive	2.40	0.010	0.05
10241	668859.0	4281465.0	Other Sensitive	2.46	0.010	0.05
10242	668869.0	4281465.0	Other Sensitive	2.52	0.010	0.05
10243	668879.0	4281465.0	Residential	2.57	0.011	0.05
10244	668889.0	4281465.0	Residential	2.60	0.011	0.05
10245	668899.0	4281465.0	Residential	2.62	0.011	0.05
10246	668909.0	4281465.0	Residential	2.64	0.011	0.05
10247	668919.0	4281465.0	Roadway/Open Space	-	-	0.05
10248	668929.0	4281465.0	Residential	2.67	0.011	0.05
10249	668939.0	4281465.0	Residential	2.69	0.011	0.05
10250	668949.0	4281465.0	Residential	2.70	0.011	0.05
10251	668959.0	4281465.0	Residential	2.71	0.011	0.05
10252	668969.0	4281465.0	Residential	2.73	0.011	0.05
10253	668979.0	4281465.0	Residential	2.76	0.011	0.05
10254	668989.0	4281465.0	Residential	2.77	0.012	0.05
10255	668999.0	4281465.0	Residential	2.75	0.011	0.05
10256	669009.0	4281465.0	Residential	2.72	0.011	0.05
10257	669019.0	4281465.0	Roadway/Open Space	-	-	0.05
10258	669029.0	4281465.0	Roadway/Open Space	-	-	0.04
10259	669039.0	4281465.0	Residential	2.61	0.011	0.04
10260	669049.0	4281465.0	Residential	2.57	0.011	0.04
10261	669059.0	4281465.0	Residential	2.54	0.011	0.03
10262	669069.0	4281465.0	Residential	2.53	0.010	0.03
10263	669079.0	4281465.0	Residential	2.52	0.010	0.03
10264	669089.0	4281465.0	Residential	2.51	0.010	0.03
10265	669099.0	4281465.0	Residential	2.51	0.010	0.03
10266	669109.0	4281465.0	Residential	2.50	0.010	0.03
10267	669119.0	4281465.0	Residential	2.50	0.010	0.03
10268	669129.0	4281465.0	Residential	2.49	0.010	0.02
10269	669139.0	4281465.0	Residential	2.49	0.010	0.03
10270	669149.0	4281465.0	Residential	2.50	0.010	0.03
10271	669159.0	4281465.0	Residential	2.50	0.010	0.03
10272	669169.0	4281465.0	Residential	2.50	0.010	0.02
10273	669179.0	4281465.0	Residential	2.50	0.010	0.02
10274	669189.0	4281465.0	Residential	2.52	0.010	0.02
10275	669199.0	4281465.0	Residential	2.54	0.011	0.02
10276	669209.0	4281465.0	Residential	2.53	0.011	0.02
10277	668729.0	4281475.0	Other Sensitive	1.90	0.008	0.03
10278	668739.0	4281475.0	Other Sensitive	1.95	0.008	0.03
10279	668749.0	4281475.0	Other Sensitive	2.01	0.008	0.03
10280	668759.0	4281475.0	Other Sensitive	2.05	0.008	0.03
10281	668769.0	4281475.0	Other Sensitive	2.08	0.009	0.03
10282	668779.0	4281475.0	Other Sensitive	2.12	0.009	0.03
10283	668789.0	4281475.0	Other Sensitive	2.15	0.009	0.03
10284	668799.0	4281475.0	Other Sensitive	2.18	0.009	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10285	668809.0	4281475.0	Other Sensitive	2.21	0.009	0.04
10286	668819.0	4281475.0	Other Sensitive	2.23	0.009	0.04
10287	668829.0	4281475.0	Other Sensitive	2.25	0.009	0.04
10288	668839.0	4281475.0	Other Sensitive	2.28	0.009	0.04
10289	668849.0	4281475.0	Other Sensitive	2.32	0.010	0.04
10290	668859.0	4281475.0	Other Sensitive	2.38	0.010	0.05
10291	668869.0	4281475.0	Other Sensitive	2.44	0.010	0.05
10292	668879.0	4281475.0	Residential	2.47	0.010	0.05
10293	668889.0	4281475.0	Residential	2.50	0.010	0.05
10294	668899.0	4281475.0	Residential	2.52	0.010	0.05
10295	668909.0	4281475.0	Residential	2.54	0.011	0.05
10296	668919.0	4281475.0	Roadway/Open Space	-	-	0.05
10297	668929.0	4281475.0	Residential	2.57	0.011	0.05
10298	668939.0	4281475.0	Residential	2.59	0.011	0.05
10299	668949.0	4281475.0	Residential	2.59	0.011	0.05
10300	668959.0	4281475.0	Residential	2.60	0.011	0.05
10301	668969.0	4281475.0	Residential	2.61	0.011	0.05
10302	668979.0	4281475.0	Residential	2.64	0.011	0.05
10303	668989.0	4281475.0	Residential	2.66	0.011	0.05
10304	668999.0	4281475.0	Residential	2.66	0.011	0.05
10305	669009.0	4281475.0	Residential	2.63	0.011	0.05
10306	669019.0	4281475.0	Roadway/Open Space	-	-	0.04
10307	669029.0	4281475.0	Roadway/Open Space	-	-	0.04
10308	669039.0	4281475.0	Roadway/Open Space	-	-	0.04
10309	669049.0	4281475.0	Roadway/Open Space	-	-	0.03
10310	669059.0	4281475.0	Residential	2.44	0.010	0.03
10311	669069.0	4281475.0	Residential	2.42	0.010	0.03
10312	669079.0	4281475.0	Residential	2.41	0.010	0.03
10313	669089.0	4281475.0	Residential	2.40	0.010	0.03
10314	669099.0	4281475.0	Residential	2.39	0.010	0.03
10315	669109.0	4281475.0	Residential	2.39	0.010	0.03
10316	669119.0	4281475.0	Residential	2.37	0.010	0.02
10317	669129.0	4281475.0	Residential	2.35	0.010	0.02
10318	669139.0	4281475.0	Residential	2.34	0.010	0.02
10319	669149.0	4281475.0	Residential	2.34	0.010	0.02
10320	669159.0	4281475.0	Residential	2.34	0.010	0.02
10321	669169.0	4281475.0	Residential	2.34	0.010	0.02
10322	669179.0	4281475.0	Residential	2.35	0.010	0.02
10323	669189.0	4281475.0	Residential	2.38	0.010	0.02
10324	668749.0	4281485.0	Other Sensitive	1.97	0.008	0.03
10325	668759.0	4281485.0	Other Sensitive	2.00	0.008	0.03
10326	668769.0	4281485.0	Other Sensitive	2.03	0.008	0.03
10327	668779.0	4281485.0	Other Sensitive	2.07	0.009	0.03
10328	668789.0	4281485.0	Other Sensitive	2.10	0.009	0.04
10329	668799.0	4281485.0	Other Sensitive	2.13	0.009	0.04
10330	668809.0	4281485.0	Other Sensitive	2.15	0.009	0.04
10331	668819.0	4281485.0	Other Sensitive	2.17	0.009	0.04
10332	668829.0	4281485.0	Other Sensitive	2.18	0.009	0.04
10333	668839.0	4281485.0	Other Sensitive	2.20	0.009	0.04
10334	668849.0	4281485.0	Other Sensitive	2.24	0.009	0.04
10335	668859.0	4281485.0	Other Sensitive	2.30	0.010	0.04
10336	668869.0	4281485.0	Roadway/Open Space	-	-	0.05
10337	668879.0	4281485.0	Residential	2.37	0.010	0.05
10338	668889.0	4281485.0	Residential	2.40	0.010	0.05
10339	668899.0	4281485.0	Residential	2.43	0.010	0.05
10340	668909.0	4281485.0	Residential	2.46	0.010	0.05
10341	668919.0	4281485.0	Roadway/Open Space	-	-	0.05
10342	668929.0	4281485.0	Residential	2.48	0.010	0.05
10343	668939.0	4281485.0	Residential	2.48	0.010	0.05
10344	668949.0	4281485.0	Residential	2.49	0.010	0.05
10345	668959.0	4281485.0	Residential	2.49	0.010	0.05
10346	668969.0	4281485.0	Residential	2.50	0.010	0.05
10347	668979.0	4281485.0	Residential	2.51	0.010	0.05
10348	668989.0	4281485.0	Residential	2.53	0.011	0.05
10349	668999.0	4281485.0	Residential	2.54	0.011	0.05
10350	669009.0	4281485.0	Residential	2.51	0.010	0.04
10351	669019.0	4281485.0	Roadway/Open Space	-	-	0.04
10352	669029.0	4281485.0	Residential	2.44	0.010	0.04
10353	669039.0	4281485.0	Residential	2.39	0.010	0.04
10354	669049.0	4281485.0	Residential	2.37	0.010	0.03
10355	669059.0	4281485.0	Roadway/Open Space	-	-	0.03
10356	669069.0	4281485.0	Roadway/Open Space	-	-	0.03
10357	669079.0	4281485.0	Roadway/Open Space	-	-	0.03
10358	669089.0	4281485.0	Residential	2.31	0.010	0.03
10359	669099.0	4281485.0	Residential	2.30	0.010	0.03
10360	669109.0	4281485.0	Residential	2.29	0.009	0.02
10361	669119.0	4281485.0	Residential	2.25	0.009	0.02
10362	669129.0	4281485.0	Residential	2.23	0.009	0.02
10363	669139.0	4281485.0	Residential	2.22	0.009	0.02
10364	669149.0	4281485.0	Residential	2.21	0.009	0.02
10365	669159.0	4281485.0	Residential	2.21	0.009	0.02
10366	668759.0	4281495.0	Roadway/Open Space	-	-	0.03
10367	668769.0	4281495.0	Roadway/Open Space	-	-	0.03
10368	668779.0	4281495.0	Roadway/Open Space	-	-	0.03

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10369	668789.0	4281495.0	Roadway/Open Space	-	-	0.04
10370	668799.0	4281495.0	Other Sensitive	2.07	0.009	0.04
10371	668809.0	4281495.0	Other Sensitive	2.09	0.009	0.04
10372	668819.0	4281495.0	Other Sensitive	2.10	0.009	0.04
10373	668829.0	4281495.0	Other Sensitive	2.11	0.009	0.04
10374	668839.0	4281495.0	Other Sensitive	2.12	0.009	0.04
10375	668849.0	4281495.0	Other Sensitive	2.16	0.009	0.04
10376	668859.0	4281495.0	Other Sensitive	2.21	0.009	0.04
10377	668869.0	4281495.0	Residential	2.26	0.009	0.05
10378	668879.0	4281495.0	Residential	2.29	0.010	0.05
10379	668889.0	4281495.0	Residential	2.32	0.010	0.05
10380	668899.0	4281495.0	Residential	2.35	0.010	0.05
10381	668909.0	4281495.0	Roadway/Open Space	-	-	0.05
10382	668919.0	4281495.0	Residential	2.39	0.010	0.05
10383	668929.0	4281495.0	Residential	2.39	0.010	0.05
10384	668939.0	4281495.0	Residential	2.39	0.010	0.04
10385	668949.0	4281495.0	Residential	2.38	0.010	0.05
10386	668959.0	4281495.0	Residential	2.38	0.010	0.05
10387	668969.0	4281495.0	Residential	2.37	0.010	0.05
10388	668979.0	4281495.0	Residential	2.38	0.010	0.05
10389	668989.0	4281495.0	Residential	2.39	0.010	0.04
10390	668999.0	4281495.0	Residential	2.39	0.010	0.04
10391	669009.0	4281495.0	Roadway/Open Space	-	-	0.04
10392	669019.0	4281495.0	Residential	2.36	0.010	0.04
10393	669029.0	4281495.0	Residential	2.34	0.010	0.04
10394	669039.0	4281495.0	Residential	2.31	0.010	0.03
10395	669049.0	4281495.0	Residential	2.29	0.010	0.03
10396	669059.0	4281495.0	Residential	2.28	0.009	0.03
10397	669069.0	4281495.0	Residential	2.26	0.009	0.03
10398	669079.0	4281495.0	Residential	2.26	0.009	0.03
10399	669089.0	4281495.0	Roadway/Open Space	-	-	0.03
10400	669099.0	4281495.0	Roadway/Open Space	-	-	0.03
10401	669109.0	4281495.0	Roadway/Open Space	-	-	0.02
10402	669119.0	4281495.0	Residential	2.16	0.009	0.02
10403	669129.0	4281495.0	Residential	2.14	0.009	0.02
10404	669139.0	4281495.0	Residential	2.12	0.009	0.02
10405	668779.0	4281505.0	Roadway/Open Space	-	-	0.03
10406	668789.0	4281505.0	Roadway/Open Space	-	-	0.04
10407	668799.0	4281505.0	Roadway/Open Space	-	-	0.04
10408	668809.0	4281505.0	Roadway/Open Space	-	-	0.04
10409	668819.0	4281505.0	Roadway/Open Space	-	-	0.04
10410	668829.0	4281505.0	Roadway/Open Space	-	-	0.04
10411	668839.0	4281505.0	Other Sensitive	2.05	0.009	0.04
10412	668849.0	4281505.0	Other Sensitive	2.08	0.009	0.04
10413	668859.0	4281505.0	Other Sensitive	2.12	0.009	0.04
10414	668869.0	4281505.0	Residential	2.17	0.009	0.04
10415	668879.0	4281505.0	Residential	2.21	0.009	0.05
10416	668889.0	4281505.0	Residential	2.24	0.009	0.05
10417	668899.0	4281505.0	Residential	2.27	0.009	0.05
10418	668909.0	4281505.0	Roadway/Open Space	-	-	0.04
10419	668919.0	4281505.0	Residential	2.30	0.010	0.04
10420	668929.0	4281505.0	Residential	2.30	0.010	0.04
10421	668939.0	4281505.0	Residential	2.29	0.010	0.04
10422	668949.0	4281505.0	Residential	2.27	0.009	0.04
10423	668959.0	4281505.0	Residential	2.26	0.009	0.04
10424	668969.0	4281505.0	Residential	2.25	0.009	0.04
10425	668979.0	4281505.0	Residential	2.25	0.009	0.04
10426	668989.0	4281505.0	Residential	2.26	0.009	0.04
10427	668999.0	4281505.0	Residential	2.25	0.009	0.04
10428	669009.0	4281505.0	Roadway/Open Space	-	-	0.04
10429	669019.0	4281505.0	Residential	2.24	0.009	0.04
10430	669029.0	4281505.0	Residential	2.22	0.009	0.04
10431	669039.0	4281505.0	Residential	2.22	0.009	0.03
10432	669049.0	4281505.0	Residential	2.22	0.009	0.03
10433	669059.0	4281505.0	Residential	2.22	0.009	0.03
10434	669069.0	4281505.0	Residential	2.22	0.009	0.03
10435	669079.0	4281505.0	Residential	2.22	0.009	0.03
10436	669089.0	4281505.0	Residential	2.22	0.009	0.03
10437	669099.0	4281505.0	Residential	2.21	0.009	0.03
10438	669109.0	4281505.0	Residential	2.16	0.009	0.02
10439	669119.0	4281505.0	Roadway/Open Space	-	-	0.02
10440	668809.0	4281515.0	Roadway/Open Space	-	-	0.04
10441	668819.0	4281515.0	Roadway/Open Space	-	-	0.04
10442	668829.0	4281515.0	Roadway/Open Space	-	-	0.04
10443	668839.0	4281515.0	Roadway/Open Space	-	-	0.04
10444	668849.0	4281515.0	Roadway/Open Space	-	-	0.04
10445	668859.0	4281515.0	Roadway/Open Space	-	-	0.04
10446	668869.0	4281515.0	Residential	2.07	0.009	0.04
10447	668879.0	4281515.0	Residential	2.11	0.009	0.04
10448	668889.0	4281515.0	Residential	2.15	0.009	0.04
10449	668899.0	4281515.0	Residential	2.19	0.009	0.04
10450	668909.0	4281515.0	Roadway/Open Space	-	-	0.04
10451	668919.0	4281515.0	Residential	2.23	0.009	0.04
10452	668929.0	4281515.0	Residential	2.22	0.009	0.04

Table E-1. Health Risk Assessment Results for All Receptors - Unmitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10453	668939.0	4281515.0	Residential	2.20	0.009	0.04
10454	668949.0	4281515.0	Residential	2.17	0.009	0.04
10455	668959.0	4281515.0	Residential	2.16	0.009	0.04
10456	668969.0	4281515.0	Residential	2.15	0.009	0.04
10457	668979.0	4281515.0	Residential	2.15	0.009	0.04
10458	668989.0	4281515.0	Residential	2.14	0.009	0.04
10459	668999.0	4281515.0	Residential	2.13	0.009	0.04
10460	669009.0	4281515.0	Roadway/Open Space	-	-	0.04
10461	669019.0	4281515.0	Residential	2.12	0.009	0.04
10462	669029.0	4281515.0	Residential	2.11	0.009	0.03
10463	669039.0	4281515.0	Residential	2.12	0.009	0.03
10464	669049.0	4281515.0	Residential	2.13	0.009	0.03
10465	669059.0	4281515.0	Residential	2.15	0.009	0.03
10466	669069.0	4281515.0	Residential	2.17	0.009	0.03
10467	669079.0	4281515.0	Residential	2.19	0.009	0.03
10468	669089.0	4281515.0	Residential	2.20	0.009	0.03
10469	668839.0	4281525.0	Roadway/Open Space	-	-	0.04
10470	668849.0	4281525.0	Roadway/Open Space	-	-	0.04
10471	668859.0	4281525.0	Roadway/Open Space	-	-	0.04
10472	668869.0	4281525.0	Roadway/Open Space	-	-	0.04
10473	668879.0	4281525.0	Residential	2.02	0.008	0.04
10474	668889.0	4281525.0	Residential	2.07	0.009	0.04
10475	668899.0	4281525.0	Roadway/Open Space	-	-	0.04
10476	668909.0	4281525.0	Roadway/Open Space	-	-	0.04
10477	668919.0	4281525.0	Residential	2.16	0.009	0.04
10478	668929.0	4281525.0	Residential	2.15	0.009	0.04
10479	668939.0	4281525.0	Residential	2.11	0.009	0.04
10480	668949.0	4281525.0	Residential	2.09	0.009	0.04
10481	668959.0	4281525.0	Residential	2.07	0.009	0.04
10482	668969.0	4281525.0	Residential	2.06	0.009	0.04
10483	668979.0	4281525.0	Residential	2.05	0.009	0.04
10484	668989.0	4281525.0	Residential	2.04	0.008	0.04
10485	668999.0	4281525.0	Roadway/Open Space	-	-	0.04
10486	669009.0	4281525.0	Residential	2.02	0.008	0.03
10487	669019.0	4281525.0	Residential	2.01	0.008	0.03
10488	669029.0	4281525.0	Residential	2.02	0.008	0.03
10489	669039.0	4281525.0	Residential	2.02	0.008	0.03
10490	669049.0	4281525.0	Residential	2.03	0.008	0.03
10491	669059.0	4281525.0	Residential	2.05	0.009	0.03
10492	668879.0	4281535.0	Roadway/Open Space	-	-	0.04
10493	668889.0	4281535.0	Roadway/Open Space	-	-	0.04
10494	668899.0	4281535.0	Roadway/Open Space	-	-	0.04
10495	668909.0	4281535.0	Residential	2.10	0.009	0.04
10496	668919.0	4281535.0	Residential	2.10	0.009	0.04
10497	668929.0	4281535.0	Residential	2.07	0.009	0.04
10498	668939.0	4281535.0	Residential	2.03	0.008	0.04
10499	668949.0	4281535.0	Residential	2.01	0.008	0.04
10500	668959.0	4281535.0	Residential	1.99	0.008	0.04
10501	668969.0	4281535.0	Residential	1.97	0.008	0.04
10502	668979.0	4281535.0	Residential	1.95	0.008	0.04
10503	668989.0	4281535.0	Residential	1.94	0.008	0.03
10504	668999.0	4281535.0	Roadway/Open Space	-	-	0.03
10505	669009.0	4281535.0	Residential	1.92	0.008	0.03
10506	669019.0	4281535.0	Residential	1.92	0.008	0.03

Notes:

- ¹ The receptors with the maximum estimated cancer risk, chronic hazard index, and acute hazard index for each receptor type are highlighted in light grey.
- ² Cancer risk and chronic hazard index are not assessed for Roadway/Open Space receptors, as long term exposures are not expected at these locations.

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1	668989.0	4280225.0	Roadway/Open Space	-	-	0.02
2	668999.0	4280225.0	Roadway/Open Space	-	-	0.02
3	669009.0	4280225.0	Roadway/Open Space	-	-	0.02
4	669019.0	4280225.0	Roadway/Open Space	-	-	0.01
5	669029.0	4280225.0	Roadway/Open Space	-	-	0.01
6	669039.0	4280225.0	Roadway/Open Space	-	-	0.01
7	669049.0	4280225.0	Roadway/Open Space	-	-	0.01
8	669059.0	4280225.0	Roadway/Open Space	-	-	0.01
9	669069.0	4280225.0	Roadway/Open Space	-	-	0.01
10	669079.0	4280225.0	Roadway/Open Space	-	-	0.01
11	669089.0	4280225.0	Roadway/Open Space	-	-	0.01
12	669099.0	4280225.0	Roadway/Open Space	-	-	0.01
13	668949.0	4280235.0	Roadway/Open Space	-	-	0.02
14	668959.0	4280235.0	Roadway/Open Space	-	-	0.02
15	668969.0	4280235.0	Roadway/Open Space	-	-	0.02
16	668979.0	4280235.0	Roadway/Open Space	-	-	0.02
17	668989.0	4280235.0	Roadway/Open Space	-	-	0.02
18	668999.0	4280235.0	Roadway/Open Space	-	-	0.02
19	669009.0	4280235.0	Roadway/Open Space	-	-	0.02
20	669019.0	4280235.0	Roadway/Open Space	-	-	0.01
21	669029.0	4280235.0	Roadway/Open Space	-	-	0.01
22	669039.0	4280235.0	Roadway/Open Space	-	-	0.01
23	669049.0	4280235.0	Roadway/Open Space	-	-	0.01
24	669059.0	4280235.0	Roadway/Open Space	-	-	0.01
25	669069.0	4280235.0	Roadway/Open Space	-	-	0.01
26	669079.0	4280235.0	Roadway/Open Space	-	-	0.01
27	669089.0	4280235.0	Roadway/Open Space	-	-	0.01
28	669099.0	4280235.0	Roadway/Open Space	-	-	0.01
29	669109.0	4280235.0	Roadway/Open Space	-	-	0.01
30	669119.0	4280235.0	Roadway/Open Space	-	-	0.01
31	669129.0	4280235.0	Roadway/Open Space	-	-	0.01
32	669139.0	4280235.0	Roadway/Open Space	-	-	0.01
33	669149.0	4280235.0	Roadway/Open Space	-	-	0.01
34	668909.0	4280245.0	Roadway/Open Space	-	-	0.02
35	668919.0	4280245.0	Roadway/Open Space	-	-	0.02
36	668929.0	4280245.0	Roadway/Open Space	-	-	0.02
37	668939.0	4280245.0	Roadway/Open Space	-	-	0.02
38	668949.0	4280245.0	Roadway/Open Space	-	-	0.02
39	668959.0	4280245.0	Roadway/Open Space	-	-	0.02
40	668969.0	4280245.0	Roadway/Open Space	-	-	0.02
41	668979.0	4280245.0	Roadway/Open Space	-	-	0.02
42	668989.0	4280245.0	Roadway/Open Space	-	-	0.02
43	668999.0	4280245.0	Roadway/Open Space	-	-	0.02
44	669009.0	4280245.0	Roadway/Open Space	-	-	0.01
45	669019.0	4280245.0	Roadway/Open Space	-	-	0.01
46	669029.0	4280245.0	Roadway/Open Space	-	-	0.01
47	669039.0	4280245.0	Roadway/Open Space	-	-	0.01
48	669049.0	4280245.0	Roadway/Open Space	-	-	0.01
49	669059.0	4280245.0	Roadway/Open Space	-	-	0.01
50	669069.0	4280245.0	Roadway/Open Space	-	-	0.01
51	669079.0	4280245.0	Roadway/Open Space	-	-	0.01
52	669089.0	4280245.0	Roadway/Open Space	-	-	0.01
53	669099.0	4280245.0	Roadway/Open Space	-	-	0.01
54	669109.0	4280245.0	Roadway/Open Space	-	-	0.01
55	669119.0	4280245.0	Roadway/Open Space	-	-	0.01
56	669129.0	4280245.0	Roadway/Open Space	-	-	0.01
57	669139.0	4280245.0	Roadway/Open Space	-	-	0.01
58	669149.0	4280245.0	Roadway/Open Space	-	-	0.01
59	669159.0	4280245.0	Roadway/Open Space	-	-	0.01
60	669169.0	4280245.0	Roadway/Open Space	-	-	0.01
61	669179.0	4280245.0	Roadway/Open Space	-	-	0.01
62	668889.0	4280255.0	Roadway/Open Space	-	-	0.02
63	668899.0	4280255.0	Roadway/Open Space	-	-	0.02
64	668909.0	4280255.0	Roadway/Open Space	-	-	0.02
65	668919.0	4280255.0	Roadway/Open Space	-	-	0.02
66	668929.0	4280255.0	Roadway/Open Space	-	-	0.02
67	668939.0	4280255.0	Roadway/Open Space	-	-	0.02
68	668949.0	4280255.0	Roadway/Open Space	-	-	0.02
69	668959.0	4280255.0	Roadway/Open Space	-	-	0.02
70	668969.0	4280255.0	Roadway/Open Space	-	-	0.02
71	668979.0	4280255.0	Roadway/Open Space	-	-	0.02
72	668989.0	4280255.0	Roadway/Open Space	-	-	0.02
73	668999.0	4280255.0	Roadway/Open Space	-	-	0.02
74	669009.0	4280255.0	Roadway/Open Space	-	-	0.01
75	669019.0	4280255.0	Roadway/Open Space	-	-	0.01
76	669029.0	4280255.0	Roadway/Open Space	-	-	0.01
77	669039.0	4280255.0	Roadway/Open Space	-	-	0.01
78	669049.0	4280255.0	Roadway/Open Space	-	-	0.01
79	669059.0	4280255.0	Roadway/Open Space	-	-	0.01
80	669069.0	4280255.0	Roadway/Open Space	-	-	0.01
81	669079.0	4280255.0	Roadway/Open Space	-	-	0.01
82	669089.0	4280255.0	Roadway/Open Space	-	-	0.01
83	669099.0	4280255.0	Roadway/Open Space	-	-	0.01
84	669109.0	4280255.0	Roadway/Open Space	-	-	0.01

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
85	669119.0	4280255.0	Roadway/Open Space	-	-	0.01
86	669129.0	4280255.0	Roadway/Open Space	-	-	0.01
87	669139.0	4280255.0	Roadway/Open Space	-	-	0.01
88	669149.0	4280255.0	Roadway/Open Space	-	-	0.01
89	669159.0	4280255.0	Roadway/Open Space	-	-	0.01
90	669169.0	4280255.0	Roadway/Open Space	-	-	0.01
91	669179.0	4280255.0	Roadway/Open Space	-	-	0.01
92	669189.0	4280255.0	Roadway/Open Space	-	-	0.01
93	669199.0	4280255.0	Roadway/Open Space	-	-	0.01
94	669209.0	4280255.0	Roadway/Open Space	-	-	0.01
95	668869.0	4280265.0	Roadway/Open Space	-	-	0.02
96	668879.0	4280265.0	Roadway/Open Space	-	-	0.02
97	668889.0	4280265.0	Roadway/Open Space	-	-	0.02
98	668899.0	4280265.0	Roadway/Open Space	-	-	0.02
99	668909.0	4280265.0	Roadway/Open Space	-	-	0.02
100	668919.0	4280265.0	Roadway/Open Space	-	-	0.02
101	668929.0	4280265.0	Roadway/Open Space	-	-	0.02
102	668939.0	4280265.0	Roadway/Open Space	-	-	0.02
103	668949.0	4280265.0	Roadway/Open Space	-	-	0.02
104	668959.0	4280265.0	Roadway/Open Space	-	-	0.02
105	668969.0	4280265.0	Roadway/Open Space	-	-	0.02
106	668979.0	4280265.0	Roadway/Open Space	-	-	0.02
107	668989.0	4280265.0	Roadway/Open Space	-	-	0.02
108	668999.0	4280265.0	Roadway/Open Space	-	-	0.02
109	669009.0	4280265.0	Roadway/Open Space	-	-	0.01
110	669019.0	4280265.0	Roadway/Open Space	-	-	0.01
111	669029.0	4280265.0	Roadway/Open Space	-	-	0.01
112	669039.0	4280265.0	Roadway/Open Space	-	-	0.01
113	669049.0	4280265.0	Roadway/Open Space	-	-	0.01
114	669059.0	4280265.0	Roadway/Open Space	-	-	0.01
115	669069.0	4280265.0	Roadway/Open Space	-	-	0.01
116	669079.0	4280265.0	Roadway/Open Space	-	-	0.01
117	669089.0	4280265.0	Roadway/Open Space	-	-	0.01
118	669099.0	4280265.0	Roadway/Open Space	-	-	0.01
119	669109.0	4280265.0	Roadway/Open Space	-	-	0.01
120	669119.0	4280265.0	Roadway/Open Space	-	-	0.01
121	669129.0	4280265.0	Roadway/Open Space	-	-	0.01
122	669139.0	4280265.0	Roadway/Open Space	-	-	0.01
123	669149.0	4280265.0	Roadway/Open Space	-	-	0.01
124	669159.0	4280265.0	Roadway/Open Space	-	-	0.01
125	669169.0	4280265.0	Roadway/Open Space	-	-	0.01
126	669179.0	4280265.0	Roadway/Open Space	-	-	0.01
127	669189.0	4280265.0	Roadway/Open Space	-	-	0.01
128	669199.0	4280265.0	Roadway/Open Space	-	-	0.01
129	669209.0	4280265.0	Roadway/Open Space	-	-	0.01
130	669219.0	4280265.0	Roadway/Open Space	-	-	0.01
131	669229.0	4280265.0	Roadway/Open Space	-	-	0.01
132	668849.0	4280275.0	Roadway/Open Space	-	-	0.02
133	668859.0	4280275.0	Roadway/Open Space	-	-	0.02
134	668869.0	4280275.0	Roadway/Open Space	-	-	0.02
135	668879.0	4280275.0	Roadway/Open Space	-	-	0.02
136	668889.0	4280275.0	Roadway/Open Space	-	-	0.02
137	668899.0	4280275.0	Roadway/Open Space	-	-	0.02
138	668909.0	4280275.0	Roadway/Open Space	-	-	0.02
139	668919.0	4280275.0	Roadway/Open Space	-	-	0.02
140	668929.0	4280275.0	Roadway/Open Space	-	-	0.02
141	668939.0	4280275.0	Roadway/Open Space	-	-	0.02
142	668949.0	4280275.0	Roadway/Open Space	-	-	0.02
143	668959.0	4280275.0	Roadway/Open Space	-	-	0.02
144	668969.0	4280275.0	Roadway/Open Space	-	-	0.02
145	668979.0	4280275.0	Roadway/Open Space	-	-	0.02
146	668989.0	4280275.0	Roadway/Open Space	-	-	0.02
147	668999.0	4280275.0	Roadway/Open Space	-	-	0.02
148	669009.0	4280275.0	Roadway/Open Space	-	-	0.01
149	669019.0	4280275.0	Roadway/Open Space	-	-	0.01
150	669029.0	4280275.0	Roadway/Open Space	-	-	0.01
151	669039.0	4280275.0	Roadway/Open Space	-	-	0.01
152	669049.0	4280275.0	Roadway/Open Space	-	-	0.01
153	669059.0	4280275.0	Roadway/Open Space	-	-	0.01
154	669069.0	4280275.0	Roadway/Open Space	-	-	0.01
155	669079.0	4280275.0	Roadway/Open Space	-	-	0.01
156	669089.0	4280275.0	Roadway/Open Space	-	-	0.01
157	669099.0	4280275.0	Roadway/Open Space	-	-	0.01
158	669109.0	4280275.0	Roadway/Open Space	-	-	0.01
159	669119.0	4280275.0	Roadway/Open Space	-	-	0.01
160	669129.0	4280275.0	Roadway/Open Space	-	-	0.01
161	669139.0	4280275.0	Roadway/Open Space	-	-	0.01
162	669149.0	4280275.0	Roadway/Open Space	-	-	0.01
163	669159.0	4280275.0	Roadway/Open Space	-	-	0.01
164	669169.0	4280275.0	Roadway/Open Space	-	-	0.01
165	669179.0	4280275.0	Roadway/Open Space	-	-	0.01
166	669189.0	4280275.0	Roadway/Open Space	-	-	0.01
167	669199.0	4280275.0	Roadway/Open Space	-	-	0.01
168	669209.0	4280275.0	Roadway/Open Space	-	-	0.01

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
169	669219.0	4280275.0	Roadway/Open Space	-	-	0.01
170	669229.0	4280275.0	Roadway/Open Space	-	-	0.01
171	669239.0	4280275.0	Roadway/Open Space	-	-	0.01
172	669249.0	4280275.0	Roadway/Open Space	-	-	0.01
173	668829.0	4280285.0	Roadway/Open Space	-	-	0.02
174	668839.0	4280285.0	Roadway/Open Space	-	-	0.02
175	668849.0	4280285.0	Roadway/Open Space	-	-	0.02
176	668859.0	4280285.0	Roadway/Open Space	-	-	0.02
177	668869.0	4280285.0	Roadway/Open Space	-	-	0.02
178	668879.0	4280285.0	Roadway/Open Space	-	-	0.02
179	668889.0	4280285.0	Roadway/Open Space	-	-	0.02
180	668899.0	4280285.0	Roadway/Open Space	-	-	0.02
181	668909.0	4280285.0	Roadway/Open Space	-	-	0.02
182	668919.0	4280285.0	Roadway/Open Space	-	-	0.02
183	668929.0	4280285.0	Roadway/Open Space	-	-	0.02
184	668939.0	4280285.0	Roadway/Open Space	-	-	0.02
185	668949.0	4280285.0	Roadway/Open Space	-	-	0.02
186	668959.0	4280285.0	Roadway/Open Space	-	-	0.02
187	668969.0	4280285.0	Roadway/Open Space	-	-	0.02
188	668979.0	4280285.0	Roadway/Open Space	-	-	0.02
189	668989.0	4280285.0	Roadway/Open Space	-	-	0.02
190	668999.0	4280285.0	Roadway/Open Space	-	-	0.02
191	669009.0	4280285.0	Roadway/Open Space	-	-	0.02
192	669019.0	4280285.0	Roadway/Open Space	-	-	0.02
193	669029.0	4280285.0	Roadway/Open Space	-	-	0.01
194	669039.0	4280285.0	Roadway/Open Space	-	-	0.01
195	669049.0	4280285.0	Roadway/Open Space	-	-	0.01
196	669059.0	4280285.0	Roadway/Open Space	-	-	0.01
197	669069.0	4280285.0	Roadway/Open Space	-	-	0.01
198	669079.0	4280285.0	Roadway/Open Space	-	-	0.01
199	669089.0	4280285.0	Roadway/Open Space	-	-	0.01
200	669099.0	4280285.0	Roadway/Open Space	-	-	0.01
201	669109.0	4280285.0	Roadway/Open Space	-	-	0.01
202	669119.0	4280285.0	Roadway/Open Space	-	-	0.01
203	669129.0	4280285.0	Roadway/Open Space	-	-	0.01
204	669139.0	4280285.0	Roadway/Open Space	-	-	0.01
205	669149.0	4280285.0	Roadway/Open Space	-	-	0.01
206	669159.0	4280285.0	Roadway/Open Space	-	-	0.01
207	669169.0	4280285.0	Roadway/Open Space	-	-	0.01
208	669179.0	4280285.0	Roadway/Open Space	-	-	0.01
209	669189.0	4280285.0	Roadway/Open Space	-	-	0.01
210	669199.0	4280285.0	Roadway/Open Space	-	-	0.01
211	669209.0	4280285.0	Roadway/Open Space	-	-	0.01
212	669219.0	4280285.0	Roadway/Open Space	-	-	0.01
213	669229.0	4280285.0	Roadway/Open Space	-	-	0.01
214	669239.0	4280285.0	Roadway/Open Space	-	-	0.01
215	669249.0	4280285.0	Roadway/Open Space	-	-	0.01
216	669259.0	4280285.0	Roadway/Open Space	-	-	0.01
217	668819.0	4280295.0	Roadway/Open Space	-	-	0.02
218	668829.0	4280295.0	Roadway/Open Space	-	-	0.02
219	668839.0	4280295.0	Roadway/Open Space	-	-	0.02
220	668849.0	4280295.0	Roadway/Open Space	-	-	0.02
221	668859.0	4280295.0	Roadway/Open Space	-	-	0.02
222	668869.0	4280295.0	Roadway/Open Space	-	-	0.02
223	668879.0	4280295.0	Roadway/Open Space	-	-	0.02
224	668889.0	4280295.0	Roadway/Open Space	-	-	0.02
225	668899.0	4280295.0	Roadway/Open Space	-	-	0.02
226	668909.0	4280295.0	Roadway/Open Space	-	-	0.02
227	668919.0	4280295.0	Roadway/Open Space	-	-	0.02
228	668929.0	4280295.0	Roadway/Open Space	-	-	0.02
229	668939.0	4280295.0	Roadway/Open Space	-	-	0.02
230	668949.0	4280295.0	Roadway/Open Space	-	-	0.02
231	668959.0	4280295.0	Roadway/Open Space	-	-	0.02
232	668969.0	4280295.0	Roadway/Open Space	-	-	0.02
233	668979.0	4280295.0	Roadway/Open Space	-	-	0.02
234	668989.0	4280295.0	Roadway/Open Space	-	-	0.02
235	668999.0	4280295.0	Roadway/Open Space	-	-	0.02
236	669009.0	4280295.0	Roadway/Open Space	-	-	0.02
237	669019.0	4280295.0	Roadway/Open Space	-	-	0.02
238	669029.0	4280295.0	Roadway/Open Space	-	-	0.01
239	669039.0	4280295.0	Roadway/Open Space	-	-	0.01
240	669049.0	4280295.0	Roadway/Open Space	-	-	0.01
241	669059.0	4280295.0	Roadway/Open Space	-	-	0.01
242	669069.0	4280295.0	Roadway/Open Space	-	-	0.01
243	669079.0	4280295.0	Roadway/Open Space	-	-	0.01
244	669089.0	4280295.0	Roadway/Open Space	-	-	0.01
245	669099.0	4280295.0	Roadway/Open Space	-	-	0.01
246	669109.0	4280295.0	Roadway/Open Space	-	-	0.01
247	669119.0	4280295.0	Roadway/Open Space	-	-	0.01
248	669129.0	4280295.0	Roadway/Open Space	-	-	0.01
249	669139.0	4280295.0	Roadway/Open Space	-	-	0.01
250	669149.0	4280295.0	Roadway/Open Space	-	-	0.01
251	669159.0	4280295.0	Roadway/Open Space	-	-	0.01
252	669169.0	4280295.0	Roadway/Open Space	-	-	0.01

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
253	669179.0	4280295.0	Roadway/Open Space	-	-	0.01
254	669189.0	4280295.0	Roadway/Open Space	-	-	0.01
255	669199.0	4280295.0	Roadway/Open Space	-	-	0.01
256	669209.0	4280295.0	Roadway/Open Space	-	-	0.01
257	669219.0	4280295.0	Roadway/Open Space	-	-	0.01
258	669229.0	4280295.0	Roadway/Open Space	-	-	0.01
259	669239.0	4280295.0	Roadway/Open Space	-	-	0.01
260	669249.0	4280295.0	Roadway/Open Space	-	-	0.01
261	669259.0	4280295.0	Roadway/Open Space	-	-	0.01
262	669269.0	4280295.0	Roadway/Open Space	-	-	0.01
263	669279.0	4280295.0	Roadway/Open Space	-	-	0.01
264	668809.0	4280305.0	Roadway/Open Space	-	-	0.02
265	668819.0	4280305.0	Roadway/Open Space	-	-	0.02
266	668829.0	4280305.0	Roadway/Open Space	-	-	0.02
267	668839.0	4280305.0	Roadway/Open Space	-	-	0.02
268	668849.0	4280305.0	Roadway/Open Space	-	-	0.02
269	668859.0	4280305.0	Roadway/Open Space	-	-	0.02
270	668869.0	4280305.0	Roadway/Open Space	-	-	0.02
271	668879.0	4280305.0	Roadway/Open Space	-	-	0.02
272	668889.0	4280305.0	Roadway/Open Space	-	-	0.02
273	668899.0	4280305.0	Roadway/Open Space	-	-	0.02
274	668909.0	4280305.0	Roadway/Open Space	-	-	0.02
275	668919.0	4280305.0	Roadway/Open Space	-	-	0.02
276	668929.0	4280305.0	Roadway/Open Space	-	-	0.02
277	668939.0	4280305.0	Roadway/Open Space	-	-	0.02
278	668949.0	4280305.0	Roadway/Open Space	-	-	0.02
279	668959.0	4280305.0	Roadway/Open Space	-	-	0.02
280	668969.0	4280305.0	Roadway/Open Space	-	-	0.02
281	668979.0	4280305.0	Roadway/Open Space	-	-	0.02
282	668989.0	4280305.0	Roadway/Open Space	-	-	0.02
283	668999.0	4280305.0	Roadway/Open Space	-	-	0.02
284	669009.0	4280305.0	Roadway/Open Space	-	-	0.02
285	669019.0	4280305.0	Roadway/Open Space	-	-	0.02
286	669029.0	4280305.0	Roadway/Open Space	-	-	0.02
287	669039.0	4280305.0	Roadway/Open Space	-	-	0.01
288	669049.0	4280305.0	Roadway/Open Space	-	-	0.01
289	669059.0	4280305.0	Roadway/Open Space	-	-	0.01
290	669069.0	4280305.0	Roadway/Open Space	-	-	0.01
291	669079.0	4280305.0	Roadway/Open Space	-	-	0.01
292	669089.0	4280305.0	Roadway/Open Space	-	-	0.01
293	669099.0	4280305.0	Roadway/Open Space	-	-	0.01
294	669109.0	4280305.0	Roadway/Open Space	-	-	0.01
295	669119.0	4280305.0	Roadway/Open Space	-	-	0.01
296	669129.0	4280305.0	Roadway/Open Space	-	-	0.01
297	669139.0	4280305.0	Roadway/Open Space	-	-	0.01
298	669149.0	4280305.0	Roadway/Open Space	-	-	0.01
299	669159.0	4280305.0	Roadway/Open Space	-	-	0.01
300	669169.0	4280305.0	Roadway/Open Space	-	-	0.01
301	669179.0	4280305.0	Roadway/Open Space	-	-	0.01
302	669189.0	4280305.0	Roadway/Open Space	-	-	0.01
303	669199.0	4280305.0	Roadway/Open Space	-	-	0.01
304	669209.0	4280305.0	Roadway/Open Space	-	-	0.01
305	669219.0	4280305.0	Roadway/Open Space	-	-	0.01
306	669229.0	4280305.0	Roadway/Open Space	-	-	0.01
307	669239.0	4280305.0	Roadway/Open Space	-	-	0.01
308	669249.0	4280305.0	Roadway/Open Space	-	-	0.01
309	669259.0	4280305.0	Roadway/Open Space	-	-	0.01
310	669269.0	4280305.0	Roadway/Open Space	-	-	0.01
311	669279.0	4280305.0	Roadway/Open Space	-	-	0.01
312	669289.0	4280305.0	Roadway/Open Space	-	-	0.01
313	668789.0	4280315.0	Roadway/Open Space	-	-	0.02
314	668799.0	4280315.0	Roadway/Open Space	-	-	0.02
315	668809.0	4280315.0	Roadway/Open Space	-	-	0.02
316	668819.0	4280315.0	Roadway/Open Space	-	-	0.02
317	668829.0	4280315.0	Roadway/Open Space	-	-	0.02
318	668839.0	4280315.0	Roadway/Open Space	-	-	0.02
319	668849.0	4280315.0	Roadway/Open Space	-	-	0.02
320	668859.0	4280315.0	Roadway/Open Space	-	-	0.02
321	668869.0	4280315.0	Roadway/Open Space	-	-	0.02
322	668879.0	4280315.0	Roadway/Open Space	-	-	0.02
323	668889.0	4280315.0	Roadway/Open Space	-	-	0.02
324	668899.0	4280315.0	Roadway/Open Space	-	-	0.02
325	668909.0	4280315.0	Roadway/Open Space	-	-	0.02
326	668919.0	4280315.0	Roadway/Open Space	-	-	0.02
327	668929.0	4280315.0	Roadway/Open Space	-	-	0.02
328	668939.0	4280315.0	Roadway/Open Space	-	-	0.02
329	668949.0	4280315.0	Roadway/Open Space	-	-	0.02
330	668959.0	4280315.0	Roadway/Open Space	-	-	0.02
331	668969.0	4280315.0	Roadway/Open Space	-	-	0.02
332	668979.0	4280315.0	Roadway/Open Space	-	-	0.02
333	668989.0	4280315.0	Roadway/Open Space	-	-	0.02
334	668999.0	4280315.0	Roadway/Open Space	-	-	0.02
335	669009.0	4280315.0	Roadway/Open Space	-	-	0.02
336	669019.0	4280315.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
337	669029.0	4280315.0	Roadway/Open Space	-	-	0.02
338	669039.0	4280315.0	Roadway/Open Space	-	-	0.02
339	669049.0	4280315.0	Roadway/Open Space	-	-	0.02
340	669059.0	4280315.0	Roadway/Open Space	-	-	0.01
341	669069.0	4280315.0	Roadway/Open Space	-	-	0.01
342	669079.0	4280315.0	Roadway/Open Space	-	-	0.01
343	669089.0	4280315.0	Roadway/Open Space	-	-	0.01
344	669099.0	4280315.0	Roadway/Open Space	-	-	0.01
345	669109.0	4280315.0	Roadway/Open Space	-	-	0.01
346	669119.0	4280315.0	Roadway/Open Space	-	-	0.01
347	669129.0	4280315.0	Roadway/Open Space	-	-	0.01
348	669139.0	4280315.0	Roadway/Open Space	-	-	0.01
349	669149.0	4280315.0	Roadway/Open Space	-	-	0.01
350	669159.0	4280315.0	Roadway/Open Space	-	-	0.01
351	669169.0	4280315.0	Roadway/Open Space	-	-	0.01
352	669179.0	4280315.0	Roadway/Open Space	-	-	0.01
353	669189.0	4280315.0	Roadway/Open Space	-	-	0.01
354	669199.0	4280315.0	Roadway/Open Space	-	-	0.01
355	669209.0	4280315.0	Roadway/Open Space	-	-	0.01
356	669219.0	4280315.0	Roadway/Open Space	-	-	0.01
357	669229.0	4280315.0	Roadway/Open Space	-	-	0.01
358	669239.0	4280315.0	Roadway/Open Space	-	-	0.01
359	669249.0	4280315.0	Roadway/Open Space	-	-	0.01
360	669259.0	4280315.0	Roadway/Open Space	-	-	0.01
361	669269.0	4280315.0	Roadway/Open Space	-	-	0.01
362	669279.0	4280315.0	Roadway/Open Space	-	-	0.01
363	669289.0	4280315.0	Roadway/Open Space	-	-	0.01
364	669299.0	4280315.0	Roadway/Open Space	-	-	0.01
365	668779.0	4280325.0	Roadway/Open Space	-	-	0.02
366	668789.0	4280325.0	Roadway/Open Space	-	-	0.02
367	668799.0	4280325.0	Roadway/Open Space	-	-	0.02
368	668809.0	4280325.0	Roadway/Open Space	-	-	0.02
369	668819.0	4280325.0	Roadway/Open Space	-	-	0.02
370	668829.0	4280325.0	Worker	0.02	0.001	0.02
371	668839.0	4280325.0	Worker	0.02	0.001	0.02
372	668849.0	4280325.0	Worker	0.02	0.001	0.02
373	668859.0	4280325.0	Roadway/Open Space	-	-	0.02
374	668869.0	4280325.0	Roadway/Open Space	-	-	0.02
375	668879.0	4280325.0	Roadway/Open Space	-	-	0.02
376	668889.0	4280325.0	Roadway/Open Space	-	-	0.02
377	668899.0	4280325.0	Roadway/Open Space	-	-	0.02
378	668909.0	4280325.0	Roadway/Open Space	-	-	0.02
379	668919.0	4280325.0	Roadway/Open Space	-	-	0.02
380	668929.0	4280325.0	Roadway/Open Space	-	-	0.02
381	668939.0	4280325.0	Roadway/Open Space	-	-	0.02
382	668949.0	4280325.0	Roadway/Open Space	-	-	0.02
383	668959.0	4280325.0	Roadway/Open Space	-	-	0.02
384	668969.0	4280325.0	Roadway/Open Space	-	-	0.02
385	668979.0	4280325.0	Roadway/Open Space	-	-	0.02
386	668989.0	4280325.0	Roadway/Open Space	-	-	0.02
387	668999.0	4280325.0	Roadway/Open Space	-	-	0.02
388	669009.0	4280325.0	Roadway/Open Space	-	-	0.02
389	669019.0	4280325.0	Roadway/Open Space	-	-	0.02
390	669029.0	4280325.0	Roadway/Open Space	-	-	0.02
391	669039.0	4280325.0	Roadway/Open Space	-	-	0.02
392	669049.0	4280325.0	Roadway/Open Space	-	-	0.02
393	669059.0	4280325.0	Roadway/Open Space	-	-	0.02
394	669069.0	4280325.0	Roadway/Open Space	-	-	0.02
395	669079.0	4280325.0	Roadway/Open Space	-	-	0.01
396	669089.0	4280325.0	Roadway/Open Space	-	-	0.01
397	669099.0	4280325.0	Roadway/Open Space	-	-	0.01
398	669109.0	4280325.0	Roadway/Open Space	-	-	0.01
399	669119.0	4280325.0	Roadway/Open Space	-	-	0.01
400	669129.0	4280325.0	Roadway/Open Space	-	-	0.01
401	669139.0	4280325.0	Roadway/Open Space	-	-	0.01
402	669149.0	4280325.0	Roadway/Open Space	-	-	0.01
403	669159.0	4280325.0	Roadway/Open Space	-	-	0.01
404	669169.0	4280325.0	Roadway/Open Space	-	-	0.01
405	669179.0	4280325.0	Roadway/Open Space	-	-	0.01
406	669189.0	4280325.0	Roadway/Open Space	-	-	0.01
407	669199.0	4280325.0	Roadway/Open Space	-	-	0.01
408	669209.0	4280325.0	Roadway/Open Space	-	-	0.01
409	669219.0	4280325.0	Roadway/Open Space	-	-	0.01
410	669229.0	4280325.0	Roadway/Open Space	-	-	0.01
411	669239.0	4280325.0	Roadway/Open Space	-	-	0.01
412	669249.0	4280325.0	Roadway/Open Space	-	-	0.01
413	669259.0	4280325.0	Roadway/Open Space	-	-	0.01
414	669269.0	4280325.0	Roadway/Open Space	-	-	0.01
415	669279.0	4280325.0	Roadway/Open Space	-	-	0.01
416	669289.0	4280325.0	Roadway/Open Space	-	-	0.01
417	669299.0	4280325.0	Roadway/Open Space	-	-	0.01
418	669309.0	4280325.0	Roadway/Open Space	-	-	0.01
419	669319.0	4280325.0	Roadway/Open Space	-	-	0.01
420	668769.0	4280335.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
421	668779.0	4280335.0	Roadway/Open Space	-	-	0.02
422	668789.0	4280335.0	Roadway/Open Space	-	-	0.02
423	668799.0	4280335.0	Roadway/Open Space	-	-	0.02
424	668809.0	4280335.0	Worker	0.02	0.001	0.02
425	668819.0	4280335.0	Worker	0.02	0.001	0.02
426	668829.0	4280335.0	Worker	0.02	0.001	0.02
427	668839.0	4280335.0	Worker	0.02	0.001	0.02
428	668849.0	4280335.0	Worker	0.02	0.001	0.02
429	668859.0	4280335.0	Worker	0.02	0.001	0.02
430	668869.0	4280335.0	Worker	0.02	0.001	0.02
431	668879.0	4280335.0	Roadway/Open Space	-	-	0.02
432	668889.0	4280335.0	Roadway/Open Space	-	-	0.02
433	668899.0	4280335.0	Roadway/Open Space	-	-	0.02
434	668909.0	4280335.0	Roadway/Open Space	-	-	0.02
435	668919.0	4280335.0	Roadway/Open Space	-	-	0.02
436	668929.0	4280335.0	Roadway/Open Space	-	-	0.02
437	668939.0	4280335.0	Roadway/Open Space	-	-	0.02
438	668949.0	4280335.0	Roadway/Open Space	-	-	0.02
439	668959.0	4280335.0	Roadway/Open Space	-	-	0.02
440	668969.0	4280335.0	Roadway/Open Space	-	-	0.02
441	668979.0	4280335.0	Roadway/Open Space	-	-	0.02
442	668989.0	4280335.0	Roadway/Open Space	-	-	0.02
443	668999.0	4280335.0	Roadway/Open Space	-	-	0.02
444	669009.0	4280335.0	Roadway/Open Space	-	-	0.02
445	669019.0	4280335.0	Roadway/Open Space	-	-	0.02
446	669029.0	4280335.0	Roadway/Open Space	-	-	0.02
447	669039.0	4280335.0	Roadway/Open Space	-	-	0.02
448	669049.0	4280335.0	Roadway/Open Space	-	-	0.02
449	669059.0	4280335.0	Roadway/Open Space	-	-	0.02
450	669069.0	4280335.0	Roadway/Open Space	-	-	0.02
451	669079.0	4280335.0	Roadway/Open Space	-	-	0.02
452	669089.0	4280335.0	Roadway/Open Space	-	-	0.02
453	669099.0	4280335.0	Roadway/Open Space	-	-	0.01
454	669109.0	4280335.0	Roadway/Open Space	-	-	0.01
455	669119.0	4280335.0	Roadway/Open Space	-	-	0.01
456	669129.0	4280335.0	Roadway/Open Space	-	-	0.01
457	669139.0	4280335.0	Roadway/Open Space	-	-	0.01
458	669149.0	4280335.0	Roadway/Open Space	-	-	0.01
459	669159.0	4280335.0	Roadway/Open Space	-	-	0.01
460	669169.0	4280335.0	Roadway/Open Space	-	-	0.01
461	669179.0	4280335.0	Roadway/Open Space	-	-	0.01
462	669189.0	4280335.0	Roadway/Open Space	-	-	0.01
463	669199.0	4280335.0	Roadway/Open Space	-	-	0.01
464	669209.0	4280335.0	Roadway/Open Space	-	-	0.01
465	669219.0	4280335.0	Roadway/Open Space	-	-	0.01
466	669229.0	4280335.0	Roadway/Open Space	-	-	0.01
467	669239.0	4280335.0	Roadway/Open Space	-	-	0.01
468	669249.0	4280335.0	Roadway/Open Space	-	-	0.01
469	669259.0	4280335.0	Roadway/Open Space	-	-	0.01
470	669269.0	4280335.0	Roadway/Open Space	-	-	0.01
471	669279.0	4280335.0	Roadway/Open Space	-	-	0.01
472	669289.0	4280335.0	Roadway/Open Space	-	-	0.01
473	669299.0	4280335.0	Roadway/Open Space	-	-	0.01
474	669309.0	4280335.0	Roadway/Open Space	-	-	0.02
475	669319.0	4280335.0	Roadway/Open Space	-	-	0.02
476	669329.0	4280335.0	Roadway/Open Space	-	-	0.02
477	668759.0	4280345.0	Roadway/Open Space	-	-	0.02
478	668769.0	4280345.0	Roadway/Open Space	-	-	0.02
479	668779.0	4280345.0	Roadway/Open Space	-	-	0.02
480	668789.0	4280345.0	Roadway/Open Space	-	-	0.02
481	668799.0	4280345.0	Roadway/Open Space	-	-	0.02
482	668809.0	4280345.0	Worker	0.02	0.001	0.02
483	668819.0	4280345.0	Worker	0.02	0.001	0.02
484	668829.0	4280345.0	Worker	0.02	0.001	0.02
485	668839.0	4280345.0	Worker	0.02	0.001	0.02
486	668849.0	4280345.0	Worker	0.02	0.001	0.02
487	668859.0	4280345.0	Worker	0.02	0.001	0.02
488	668869.0	4280345.0	Worker	0.02	0.001	0.02
489	668879.0	4280345.0	Worker	0.02	0.001	0.02
490	668889.0	4280345.0	Worker	0.02	0.001	0.02
491	668899.0	4280345.0	Roadway/Open Space	-	-	0.02
492	668909.0	4280345.0	Roadway/Open Space	-	-	0.02
493	668919.0	4280345.0	Roadway/Open Space	-	-	0.02
494	668929.0	4280345.0	Roadway/Open Space	-	-	0.02
495	668939.0	4280345.0	Roadway/Open Space	-	-	0.02
496	668949.0	4280345.0	Roadway/Open Space	-	-	0.02
497	668959.0	4280345.0	Roadway/Open Space	-	-	0.02
498	668969.0	4280345.0	Roadway/Open Space	-	-	0.02
499	668979.0	4280345.0	Roadway/Open Space	-	-	0.02
500	668989.0	4280345.0	Roadway/Open Space	-	-	0.02
501	668999.0	4280345.0	Roadway/Open Space	-	-	0.02
502	669009.0	4280345.0	Roadway/Open Space	-	-	0.02
503	669019.0	4280345.0	Roadway/Open Space	-	-	0.02
504	669029.0	4280345.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
505	669039.0	4280345.0	Roadway/Open Space	-	-	0.02
506	669049.0	4280345.0	Roadway/Open Space	-	-	0.02
507	669059.0	4280345.0	Roadway/Open Space	-	-	0.02
508	669069.0	4280345.0	Roadway/Open Space	-	-	0.02
509	669079.0	4280345.0	Roadway/Open Space	-	-	0.02
510	669089.0	4280345.0	Roadway/Open Space	-	-	0.02
511	669099.0	4280345.0	Roadway/Open Space	-	-	0.02
512	669109.0	4280345.0	Roadway/Open Space	-	-	0.02
513	669119.0	4280345.0	Roadway/Open Space	-	-	0.01
514	669129.0	4280345.0	Roadway/Open Space	-	-	0.01
515	669139.0	4280345.0	Roadway/Open Space	-	-	0.01
516	669149.0	4280345.0	Roadway/Open Space	-	-	0.01
517	669159.0	4280345.0	Roadway/Open Space	-	-	0.01
518	669169.0	4280345.0	Roadway/Open Space	-	-	0.01
519	669179.0	4280345.0	Roadway/Open Space	-	-	0.01
520	669189.0	4280345.0	Roadway/Open Space	-	-	0.01
521	669199.0	4280345.0	Roadway/Open Space	-	-	0.01
522	669209.0	4280345.0	Roadway/Open Space	-	-	0.01
523	669219.0	4280345.0	Roadway/Open Space	-	-	0.01
524	669229.0	4280345.0	Roadway/Open Space	-	-	0.01
525	669239.0	4280345.0	Roadway/Open Space	-	-	0.01
526	669249.0	4280345.0	Roadway/Open Space	-	-	0.01
527	669259.0	4280345.0	Roadway/Open Space	-	-	0.01
528	669269.0	4280345.0	Roadway/Open Space	-	-	0.01
529	669279.0	4280345.0	Roadway/Open Space	-	-	0.01
530	669289.0	4280345.0	Roadway/Open Space	-	-	0.02
531	669299.0	4280345.0	Roadway/Open Space	-	-	0.02
532	669309.0	4280345.0	Roadway/Open Space	-	-	0.02
533	669319.0	4280345.0	Roadway/Open Space	-	-	0.02
534	669329.0	4280345.0	Roadway/Open Space	-	-	0.02
535	669339.0	4280345.0	Roadway/Open Space	-	-	0.02
536	668749.0	4280355.0	Roadway/Open Space	-	-	0.02
537	668759.0	4280355.0	Roadway/Open Space	-	-	0.02
538	668769.0	4280355.0	Roadway/Open Space	-	-	0.02
539	668779.0	4280355.0	Roadway/Open Space	-	-	0.02
540	668789.0	4280355.0	Roadway/Open Space	-	-	0.02
541	668799.0	4280355.0	Roadway/Open Space	-	-	0.02
542	668809.0	4280355.0	Worker	0.02	0.001	0.02
543	668819.0	4280355.0	Worker	0.02	0.001	0.02
544	668829.0	4280355.0	Worker	0.02	0.001	0.02
545	668839.0	4280355.0	Worker	0.02	0.001	0.02
546	668849.0	4280355.0	Worker	0.02	0.001	0.02
547	668859.0	4280355.0	Worker	0.02	0.001	0.02
548	668869.0	4280355.0	Worker	0.02	0.001	0.02
549	668879.0	4280355.0	Worker	0.02	0.001	0.02
550	668889.0	4280355.0	Worker	0.02	0.001	0.02
551	668899.0	4280355.0	Roadway/Open Space	-	-	0.02
552	668909.0	4280355.0	Roadway/Open Space	-	-	0.02
553	668919.0	4280355.0	Roadway/Open Space	-	-	0.02
554	668929.0	4280355.0	Roadway/Open Space	-	-	0.02
555	668939.0	4280355.0	Roadway/Open Space	-	-	0.02
556	668949.0	4280355.0	Roadway/Open Space	-	-	0.02
557	668959.0	4280355.0	Roadway/Open Space	-	-	0.02
558	668969.0	4280355.0	Roadway/Open Space	-	-	0.02
559	668979.0	4280355.0	Roadway/Open Space	-	-	0.02
560	668989.0	4280355.0	Roadway/Open Space	-	-	0.02
561	668999.0	4280355.0	Roadway/Open Space	-	-	0.02
562	669009.0	4280355.0	Roadway/Open Space	-	-	0.02
563	669019.0	4280355.0	Roadway/Open Space	-	-	0.02
564	669029.0	4280355.0	Roadway/Open Space	-	-	0.02
565	669039.0	4280355.0	Roadway/Open Space	-	-	0.02
566	669049.0	4280355.0	Roadway/Open Space	-	-	0.02
567	669059.0	4280355.0	Roadway/Open Space	-	-	0.02
568	669069.0	4280355.0	Roadway/Open Space	-	-	0.02
569	669079.0	4280355.0	Roadway/Open Space	-	-	0.02
570	669089.0	4280355.0	Roadway/Open Space	-	-	0.02
571	669099.0	4280355.0	Roadway/Open Space	-	-	0.02
572	669109.0	4280355.0	Roadway/Open Space	-	-	0.02
573	669119.0	4280355.0	Roadway/Open Space	-	-	0.02
574	669129.0	4280355.0	Roadway/Open Space	-	-	0.02
575	669139.0	4280355.0	Roadway/Open Space	-	-	0.02
576	669149.0	4280355.0	Roadway/Open Space	-	-	0.02
577	669159.0	4280355.0	Roadway/Open Space	-	-	0.02
578	669169.0	4280355.0	Roadway/Open Space	-	-	0.02
579	669179.0	4280355.0	Roadway/Open Space	-	-	0.01
580	669189.0	4280355.0	Roadway/Open Space	-	-	0.01
581	669199.0	4280355.0	Roadway/Open Space	-	-	0.01
582	669209.0	4280355.0	Roadway/Open Space	-	-	0.02
583	669219.0	4280355.0	Roadway/Open Space	-	-	0.01
584	669229.0	4280355.0	Roadway/Open Space	-	-	0.01
585	669239.0	4280355.0	Roadway/Open Space	-	-	0.01
586	669249.0	4280355.0	Roadway/Open Space	-	-	0.01
587	669259.0	4280355.0	Roadway/Open Space	-	-	0.01
588	669269.0	4280355.0	Roadway/Open Space	-	-	0.01

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
589	669279.0	4280355.0	Roadway/Open Space	-	-	0.02
590	669289.0	4280355.0	Roadway/Open Space	-	-	0.02
591	669299.0	4280355.0	Roadway/Open Space	-	-	0.02
592	669309.0	4280355.0	Roadway/Open Space	-	-	0.02
593	669319.0	4280355.0	Roadway/Open Space	-	-	0.02
594	669329.0	4280355.0	Roadway/Open Space	-	-	0.02
595	669339.0	4280355.0	Roadway/Open Space	-	-	0.02
596	669349.0	4280355.0	Roadway/Open Space	-	-	0.02
597	668739.0	4280365.0	Roadway/Open Space	-	-	0.02
598	668749.0	4280365.0	Roadway/Open Space	-	-	0.02
599	668759.0	4280365.0	Roadway/Open Space	-	-	0.02
600	668769.0	4280365.0	Roadway/Open Space	-	-	0.02
601	668779.0	4280365.0	Roadway/Open Space	-	-	0.02
602	668789.0	4280365.0	Roadway/Open Space	-	-	0.02
603	668799.0	4280365.0	Roadway/Open Space	-	-	0.02
604	668809.0	4280365.0	Worker	0.02	0.001	0.02
605	668819.0	4280365.0	Worker	0.02	0.001	0.02
606	668829.0	4280365.0	Worker	0.02	0.001	0.02
607	668839.0	4280365.0	Worker	0.02	0.001	0.02
608	668849.0	4280365.0	Worker	0.02	0.001	0.02
609	668859.0	4280365.0	Worker	0.02	0.001	0.02
610	668869.0	4280365.0	Worker	0.02	0.001	0.02
611	668879.0	4280365.0	Worker	0.02	0.001	0.02
612	668889.0	4280365.0	Worker	0.02	0.001	0.02
613	668899.0	4280365.0	Worker	0.02	0.001	0.02
614	668909.0	4280365.0	Roadway/Open Space	-	-	0.02
615	668919.0	4280365.0	Roadway/Open Space	-	-	0.02
616	668929.0	4280365.0	Roadway/Open Space	-	-	0.02
617	668939.0	4280365.0	Roadway/Open Space	-	-	0.02
618	668949.0	4280365.0	Roadway/Open Space	-	-	0.02
619	668959.0	4280365.0	Roadway/Open Space	-	-	0.02
620	668969.0	4280365.0	Roadway/Open Space	-	-	0.02
621	668979.0	4280365.0	Roadway/Open Space	-	-	0.02
622	668989.0	4280365.0	Roadway/Open Space	-	-	0.02
623	668999.0	4280365.0	Roadway/Open Space	-	-	0.02
624	669009.0	4280365.0	Roadway/Open Space	-	-	0.02
625	669019.0	4280365.0	Roadway/Open Space	-	-	0.02
626	669029.0	4280365.0	Roadway/Open Space	-	-	0.02
627	669039.0	4280365.0	Roadway/Open Space	-	-	0.02
628	669049.0	4280365.0	Roadway/Open Space	-	-	0.02
629	669059.0	4280365.0	Roadway/Open Space	-	-	0.02
630	669069.0	4280365.0	Roadway/Open Space	-	-	0.02
631	669079.0	4280365.0	Roadway/Open Space	-	-	0.02
632	669089.0	4280365.0	Roadway/Open Space	-	-	0.02
633	669099.0	4280365.0	Roadway/Open Space	-	-	0.02
634	669109.0	4280365.0	Roadway/Open Space	-	-	0.02
635	669119.0	4280365.0	Roadway/Open Space	-	-	0.02
636	669129.0	4280365.0	Roadway/Open Space	-	-	0.02
637	669139.0	4280365.0	Roadway/Open Space	-	-	0.02
638	669149.0	4280365.0	Roadway/Open Space	-	-	0.02
639	669159.0	4280365.0	Roadway/Open Space	-	-	0.02
640	669169.0	4280365.0	Roadway/Open Space	-	-	0.02
641	669179.0	4280365.0	Roadway/Open Space	-	-	0.02
642	669189.0	4280365.0	Roadway/Open Space	-	-	0.02
643	669199.0	4280365.0	Roadway/Open Space	-	-	0.02
644	669209.0	4280365.0	Roadway/Open Space	-	-	0.02
645	669219.0	4280365.0	Roadway/Open Space	-	-	0.02
646	669229.0	4280365.0	Roadway/Open Space	-	-	0.02
647	669239.0	4280365.0	Roadway/Open Space	-	-	0.01
648	669249.0	4280365.0	Roadway/Open Space	-	-	0.01
649	669259.0	4280365.0	Roadway/Open Space	-	-	0.02
650	669269.0	4280365.0	Roadway/Open Space	-	-	0.02
651	669279.0	4280365.0	Roadway/Open Space	-	-	0.02
652	669289.0	4280365.0	Roadway/Open Space	-	-	0.02
653	669299.0	4280365.0	Roadway/Open Space	-	-	0.02
654	669309.0	4280365.0	Roadway/Open Space	-	-	0.02
655	669319.0	4280365.0	Roadway/Open Space	-	-	0.02
656	669329.0	4280365.0	Roadway/Open Space	-	-	0.02
657	669339.0	4280365.0	Roadway/Open Space	-	-	0.02
658	669349.0	4280365.0	Roadway/Open Space	-	-	0.02
659	669359.0	4280365.0	Roadway/Open Space	-	-	0.02
660	668739.0	4280375.0	Roadway/Open Space	-	-	0.02
661	668749.0	4280375.0	Roadway/Open Space	-	-	0.02
662	668759.0	4280375.0	Roadway/Open Space	-	-	0.02
663	668769.0	4280375.0	Roadway/Open Space	-	-	0.02
664	668779.0	4280375.0	Roadway/Open Space	-	-	0.02
665	668789.0	4280375.0	Roadway/Open Space	-	-	0.02
666	668799.0	4280375.0	Roadway/Open Space	-	-	0.02
667	668809.0	4280375.0	Roadway/Open Space	-	-	0.02
668	668819.0	4280375.0	Worker	0.02	0.001	0.02
669	668829.0	4280375.0	Worker	0.02	0.001	0.02
670	668839.0	4280375.0	Worker	0.02	0.001	0.02
671	668849.0	4280375.0	Worker	0.02	0.001	0.02
672	668859.0	4280375.0	Worker	0.02	0.001	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
673	668869.0	4280375.0	Worker	0.02	0.001	0.02
674	668879.0	4280375.0	Worker	0.02	0.001	0.02
675	668889.0	4280375.0	Worker	0.02	0.001	0.02
676	668899.0	4280375.0	Worker	0.02	0.001	0.02
677	668909.0	4280375.0	Worker	0.02	0.001	0.02
678	668919.0	4280375.0	Roadway/Open Space	-	-	0.02
679	668929.0	4280375.0	Roadway/Open Space	-	-	0.02
680	668939.0	4280375.0	Roadway/Open Space	-	-	0.02
681	668949.0	4280375.0	Roadway/Open Space	-	-	0.02
682	668959.0	4280375.0	Roadway/Open Space	-	-	0.02
683	668969.0	4280375.0	Roadway/Open Space	-	-	0.02
684	668979.0	4280375.0	Roadway/Open Space	-	-	0.02
685	668989.0	4280375.0	Roadway/Open Space	-	-	0.02
686	668999.0	4280375.0	Roadway/Open Space	-	-	0.02
687	669009.0	4280375.0	Roadway/Open Space	-	-	0.02
688	669019.0	4280375.0	Roadway/Open Space	-	-	0.02
689	669029.0	4280375.0	Roadway/Open Space	-	-	0.02
690	669039.0	4280375.0	Roadway/Open Space	-	-	0.02
691	669049.0	4280375.0	Roadway/Open Space	-	-	0.02
692	669059.0	4280375.0	Roadway/Open Space	-	-	0.02
693	669069.0	4280375.0	Roadway/Open Space	-	-	0.02
694	669079.0	4280375.0	Roadway/Open Space	-	-	0.02
695	669089.0	4280375.0	Roadway/Open Space	-	-	0.02
696	669099.0	4280375.0	Roadway/Open Space	-	-	0.02
697	669109.0	4280375.0	Roadway/Open Space	-	-	0.02
698	669119.0	4280375.0	Roadway/Open Space	-	-	0.02
699	669129.0	4280375.0	Roadway/Open Space	-	-	0.02
700	669139.0	4280375.0	Roadway/Open Space	-	-	0.02
701	669149.0	4280375.0	Roadway/Open Space	-	-	0.02
702	669159.0	4280375.0	Roadway/Open Space	-	-	0.02
703	669169.0	4280375.0	Roadway/Open Space	-	-	0.02
704	669179.0	4280375.0	Roadway/Open Space	-	-	0.02
705	669189.0	4280375.0	Roadway/Open Space	-	-	0.02
706	669199.0	4280375.0	Roadway/Open Space	-	-	0.02
707	669209.0	4280375.0	Roadway/Open Space	-	-	0.02
708	669219.0	4280375.0	Roadway/Open Space	-	-	0.02
709	669229.0	4280375.0	Roadway/Open Space	-	-	0.02
710	669239.0	4280375.0	Roadway/Open Space	-	-	0.02
711	669249.0	4280375.0	Roadway/Open Space	-	-	0.02
712	669259.0	4280375.0	Roadway/Open Space	-	-	0.02
713	669269.0	4280375.0	Roadway/Open Space	-	-	0.02
714	669279.0	4280375.0	Roadway/Open Space	-	-	0.02
715	669289.0	4280375.0	Roadway/Open Space	-	-	0.02
716	669299.0	4280375.0	Roadway/Open Space	-	-	0.02
717	669309.0	4280375.0	Roadway/Open Space	-	-	0.02
718	669319.0	4280375.0	Roadway/Open Space	-	-	0.02
719	669329.0	4280375.0	Roadway/Open Space	-	-	0.02
720	669339.0	4280375.0	Roadway/Open Space	-	-	0.02
721	669349.0	4280375.0	Roadway/Open Space	-	-	0.02
722	669359.0	4280375.0	Roadway/Open Space	-	-	0.02
723	669369.0	4280375.0	Roadway/Open Space	-	-	0.02
724	668729.0	4280385.0	Roadway/Open Space	-	-	0.02
725	668739.0	4280385.0	Roadway/Open Space	-	-	0.02
726	668749.0	4280385.0	Roadway/Open Space	-	-	0.02
727	668759.0	4280385.0	Roadway/Open Space	-	-	0.02
728	668769.0	4280385.0	Roadway/Open Space	-	-	0.02
729	668779.0	4280385.0	Roadway/Open Space	-	-	0.02
730	668789.0	4280385.0	Roadway/Open Space	-	-	0.02
731	668799.0	4280385.0	Roadway/Open Space	-	-	0.02
732	668809.0	4280385.0	Roadway/Open Space	-	-	0.02
733	668819.0	4280385.0	Roadway/Open Space	-	-	0.02
734	668829.0	4280385.0	Roadway/Open Space	-	-	0.02
735	668839.0	4280385.0	Roadway/Open Space	-	-	0.02
736	668849.0	4280385.0	Worker	0.02	0.001	0.02
737	668859.0	4280385.0	Worker	0.02	0.001	0.02
738	668869.0	4280385.0	Worker	0.02	0.001	0.02
739	668879.0	4280385.0	Worker	0.02	0.001	0.02
740	668889.0	4280385.0	Worker	0.02	0.001	0.02
741	668899.0	4280385.0	Worker	0.02	0.001	0.02
742	668909.0	4280385.0	Worker	0.02	0.001	0.02
743	668919.0	4280385.0	Roadway/Open Space	-	-	0.02
744	668929.0	4280385.0	Roadway/Open Space	-	-	0.02
745	668939.0	4280385.0	Roadway/Open Space	-	-	0.02
746	668949.0	4280385.0	Roadway/Open Space	-	-	0.02
747	668959.0	4280385.0	Roadway/Open Space	-	-	0.02
748	668969.0	4280385.0	Roadway/Open Space	-	-	0.02
749	668979.0	4280385.0	Roadway/Open Space	-	-	0.02
750	668989.0	4280385.0	Roadway/Open Space	-	-	0.02
751	668999.0	4280385.0	Roadway/Open Space	-	-	0.02
752	669009.0	4280385.0	Roadway/Open Space	-	-	0.02
753	669019.0	4280385.0	Roadway/Open Space	-	-	0.02
754	669029.0	4280385.0	Roadway/Open Space	-	-	0.02
755	669039.0	4280385.0	Roadway/Open Space	-	-	0.02
756	669049.0	4280385.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
757	669059.0	4280385.0	Roadway/Open Space	-	-	0.02
758	669069.0	4280385.0	Roadway/Open Space	-	-	0.02
759	669079.0	4280385.0	Roadway/Open Space	-	-	0.02
760	669089.0	4280385.0	Roadway/Open Space	-	-	0.02
761	669099.0	4280385.0	Roadway/Open Space	-	-	0.02
762	669109.0	4280385.0	Roadway/Open Space	-	-	0.02
763	669119.0	4280385.0	Roadway/Open Space	-	-	0.02
764	669129.0	4280385.0	Roadway/Open Space	-	-	0.02
765	669139.0	4280385.0	Roadway/Open Space	-	-	0.02
766	669149.0	4280385.0	Roadway/Open Space	-	-	0.02
767	669159.0	4280385.0	Roadway/Open Space	-	-	0.02
768	669169.0	4280385.0	Roadway/Open Space	-	-	0.02
769	669179.0	4280385.0	Roadway/Open Space	-	-	0.02
770	669189.0	4280385.0	Roadway/Open Space	-	-	0.02
771	669199.0	4280385.0	Roadway/Open Space	-	-	0.02
772	669209.0	4280385.0	Roadway/Open Space	-	-	0.02
773	669219.0	4280385.0	Roadway/Open Space	-	-	0.02
774	669229.0	4280385.0	Roadway/Open Space	-	-	0.02
775	669239.0	4280385.0	Roadway/Open Space	-	-	0.02
776	669249.0	4280385.0	Roadway/Open Space	-	-	0.02
777	669259.0	4280385.0	Roadway/Open Space	-	-	0.02
778	669269.0	4280385.0	Roadway/Open Space	-	-	0.02
779	669279.0	4280385.0	Roadway/Open Space	-	-	0.02
780	669289.0	4280385.0	Roadway/Open Space	-	-	0.02
781	669299.0	4280385.0	Roadway/Open Space	-	-	0.02
782	669309.0	4280385.0	Roadway/Open Space	-	-	0.02
783	669319.0	4280385.0	Roadway/Open Space	-	-	0.02
784	669329.0	4280385.0	Roadway/Open Space	-	-	0.02
785	669339.0	4280385.0	Roadway/Open Space	-	-	0.02
786	669349.0	4280385.0	Roadway/Open Space	-	-	0.02
787	669359.0	4280385.0	Roadway/Open Space	-	-	0.02
788	669369.0	4280385.0	Roadway/Open Space	-	-	0.02
789	669379.0	4280385.0	Roadway/Open Space	-	-	0.02
790	668719.0	4280395.0	Roadway/Open Space	-	-	0.02
791	668729.0	4280395.0	Roadway/Open Space	-	-	0.02
792	668739.0	4280395.0	Roadway/Open Space	-	-	0.02
793	668749.0	4280395.0	Roadway/Open Space	-	-	0.02
794	668759.0	4280395.0	Roadway/Open Space	-	-	0.02
795	668769.0	4280395.0	Roadway/Open Space	-	-	0.02
796	668779.0	4280395.0	Roadway/Open Space	-	-	0.02
797	668789.0	4280395.0	Roadway/Open Space	-	-	0.02
798	668799.0	4280395.0	Roadway/Open Space	-	-	0.02
799	668809.0	4280395.0	Roadway/Open Space	-	-	0.02
800	668819.0	4280395.0	Roadway/Open Space	-	-	0.02
801	668829.0	4280395.0	Roadway/Open Space	-	-	0.02
802	668839.0	4280395.0	Roadway/Open Space	-	-	0.02
803	668849.0	4280395.0	Roadway/Open Space	-	-	0.02
804	668859.0	4280395.0	Roadway/Open Space	-	-	0.02
805	668869.0	4280395.0	Worker	0.02	0.001	0.02
806	668879.0	4280395.0	Worker	0.02	0.001	0.02
807	668889.0	4280395.0	Roadway/Open Space	-	-	0.02
808	668899.0	4280395.0	Roadway/Open Space	-	-	0.02
809	668909.0	4280395.0	Roadway/Open Space	-	-	0.02
810	668919.0	4280395.0	Roadway/Open Space	-	-	0.02
811	668929.0	4280395.0	Roadway/Open Space	-	-	0.02
812	668939.0	4280395.0	Roadway/Open Space	-	-	0.02
813	668949.0	4280395.0	Roadway/Open Space	-	-	0.02
814	668959.0	4280395.0	Roadway/Open Space	-	-	0.02
815	668969.0	4280395.0	Roadway/Open Space	-	-	0.02
816	668979.0	4280395.0	Roadway/Open Space	-	-	0.02
817	668989.0	4280395.0	Roadway/Open Space	-	-	0.02
818	668999.0	4280395.0	Roadway/Open Space	-	-	0.02
819	669009.0	4280395.0	Roadway/Open Space	-	-	0.02
820	669019.0	4280395.0	Roadway/Open Space	-	-	0.02
821	669029.0	4280395.0	Roadway/Open Space	-	-	0.02
822	669039.0	4280395.0	Roadway/Open Space	-	-	0.02
823	669049.0	4280395.0	Roadway/Open Space	-	-	0.02
824	669059.0	4280395.0	Roadway/Open Space	-	-	0.02
825	669069.0	4280395.0	Roadway/Open Space	-	-	0.02
826	669079.0	4280395.0	Roadway/Open Space	-	-	0.02
827	669089.0	4280395.0	Roadway/Open Space	-	-	0.02
828	669099.0	4280395.0	Roadway/Open Space	-	-	0.02
829	669109.0	4280395.0	Roadway/Open Space	-	-	0.02
830	669119.0	4280395.0	Roadway/Open Space	-	-	0.02
831	669129.0	4280395.0	Roadway/Open Space	-	-	0.02
832	669139.0	4280395.0	Roadway/Open Space	-	-	0.02
833	669149.0	4280395.0	Roadway/Open Space	-	-	0.02
834	669159.0	4280395.0	Roadway/Open Space	-	-	0.02
835	669169.0	4280395.0	Roadway/Open Space	-	-	0.02
836	669179.0	4280395.0	Roadway/Open Space	-	-	0.02
837	669189.0	4280395.0	Roadway/Open Space	-	-	0.02
838	669199.0	4280395.0	Roadway/Open Space	-	-	0.02
839	669209.0	4280395.0	Roadway/Open Space	-	-	0.02
840	669219.0	4280395.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
841	669229.0	4280395.0	Roadway/Open Space	-	-	0.02
842	669239.0	4280395.0	Roadway/Open Space	-	-	0.02
843	669249.0	4280395.0	Roadway/Open Space	-	-	0.02
844	669259.0	4280395.0	Roadway/Open Space	-	-	0.02
845	669269.0	4280395.0	Roadway/Open Space	-	-	0.02
846	669279.0	4280395.0	Roadway/Open Space	-	-	0.02
847	669289.0	4280395.0	Roadway/Open Space	-	-	0.02
848	669299.0	4280395.0	Roadway/Open Space	-	-	0.02
849	669309.0	4280395.0	Roadway/Open Space	-	-	0.02
850	669319.0	4280395.0	Roadway/Open Space	-	-	0.02
851	669329.0	4280395.0	Roadway/Open Space	-	-	0.02
852	669339.0	4280395.0	Roadway/Open Space	-	-	0.02
853	669349.0	4280395.0	Roadway/Open Space	-	-	0.02
854	669359.0	4280395.0	Roadway/Open Space	-	-	0.02
855	669369.0	4280395.0	Roadway/Open Space	-	-	0.02
856	669379.0	4280395.0	Roadway/Open Space	-	-	0.02
857	669389.0	4280395.0	Roadway/Open Space	-	-	0.02
858	668709.0	4280405.0	Roadway/Open Space	-	-	0.02
859	668719.0	4280405.0	Roadway/Open Space	-	-	0.02
860	668729.0	4280405.0	Roadway/Open Space	-	-	0.02
861	668739.0	4280405.0	Roadway/Open Space	-	-	0.02
862	668749.0	4280405.0	Roadway/Open Space	-	-	0.02
863	668759.0	4280405.0	Roadway/Open Space	-	-	0.02
864	668769.0	4280405.0	Roadway/Open Space	-	-	0.02
865	668779.0	4280405.0	Roadway/Open Space	-	-	0.02
866	668789.0	4280405.0	Roadway/Open Space	-	-	0.02
867	668799.0	4280405.0	Roadway/Open Space	-	-	0.02
868	668809.0	4280405.0	Roadway/Open Space	-	-	0.02
869	668819.0	4280405.0	Roadway/Open Space	-	-	0.02
870	668829.0	4280405.0	Roadway/Open Space	-	-	0.02
871	668839.0	4280405.0	Roadway/Open Space	-	-	0.02
872	668849.0	4280405.0	Roadway/Open Space	-	-	0.02
873	668859.0	4280405.0	Roadway/Open Space	-	-	0.02
874	668869.0	4280405.0	Roadway/Open Space	-	-	0.02
875	668879.0	4280405.0	Roadway/Open Space	-	-	0.02
876	668889.0	4280405.0	Roadway/Open Space	-	-	0.02
877	668899.0	4280405.0	Roadway/Open Space	-	-	0.02
878	668909.0	4280405.0	Roadway/Open Space	-	-	0.02
879	668919.0	4280405.0	Roadway/Open Space	-	-	0.02
880	668929.0	4280405.0	Roadway/Open Space	-	-	0.02
881	668939.0	4280405.0	Roadway/Open Space	-	-	0.02
882	668949.0	4280405.0	Roadway/Open Space	-	-	0.02
883	668959.0	4280405.0	Roadway/Open Space	-	-	0.02
884	668969.0	4280405.0	Roadway/Open Space	-	-	0.02
885	668979.0	4280405.0	Roadway/Open Space	-	-	0.02
886	668989.0	4280405.0	Roadway/Open Space	-	-	0.02
887	668999.0	4280405.0	Roadway/Open Space	-	-	0.02
888	669009.0	4280405.0	Roadway/Open Space	-	-	0.02
889	669019.0	4280405.0	Roadway/Open Space	-	-	0.02
890	669029.0	4280405.0	Roadway/Open Space	-	-	0.02
891	669039.0	4280405.0	Roadway/Open Space	-	-	0.02
892	669049.0	4280405.0	Roadway/Open Space	-	-	0.02
893	669059.0	4280405.0	Roadway/Open Space	-	-	0.02
894	669069.0	4280405.0	Roadway/Open Space	-	-	0.02
895	669079.0	4280405.0	Roadway/Open Space	-	-	0.02
896	669089.0	4280405.0	Roadway/Open Space	-	-	0.02
897	669099.0	4280405.0	Roadway/Open Space	-	-	0.02
898	669109.0	4280405.0	Roadway/Open Space	-	-	0.02
899	669119.0	4280405.0	Roadway/Open Space	-	-	0.02
900	669129.0	4280405.0	Roadway/Open Space	-	-	0.02
901	669139.0	4280405.0	Roadway/Open Space	-	-	0.02
902	669149.0	4280405.0	Roadway/Open Space	-	-	0.02
903	669159.0	4280405.0	Roadway/Open Space	-	-	0.02
904	669169.0	4280405.0	Roadway/Open Space	-	-	0.02
905	669179.0	4280405.0	Roadway/Open Space	-	-	0.02
906	669189.0	4280405.0	Roadway/Open Space	-	-	0.02
907	669199.0	4280405.0	Roadway/Open Space	-	-	0.02
908	669209.0	4280405.0	Roadway/Open Space	-	-	0.02
909	669219.0	4280405.0	Roadway/Open Space	-	-	0.02
910	669229.0	4280405.0	Roadway/Open Space	-	-	0.02
911	669239.0	4280405.0	Roadway/Open Space	-	-	0.02
912	669249.0	4280405.0	Roadway/Open Space	-	-	0.02
913	669259.0	4280405.0	Roadway/Open Space	-	-	0.02
914	669269.0	4280405.0	Roadway/Open Space	-	-	0.02
915	669279.0	4280405.0	Roadway/Open Space	-	-	0.02
916	669289.0	4280405.0	Roadway/Open Space	-	-	0.02
917	669299.0	4280405.0	Roadway/Open Space	-	-	0.02
918	669309.0	4280405.0	Roadway/Open Space	-	-	0.02
919	669319.0	4280405.0	Roadway/Open Space	-	-	0.02
920	669329.0	4280405.0	Roadway/Open Space	-	-	0.02
921	669339.0	4280405.0	Roadway/Open Space	-	-	0.02
922	669349.0	4280405.0	Roadway/Open Space	-	-	0.02
923	669359.0	4280405.0	Roadway/Open Space	-	-	0.02
924	669369.0	4280405.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
925	669379.0	4280405.0	Roadway/Open Space	-	-	0.02
926	669389.0	4280405.0	Roadway/Open Space	-	-	0.02
927	669399.0	4280405.0	Roadway/Open Space	-	-	0.02
928	668709.0	4280415.0	Roadway/Open Space	-	-	0.02
929	668719.0	4280415.0	Roadway/Open Space	-	-	0.02
930	668729.0	4280415.0	Roadway/Open Space	-	-	0.02
931	668739.0	4280415.0	Roadway/Open Space	-	-	0.02
932	668749.0	4280415.0	Roadway/Open Space	-	-	0.02
933	668759.0	4280415.0	Roadway/Open Space	-	-	0.02
934	668769.0	4280415.0	Roadway/Open Space	-	-	0.02
935	668779.0	4280415.0	Roadway/Open Space	-	-	0.02
936	668789.0	4280415.0	Roadway/Open Space	-	-	0.02
937	668799.0	4280415.0	Roadway/Open Space	-	-	0.02
938	668809.0	4280415.0	Roadway/Open Space	-	-	0.02
939	668819.0	4280415.0	Roadway/Open Space	-	-	0.02
940	668829.0	4280415.0	Roadway/Open Space	-	-	0.02
941	668839.0	4280415.0	Roadway/Open Space	-	-	0.02
942	668849.0	4280415.0	Roadway/Open Space	-	-	0.02
943	668859.0	4280415.0	Roadway/Open Space	-	-	0.02
944	668869.0	4280415.0	Roadway/Open Space	-	-	0.02
945	668879.0	4280415.0	Roadway/Open Space	-	-	0.02
946	668889.0	4280415.0	Roadway/Open Space	-	-	0.02
947	668899.0	4280415.0	Roadway/Open Space	-	-	0.02
948	668909.0	4280415.0	Roadway/Open Space	-	-	0.02
949	668919.0	4280415.0	Roadway/Open Space	-	-	0.02
950	668929.0	4280415.0	Roadway/Open Space	-	-	0.02
951	668939.0	4280415.0	Roadway/Open Space	-	-	0.02
952	668949.0	4280415.0	Roadway/Open Space	-	-	0.02
953	668959.0	4280415.0	Roadway/Open Space	-	-	0.02
954	668969.0	4280415.0	Roadway/Open Space	-	-	0.02
955	668979.0	4280415.0	Roadway/Open Space	-	-	0.02
956	668989.0	4280415.0	Roadway/Open Space	-	-	0.02
957	668999.0	4280415.0	Roadway/Open Space	-	-	0.02
958	669009.0	4280415.0	Roadway/Open Space	-	-	0.02
959	669019.0	4280415.0	Roadway/Open Space	-	-	0.02
960	669029.0	4280415.0	Roadway/Open Space	-	-	0.02
961	669039.0	4280415.0	Roadway/Open Space	-	-	0.02
962	669049.0	4280415.0	Roadway/Open Space	-	-	0.02
963	669059.0	4280415.0	Roadway/Open Space	-	-	0.02
964	669069.0	4280415.0	Roadway/Open Space	-	-	0.02
965	669079.0	4280415.0	Roadway/Open Space	-	-	0.02
966	669089.0	4280415.0	Roadway/Open Space	-	-	0.02
967	669099.0	4280415.0	Roadway/Open Space	-	-	0.02
968	669109.0	4280415.0	Roadway/Open Space	-	-	0.02
969	669119.0	4280415.0	Roadway/Open Space	-	-	0.02
970	669129.0	4280415.0	Roadway/Open Space	-	-	0.02
971	669139.0	4280415.0	Roadway/Open Space	-	-	0.02
972	669149.0	4280415.0	Roadway/Open Space	-	-	0.02
973	669159.0	4280415.0	Roadway/Open Space	-	-	0.02
974	669169.0	4280415.0	Roadway/Open Space	-	-	0.02
975	669179.0	4280415.0	Roadway/Open Space	-	-	0.02
976	669189.0	4280415.0	Roadway/Open Space	-	-	0.02
977	669199.0	4280415.0	Roadway/Open Space	-	-	0.02
978	669209.0	4280415.0	Roadway/Open Space	-	-	0.02
979	669219.0	4280415.0	Roadway/Open Space	-	-	0.02
980	669229.0	4280415.0	Roadway/Open Space	-	-	0.02
981	669239.0	4280415.0	Roadway/Open Space	-	-	0.02
982	669249.0	4280415.0	Roadway/Open Space	-	-	0.02
983	669259.0	4280415.0	Roadway/Open Space	-	-	0.02
984	669269.0	4280415.0	Roadway/Open Space	-	-	0.02
985	669279.0	4280415.0	Roadway/Open Space	-	-	0.02
986	669289.0	4280415.0	Roadway/Open Space	-	-	0.02
987	669299.0	4280415.0	Roadway/Open Space	-	-	0.02
988	669309.0	4280415.0	Roadway/Open Space	-	-	0.02
989	669319.0	4280415.0	Roadway/Open Space	-	-	0.02
990	669329.0	4280415.0	Roadway/Open Space	-	-	0.02
991	669339.0	4280415.0	Roadway/Open Space	-	-	0.02
992	669349.0	4280415.0	Roadway/Open Space	-	-	0.02
993	669359.0	4280415.0	Roadway/Open Space	-	-	0.02
994	669369.0	4280415.0	Roadway/Open Space	-	-	0.02
995	669379.0	4280415.0	Roadway/Open Space	-	-	0.02
996	669389.0	4280415.0	Roadway/Open Space	-	-	0.02
997	669399.0	4280415.0	Roadway/Open Space	-	-	0.02
998	668699.0	4280425.0	Roadway/Open Space	-	-	0.02
999	668709.0	4280425.0	Roadway/Open Space	-	-	0.02
1000	668719.0	4280425.0	Roadway/Open Space	-	-	0.02
1001	668729.0	4280425.0	Roadway/Open Space	-	-	0.02
1002	668739.0	4280425.0	Roadway/Open Space	-	-	0.02
1003	668749.0	4280425.0	Roadway/Open Space	-	-	0.02
1004	668759.0	4280425.0	Roadway/Open Space	-	-	0.02
1005	668769.0	4280425.0	Roadway/Open Space	-	-	0.02
1006	668779.0	4280425.0	Roadway/Open Space	-	-	0.02
1007	668789.0	4280425.0	Roadway/Open Space	-	-	0.02
1008	668799.0	4280425.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1009	668809.0	4280425.0	Roadway/Open Space	-	-	0.02
1010	668819.0	4280425.0	Roadway/Open Space	-	-	0.02
1011	668829.0	4280425.0	Roadway/Open Space	-	-	0.02
1012	668839.0	4280425.0	Roadway/Open Space	-	-	0.02
1013	668849.0	4280425.0	Roadway/Open Space	-	-	0.02
1014	668859.0	4280425.0	Roadway/Open Space	-	-	0.02
1015	668869.0	4280425.0	Roadway/Open Space	-	-	0.02
1016	668879.0	4280425.0	Roadway/Open Space	-	-	0.02
1017	668889.0	4280425.0	Roadway/Open Space	-	-	0.02
1018	668899.0	4280425.0	Roadway/Open Space	-	-	0.02
1019	668909.0	4280425.0	Roadway/Open Space	-	-	0.02
1020	668919.0	4280425.0	Roadway/Open Space	-	-	0.02
1021	668929.0	4280425.0	Roadway/Open Space	-	-	0.02
1022	668939.0	4280425.0	Roadway/Open Space	-	-	0.02
1023	668949.0	4280425.0	Roadway/Open Space	-	-	0.02
1024	668959.0	4280425.0	Roadway/Open Space	-	-	0.02
1025	668969.0	4280425.0	Roadway/Open Space	-	-	0.02
1026	668979.0	4280425.0	Roadway/Open Space	-	-	0.02
1027	668989.0	4280425.0	Roadway/Open Space	-	-	0.02
1028	668999.0	4280425.0	Roadway/Open Space	-	-	0.02
1029	669009.0	4280425.0	Roadway/Open Space	-	-	0.02
1030	669019.0	4280425.0	Roadway/Open Space	-	-	0.02
1031	669029.0	4280425.0	Roadway/Open Space	-	-	0.02
1032	669039.0	4280425.0	Roadway/Open Space	-	-	0.02
1033	669049.0	4280425.0	Roadway/Open Space	-	-	0.02
1034	669059.0	4280425.0	Roadway/Open Space	-	-	0.02
1035	669069.0	4280425.0	Roadway/Open Space	-	-	0.02
1036	669079.0	4280425.0	Roadway/Open Space	-	-	0.02
1037	669089.0	4280425.0	Roadway/Open Space	-	-	0.02
1038	669099.0	4280425.0	Roadway/Open Space	-	-	0.02
1039	669109.0	4280425.0	Roadway/Open Space	-	-	0.02
1040	669119.0	4280425.0	Roadway/Open Space	-	-	0.02
1041	669129.0	4280425.0	Roadway/Open Space	-	-	0.02
1042	669139.0	4280425.0	Roadway/Open Space	-	-	0.02
1043	669149.0	4280425.0	Roadway/Open Space	-	-	0.02
1044	669159.0	4280425.0	Roadway/Open Space	-	-	0.02
1045	669169.0	4280425.0	Roadway/Open Space	-	-	0.02
1046	669179.0	4280425.0	Roadway/Open Space	-	-	0.02
1047	669189.0	4280425.0	Roadway/Open Space	-	-	0.02
1048	669199.0	4280425.0	Roadway/Open Space	-	-	0.02
1049	669209.0	4280425.0	Roadway/Open Space	-	-	0.02
1050	669219.0	4280425.0	Roadway/Open Space	-	-	0.02
1051	669229.0	4280425.0	Roadway/Open Space	-	-	0.02
1052	669239.0	4280425.0	Roadway/Open Space	-	-	0.02
1053	669249.0	4280425.0	Roadway/Open Space	-	-	0.02
1054	669259.0	4280425.0	Roadway/Open Space	-	-	0.02
1055	669269.0	4280425.0	Roadway/Open Space	-	-	0.02
1056	669279.0	4280425.0	Roadway/Open Space	-	-	0.02
1057	669289.0	4280425.0	Roadway/Open Space	-	-	0.02
1058	669299.0	4280425.0	Roadway/Open Space	-	-	0.02
1059	669309.0	4280425.0	Roadway/Open Space	-	-	0.02
1060	669319.0	4280425.0	Roadway/Open Space	-	-	0.02
1061	669329.0	4280425.0	Roadway/Open Space	-	-	0.02
1062	669339.0	4280425.0	Roadway/Open Space	-	-	0.02
1063	669349.0	4280425.0	Roadway/Open Space	-	-	0.02
1064	669359.0	4280425.0	Roadway/Open Space	-	-	0.02
1065	669369.0	4280425.0	Roadway/Open Space	-	-	0.02
1066	669379.0	4280425.0	Roadway/Open Space	-	-	0.02
1067	669389.0	4280425.0	Roadway/Open Space	-	-	0.02
1068	669399.0	4280425.0	Roadway/Open Space	-	-	0.02
1069	669409.0	4280425.0	Roadway/Open Space	-	-	0.02
1070	669419.0	4280425.0	Roadway/Open Space	-	-	0.02
1071	668689.0	4280435.0	Roadway/Open Space	-	-	0.02
1072	668699.0	4280435.0	Roadway/Open Space	-	-	0.02
1073	668709.0	4280435.0	Roadway/Open Space	-	-	0.02
1074	668719.0	4280435.0	Roadway/Open Space	-	-	0.02
1075	668729.0	4280435.0	Roadway/Open Space	-	-	0.02
1076	668739.0	4280435.0	Roadway/Open Space	-	-	0.02
1077	668749.0	4280435.0	Roadway/Open Space	-	-	0.02
1078	668759.0	4280435.0	Roadway/Open Space	-	-	0.02
1079	668769.0	4280435.0	Roadway/Open Space	-	-	0.02
1080	668779.0	4280435.0	Roadway/Open Space	-	-	0.02
1081	668789.0	4280435.0	Roadway/Open Space	-	-	0.02
1082	668799.0	4280435.0	Roadway/Open Space	-	-	0.02
1083	668809.0	4280435.0	Roadway/Open Space	-	-	0.02
1084	668819.0	4280435.0	Roadway/Open Space	-	-	0.02
1085	668829.0	4280435.0	Roadway/Open Space	-	-	0.02
1086	668839.0	4280435.0	Roadway/Open Space	-	-	0.02
1087	668849.0	4280435.0	Roadway/Open Space	-	-	0.02
1088	668859.0	4280435.0	Roadway/Open Space	-	-	0.02
1089	668869.0	4280435.0	Roadway/Open Space	-	-	0.02
1090	668879.0	4280435.0	Roadway/Open Space	-	-	0.02
1091	668889.0	4280435.0	Roadway/Open Space	-	-	0.02
1092	668899.0	4280435.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1093	668909.0	4280435.0	Roadway/Open Space	-	-	0.02
1094	668919.0	4280435.0	Roadway/Open Space	-	-	0.02
1095	668929.0	4280435.0	Roadway/Open Space	-	-	0.02
1096	668939.0	4280435.0	Roadway/Open Space	-	-	0.02
1097	668949.0	4280435.0	Roadway/Open Space	-	-	0.02
1098	668959.0	4280435.0	Roadway/Open Space	-	-	0.02
1099	668969.0	4280435.0	Roadway/Open Space	-	-	0.02
1100	668979.0	4280435.0	Roadway/Open Space	-	-	0.02
1101	668989.0	4280435.0	Roadway/Open Space	-	-	0.02
1102	668999.0	4280435.0	Roadway/Open Space	-	-	0.02
1103	669009.0	4280435.0	Roadway/Open Space	-	-	0.02
1104	669019.0	4280435.0	Roadway/Open Space	-	-	0.02
1105	669029.0	4280435.0	Roadway/Open Space	-	-	0.02
1106	669039.0	4280435.0	Roadway/Open Space	-	-	0.02
1107	669049.0	4280435.0	Roadway/Open Space	-	-	0.02
1108	669059.0	4280435.0	Roadway/Open Space	-	-	0.02
1109	669069.0	4280435.0	Roadway/Open Space	-	-	0.02
1110	669079.0	4280435.0	Roadway/Open Space	-	-	0.02
1111	669089.0	4280435.0	Roadway/Open Space	-	-	0.02
1112	669099.0	4280435.0	Roadway/Open Space	-	-	0.02
1113	669109.0	4280435.0	Roadway/Open Space	-	-	0.02
1114	669119.0	4280435.0	Roadway/Open Space	-	-	0.02
1115	669129.0	4280435.0	Roadway/Open Space	-	-	0.02
1116	669139.0	4280435.0	Roadway/Open Space	-	-	0.02
1117	669149.0	4280435.0	Roadway/Open Space	-	-	0.02
1118	669159.0	4280435.0	Roadway/Open Space	-	-	0.02
1119	669169.0	4280435.0	Roadway/Open Space	-	-	0.02
1120	669179.0	4280435.0	Roadway/Open Space	-	-	0.02
1121	669189.0	4280435.0	Roadway/Open Space	-	-	0.02
1122	669199.0	4280435.0	Roadway/Open Space	-	-	0.02
1123	669209.0	4280435.0	Roadway/Open Space	-	-	0.02
1124	669219.0	4280435.0	Roadway/Open Space	-	-	0.02
1125	669229.0	4280435.0	Roadway/Open Space	-	-	0.02
1126	669239.0	4280435.0	Roadway/Open Space	-	-	0.02
1127	669249.0	4280435.0	Roadway/Open Space	-	-	0.02
1128	669259.0	4280435.0	Roadway/Open Space	-	-	0.02
1129	669269.0	4280435.0	Roadway/Open Space	-	-	0.02
1130	669279.0	4280435.0	Roadway/Open Space	-	-	0.02
1131	669289.0	4280435.0	Roadway/Open Space	-	-	0.02
1132	669299.0	4280435.0	Roadway/Open Space	-	-	0.02
1133	669309.0	4280435.0	Roadway/Open Space	-	-	0.02
1134	669319.0	4280435.0	Roadway/Open Space	-	-	0.02
1135	669329.0	4280435.0	Roadway/Open Space	-	-	0.02
1136	669339.0	4280435.0	Roadway/Open Space	-	-	0.02
1137	669349.0	4280435.0	Roadway/Open Space	-	-	0.02
1138	669359.0	4280435.0	Roadway/Open Space	-	-	0.02
1139	669369.0	4280435.0	Roadway/Open Space	-	-	0.02
1140	669379.0	4280435.0	Roadway/Open Space	-	-	0.02
1141	669389.0	4280435.0	Roadway/Open Space	-	-	0.02
1142	669399.0	4280435.0	Roadway/Open Space	-	-	0.02
1143	669409.0	4280435.0	Roadway/Open Space	-	-	0.02
1144	669419.0	4280435.0	Roadway/Open Space	-	-	0.02
1145	669429.0	4280435.0	Roadway/Open Space	-	-	0.02
1146	669439.0	4280435.0	Roadway/Open Space	-	-	0.01
1147	668689.0	4280445.0	Roadway/Open Space	-	-	0.02
1148	668699.0	4280445.0	Roadway/Open Space	-	-	0.02
1149	668709.0	4280445.0	Roadway/Open Space	-	-	0.02
1150	668719.0	4280445.0	Roadway/Open Space	-	-	0.02
1151	668729.0	4280445.0	Roadway/Open Space	-	-	0.02
1152	668739.0	4280445.0	Roadway/Open Space	-	-	0.02
1153	668749.0	4280445.0	Roadway/Open Space	-	-	0.02
1154	668759.0	4280445.0	Roadway/Open Space	-	-	0.02
1155	668769.0	4280445.0	Roadway/Open Space	-	-	0.02
1156	668779.0	4280445.0	Roadway/Open Space	-	-	0.02
1157	668789.0	4280445.0	Roadway/Open Space	-	-	0.02
1158	668799.0	4280445.0	Roadway/Open Space	-	-	0.02
1159	668809.0	4280445.0	Roadway/Open Space	-	-	0.02
1160	668819.0	4280445.0	Roadway/Open Space	-	-	0.02
1161	668829.0	4280445.0	Roadway/Open Space	-	-	0.02
1162	668839.0	4280445.0	Roadway/Open Space	-	-	0.02
1163	668849.0	4280445.0	Roadway/Open Space	-	-	0.02
1164	668859.0	4280445.0	Roadway/Open Space	-	-	0.02
1165	668869.0	4280445.0	Roadway/Open Space	-	-	0.02
1166	668879.0	4280445.0	Roadway/Open Space	-	-	0.02
1167	668889.0	4280445.0	Roadway/Open Space	-	-	0.02
1168	668899.0	4280445.0	Roadway/Open Space	-	-	0.02
1169	668909.0	4280445.0	Roadway/Open Space	-	-	0.02
1170	668919.0	4280445.0	Roadway/Open Space	-	-	0.02
1171	668929.0	4280445.0	Roadway/Open Space	-	-	0.02
1172	668939.0	4280445.0	Roadway/Open Space	-	-	0.02
1173	668949.0	4280445.0	Roadway/Open Space	-	-	0.02
1174	668959.0	4280445.0	Roadway/Open Space	-	-	0.02
1175	668969.0	4280445.0	Roadway/Open Space	-	-	0.02
1176	668979.0	4280445.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1177	668989.0	4280445.0	Roadway/Open Space	-	-	0.02
1178	668999.0	4280445.0	Roadway/Open Space	-	-	0.02
1179	669009.0	4280445.0	Roadway/Open Space	-	-	0.02
1180	669019.0	4280445.0	Roadway/Open Space	-	-	0.02
1181	669029.0	4280445.0	Roadway/Open Space	-	-	0.02
1182	669039.0	4280445.0	Roadway/Open Space	-	-	0.02
1183	669049.0	4280445.0	Roadway/Open Space	-	-	0.02
1184	669059.0	4280445.0	Roadway/Open Space	-	-	0.02
1185	669069.0	4280445.0	Roadway/Open Space	-	-	0.02
1186	669079.0	4280445.0	Roadway/Open Space	-	-	0.02
1187	669089.0	4280445.0	Roadway/Open Space	-	-	0.02
1188	669099.0	4280445.0	Roadway/Open Space	-	-	0.02
1189	669109.0	4280445.0	Roadway/Open Space	-	-	0.02
1190	669119.0	4280445.0	Roadway/Open Space	-	-	0.02
1191	669129.0	4280445.0	Roadway/Open Space	-	-	0.02
1192	669139.0	4280445.0	Roadway/Open Space	-	-	0.02
1193	669149.0	4280445.0	Roadway/Open Space	-	-	0.02
1194	669159.0	4280445.0	Roadway/Open Space	-	-	0.02
1195	669169.0	4280445.0	Roadway/Open Space	-	-	0.02
1196	669179.0	4280445.0	Roadway/Open Space	-	-	0.02
1197	669189.0	4280445.0	Roadway/Open Space	-	-	0.02
1198	669199.0	4280445.0	Roadway/Open Space	-	-	0.02
1199	669209.0	4280445.0	Roadway/Open Space	-	-	0.02
1200	669219.0	4280445.0	Roadway/Open Space	-	-	0.02
1201	669229.0	4280445.0	Roadway/Open Space	-	-	0.02
1202	669239.0	4280445.0	Roadway/Open Space	-	-	0.02
1203	669249.0	4280445.0	Roadway/Open Space	-	-	0.02
1204	669259.0	4280445.0	Roadway/Open Space	-	-	0.02
1205	669269.0	4280445.0	Roadway/Open Space	-	-	0.02
1206	669279.0	4280445.0	Roadway/Open Space	-	-	0.02
1207	669289.0	4280445.0	Roadway/Open Space	-	-	0.02
1208	669299.0	4280445.0	Roadway/Open Space	-	-	0.02
1209	669309.0	4280445.0	Roadway/Open Space	-	-	0.02
1210	669319.0	4280445.0	Roadway/Open Space	-	-	0.02
1211	669329.0	4280445.0	Roadway/Open Space	-	-	0.02
1212	669339.0	4280445.0	Roadway/Open Space	-	-	0.02
1213	669349.0	4280445.0	Roadway/Open Space	-	-	0.02
1214	669359.0	4280445.0	Roadway/Open Space	-	-	0.02
1215	669369.0	4280445.0	Roadway/Open Space	-	-	0.02
1216	669379.0	4280445.0	Roadway/Open Space	-	-	0.02
1217	669389.0	4280445.0	Roadway/Open Space	-	-	0.02
1218	669399.0	4280445.0	Roadway/Open Space	-	-	0.02
1219	669409.0	4280445.0	Roadway/Open Space	-	-	0.02
1220	669419.0	4280445.0	Roadway/Open Space	-	-	0.02
1221	669429.0	4280445.0	Roadway/Open Space	-	-	0.02
1222	669439.0	4280445.0	Roadway/Open Space	-	-	0.01
1223	669449.0	4280445.0	Roadway/Open Space	-	-	0.01
1224	668679.0	4280455.0	Roadway/Open Space	-	-	0.02
1225	668689.0	4280455.0	Roadway/Open Space	-	-	0.02
1226	668699.0	4280455.0	Roadway/Open Space	-	-	0.02
1227	668709.0	4280455.0	Roadway/Open Space	-	-	0.02
1228	668719.0	4280455.0	Roadway/Open Space	-	-	0.02
1229	668729.0	4280455.0	Roadway/Open Space	-	-	0.02
1230	668739.0	4280455.0	Roadway/Open Space	-	-	0.02
1231	668749.0	4280455.0	Roadway/Open Space	-	-	0.02
1232	668759.0	4280455.0	Roadway/Open Space	-	-	0.02
1233	668769.0	4280455.0	Roadway/Open Space	-	-	0.02
1234	668779.0	4280455.0	Roadway/Open Space	-	-	0.02
1235	668789.0	4280455.0	Roadway/Open Space	-	-	0.02
1236	668799.0	4280455.0	Roadway/Open Space	-	-	0.02
1237	668809.0	4280455.0	Roadway/Open Space	-	-	0.02
1238	668819.0	4280455.0	Roadway/Open Space	-	-	0.02
1239	668829.0	4280455.0	Roadway/Open Space	-	-	0.02
1240	668839.0	4280455.0	Roadway/Open Space	-	-	0.02
1241	668849.0	4280455.0	Roadway/Open Space	-	-	0.02
1242	668859.0	4280455.0	Roadway/Open Space	-	-	0.02
1243	668869.0	4280455.0	Roadway/Open Space	-	-	0.02
1244	668879.0	4280455.0	Roadway/Open Space	-	-	0.02
1245	668889.0	4280455.0	Roadway/Open Space	-	-	0.02
1246	668899.0	4280455.0	Roadway/Open Space	-	-	0.02
1247	668909.0	4280455.0	Roadway/Open Space	-	-	0.02
1248	668919.0	4280455.0	Roadway/Open Space	-	-	0.02
1249	668929.0	4280455.0	Roadway/Open Space	-	-	0.02
1250	668939.0	4280455.0	Roadway/Open Space	-	-	0.02
1251	668949.0	4280455.0	Roadway/Open Space	-	-	0.02
1252	668959.0	4280455.0	Roadway/Open Space	-	-	0.02
1253	668969.0	4280455.0	Roadway/Open Space	-	-	0.02
1254	668979.0	4280455.0	Roadway/Open Space	-	-	0.02
1255	668989.0	4280455.0	Roadway/Open Space	-	-	0.02
1256	668999.0	4280455.0	Roadway/Open Space	-	-	0.02
1257	669009.0	4280455.0	Roadway/Open Space	-	-	0.02
1258	669019.0	4280455.0	Roadway/Open Space	-	-	0.02
1259	669029.0	4280455.0	Roadway/Open Space	-	-	0.02
1260	669039.0	4280455.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1261	669049.0	4280455.0	Roadway/Open Space	-	-	0.02
1262	669059.0	4280455.0	Roadway/Open Space	-	-	0.02
1263	669069.0	4280455.0	Roadway/Open Space	-	-	0.02
1264	669079.0	4280455.0	Roadway/Open Space	-	-	0.02
1265	669089.0	4280455.0	Roadway/Open Space	-	-	0.02
1266	669099.0	4280455.0	Roadway/Open Space	-	-	0.02
1267	669109.0	4280455.0	Roadway/Open Space	-	-	0.02
1268	669119.0	4280455.0	Roadway/Open Space	-	-	0.02
1269	669129.0	4280455.0	Roadway/Open Space	-	-	0.02
1270	669139.0	4280455.0	Roadway/Open Space	-	-	0.02
1271	669149.0	4280455.0	Roadway/Open Space	-	-	0.02
1272	669159.0	4280455.0	Roadway/Open Space	-	-	0.02
1273	669169.0	4280455.0	Roadway/Open Space	-	-	0.02
1274	669179.0	4280455.0	Roadway/Open Space	-	-	0.02
1275	669189.0	4280455.0	Roadway/Open Space	-	-	0.02
1276	669199.0	4280455.0	Roadway/Open Space	-	-	0.02
1277	669209.0	4280455.0	Roadway/Open Space	-	-	0.02
1278	669219.0	4280455.0	Roadway/Open Space	-	-	0.02
1279	669229.0	4280455.0	Roadway/Open Space	-	-	0.02
1280	669239.0	4280455.0	Roadway/Open Space	-	-	0.02
1281	669249.0	4280455.0	Roadway/Open Space	-	-	0.02
1282	669259.0	4280455.0	Roadway/Open Space	-	-	0.02
1283	669269.0	4280455.0	Roadway/Open Space	-	-	0.02
1284	669279.0	4280455.0	Roadway/Open Space	-	-	0.02
1285	669289.0	4280455.0	Roadway/Open Space	-	-	0.02
1286	669299.0	4280455.0	Roadway/Open Space	-	-	0.02
1287	669309.0	4280455.0	Roadway/Open Space	-	-	0.02
1288	669319.0	4280455.0	Roadway/Open Space	-	-	0.02
1289	669329.0	4280455.0	Roadway/Open Space	-	-	0.02
1290	669339.0	4280455.0	Roadway/Open Space	-	-	0.02
1291	669349.0	4280455.0	Roadway/Open Space	-	-	0.02
1292	669359.0	4280455.0	Roadway/Open Space	-	-	0.02
1293	669369.0	4280455.0	Roadway/Open Space	-	-	0.02
1294	669379.0	4280455.0	Roadway/Open Space	-	-	0.02
1295	669389.0	4280455.0	Roadway/Open Space	-	-	0.02
1296	669399.0	4280455.0	Roadway/Open Space	-	-	0.02
1297	669409.0	4280455.0	Roadway/Open Space	-	-	0.02
1298	669419.0	4280455.0	Roadway/Open Space	-	-	0.02
1299	669429.0	4280455.0	Roadway/Open Space	-	-	0.02
1300	669439.0	4280455.0	Roadway/Open Space	-	-	0.01
1301	669449.0	4280455.0	Roadway/Open Space	-	-	0.01
1302	669459.0	4280455.0	Roadway/Open Space	-	-	0.01
1303	669469.0	4280455.0	Roadway/Open Space	-	-	0.01
1304	668669.0	4280465.0	Roadway/Open Space	-	-	0.02
1305	668679.0	4280465.0	Roadway/Open Space	-	-	0.02
1306	668689.0	4280465.0	Roadway/Open Space	-	-	0.02
1307	668699.0	4280465.0	Roadway/Open Space	-	-	0.02
1308	668709.0	4280465.0	Roadway/Open Space	-	-	0.02
1309	668719.0	4280465.0	Roadway/Open Space	-	-	0.02
1310	668729.0	4280465.0	Roadway/Open Space	-	-	0.02
1311	668739.0	4280465.0	Roadway/Open Space	-	-	0.02
1312	668749.0	4280465.0	Roadway/Open Space	-	-	0.02
1313	668759.0	4280465.0	Roadway/Open Space	-	-	0.02
1314	668769.0	4280465.0	Roadway/Open Space	-	-	0.02
1315	668779.0	4280465.0	Roadway/Open Space	-	-	0.02
1316	668789.0	4280465.0	Roadway/Open Space	-	-	0.02
1317	668799.0	4280465.0	Roadway/Open Space	-	-	0.02
1318	668809.0	4280465.0	Roadway/Open Space	-	-	0.02
1319	668819.0	4280465.0	Roadway/Open Space	-	-	0.02
1320	668829.0	4280465.0	Roadway/Open Space	-	-	0.02
1321	668839.0	4280465.0	Roadway/Open Space	-	-	0.02
1322	668849.0	4280465.0	Roadway/Open Space	-	-	0.02
1323	668859.0	4280465.0	Roadway/Open Space	-	-	0.02
1324	668869.0	4280465.0	Roadway/Open Space	-	-	0.02
1325	668879.0	4280465.0	Roadway/Open Space	-	-	0.02
1326	668889.0	4280465.0	Roadway/Open Space	-	-	0.02
1327	668899.0	4280465.0	Roadway/Open Space	-	-	0.02
1328	668909.0	4280465.0	Roadway/Open Space	-	-	0.02
1329	668919.0	4280465.0	Roadway/Open Space	-	-	0.02
1330	668929.0	4280465.0	Roadway/Open Space	-	-	0.02
1331	668939.0	4280465.0	Roadway/Open Space	-	-	0.02
1332	668949.0	4280465.0	Roadway/Open Space	-	-	0.02
1333	668959.0	4280465.0	Roadway/Open Space	-	-	0.02
1334	668969.0	4280465.0	Roadway/Open Space	-	-	0.02
1335	668979.0	4280465.0	Roadway/Open Space	-	-	0.02
1336	668989.0	4280465.0	Roadway/Open Space	-	-	0.02
1337	668999.0	4280465.0	Roadway/Open Space	-	-	0.02
1338	669009.0	4280465.0	Roadway/Open Space	-	-	0.02
1339	669019.0	4280465.0	Roadway/Open Space	-	-	0.02
1340	669029.0	4280465.0	Roadway/Open Space	-	-	0.02
1341	669039.0	4280465.0	Roadway/Open Space	-	-	0.02
1342	669049.0	4280465.0	Roadway/Open Space	-	-	0.02
1343	669059.0	4280465.0	Roadway/Open Space	-	-	0.02
1344	669069.0	4280465.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1345	669079.0	4280465.0	Roadway/Open Space	-	-	0.02
1346	669089.0	4280465.0	Roadway/Open Space	-	-	0.02
1347	669099.0	4280465.0	Roadway/Open Space	-	-	0.02
1348	669109.0	4280465.0	Roadway/Open Space	-	-	0.02
1349	669119.0	4280465.0	Roadway/Open Space	-	-	0.02
1350	669129.0	4280465.0	Roadway/Open Space	-	-	0.02
1351	669139.0	4280465.0	Roadway/Open Space	-	-	0.02
1352	669149.0	4280465.0	Roadway/Open Space	-	-	0.02
1353	669159.0	4280465.0	Roadway/Open Space	-	-	0.02
1354	669169.0	4280465.0	Roadway/Open Space	-	-	0.02
1355	669179.0	4280465.0	Roadway/Open Space	-	-	0.02
1356	669189.0	4280465.0	Roadway/Open Space	-	-	0.02
1357	669199.0	4280465.0	Roadway/Open Space	-	-	0.02
1358	669209.0	4280465.0	Roadway/Open Space	-	-	0.02
1359	669219.0	4280465.0	Roadway/Open Space	-	-	0.02
1360	669229.0	4280465.0	Roadway/Open Space	-	-	0.02
1361	669239.0	4280465.0	Roadway/Open Space	-	-	0.02
1362	669249.0	4280465.0	Roadway/Open Space	-	-	0.02
1363	669259.0	4280465.0	Roadway/Open Space	-	-	0.02
1364	669269.0	4280465.0	Roadway/Open Space	-	-	0.02
1365	669279.0	4280465.0	Roadway/Open Space	-	-	0.02
1366	669289.0	4280465.0	Roadway/Open Space	-	-	0.02
1367	669299.0	4280465.0	Roadway/Open Space	-	-	0.02
1368	669309.0	4280465.0	Roadway/Open Space	-	-	0.02
1369	669319.0	4280465.0	Roadway/Open Space	-	-	0.02
1370	669329.0	4280465.0	Roadway/Open Space	-	-	0.02
1371	669339.0	4280465.0	Roadway/Open Space	-	-	0.02
1372	669349.0	4280465.0	Roadway/Open Space	-	-	0.02
1373	669359.0	4280465.0	Roadway/Open Space	-	-	0.02
1374	669369.0	4280465.0	Roadway/Open Space	-	-	0.02
1375	669379.0	4280465.0	Roadway/Open Space	-	-	0.02
1376	669389.0	4280465.0	Roadway/Open Space	-	-	0.02
1377	669399.0	4280465.0	Roadway/Open Space	-	-	0.02
1378	669409.0	4280465.0	Roadway/Open Space	-	-	0.02
1379	669419.0	4280465.0	Roadway/Open Space	-	-	0.02
1380	669429.0	4280465.0	Roadway/Open Space	-	-	0.02
1381	669439.0	4280465.0	Roadway/Open Space	-	-	0.02
1382	669449.0	4280465.0	Roadway/Open Space	-	-	0.01
1383	669459.0	4280465.0	Roadway/Open Space	-	-	0.01
1384	669469.0	4280465.0	Roadway/Open Space	-	-	0.01
1385	669479.0	4280465.0	Roadway/Open Space	-	-	0.01
1386	668669.0	4280475.0	Roadway/Open Space	-	-	0.02
1387	668679.0	4280475.0	Roadway/Open Space	-	-	0.02
1388	668689.0	4280475.0	Roadway/Open Space	-	-	0.02
1389	668699.0	4280475.0	Roadway/Open Space	-	-	0.02
1390	668709.0	4280475.0	Roadway/Open Space	-	-	0.02
1391	668719.0	4280475.0	Roadway/Open Space	-	-	0.02
1392	668729.0	4280475.0	Roadway/Open Space	-	-	0.02
1393	668739.0	4280475.0	Roadway/Open Space	-	-	0.02
1394	668749.0	4280475.0	Roadway/Open Space	-	-	0.02
1395	668759.0	4280475.0	Roadway/Open Space	-	-	0.02
1396	668769.0	4280475.0	Roadway/Open Space	-	-	0.02
1397	668779.0	4280475.0	Roadway/Open Space	-	-	0.02
1398	668789.0	4280475.0	Roadway/Open Space	-	-	0.02
1399	668799.0	4280475.0	Roadway/Open Space	-	-	0.02
1400	668809.0	4280475.0	Roadway/Open Space	-	-	0.02
1401	668819.0	4280475.0	Roadway/Open Space	-	-	0.02
1402	668829.0	4280475.0	Roadway/Open Space	-	-	0.02
1403	668839.0	4280475.0	Roadway/Open Space	-	-	0.02
1404	668849.0	4280475.0	Roadway/Open Space	-	-	0.02
1405	668859.0	4280475.0	Roadway/Open Space	-	-	0.02
1406	668869.0	4280475.0	Roadway/Open Space	-	-	0.02
1407	668879.0	4280475.0	Roadway/Open Space	-	-	0.02
1408	668889.0	4280475.0	Roadway/Open Space	-	-	0.02
1409	668899.0	4280475.0	Roadway/Open Space	-	-	0.02
1410	668909.0	4280475.0	Roadway/Open Space	-	-	0.02
1411	668919.0	4280475.0	Roadway/Open Space	-	-	0.02
1412	668929.0	4280475.0	Roadway/Open Space	-	-	0.02
1413	668939.0	4280475.0	Roadway/Open Space	-	-	0.02
1414	668949.0	4280475.0	Roadway/Open Space	-	-	0.02
1415	668959.0	4280475.0	Roadway/Open Space	-	-	0.02
1416	668969.0	4280475.0	Roadway/Open Space	-	-	0.02
1417	668979.0	4280475.0	Roadway/Open Space	-	-	0.02
1418	668989.0	4280475.0	Roadway/Open Space	-	-	0.02
1419	668999.0	4280475.0	Roadway/Open Space	-	-	0.02
1420	669009.0	4280475.0	Roadway/Open Space	-	-	0.02
1421	669019.0	4280475.0	Roadway/Open Space	-	-	0.02
1422	669029.0	4280475.0	Roadway/Open Space	-	-	0.02
1423	669039.0	4280475.0	Roadway/Open Space	-	-	0.02
1424	669049.0	4280475.0	Roadway/Open Space	-	-	0.02
1425	669059.0	4280475.0	Roadway/Open Space	-	-	0.02
1426	669069.0	4280475.0	Roadway/Open Space	-	-	0.02
1427	669079.0	4280475.0	Roadway/Open Space	-	-	0.02
1428	669089.0	4280475.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1429	669099.0	4280475.0	Roadway/Open Space	-	-	0.02
1430	669109.0	4280475.0	Roadway/Open Space	-	-	0.02
1431	669119.0	4280475.0	Roadway/Open Space	-	-	0.02
1432	669129.0	4280475.0	Roadway/Open Space	-	-	0.02
1433	669139.0	4280475.0	Roadway/Open Space	-	-	0.02
1434	669149.0	4280475.0	Roadway/Open Space	-	-	0.02
1435	669159.0	4280475.0	Roadway/Open Space	-	-	0.02
1436	669169.0	4280475.0	Roadway/Open Space	-	-	0.02
1437	669179.0	4280475.0	Roadway/Open Space	-	-	0.02
1438	669189.0	4280475.0	Roadway/Open Space	-	-	0.02
1439	669199.0	4280475.0	Roadway/Open Space	-	-	0.02
1440	669209.0	4280475.0	Roadway/Open Space	-	-	0.02
1441	669219.0	4280475.0	Roadway/Open Space	-	-	0.02
1442	669229.0	4280475.0	Roadway/Open Space	-	-	0.02
1443	669239.0	4280475.0	Roadway/Open Space	-	-	0.02
1444	669249.0	4280475.0	Roadway/Open Space	-	-	0.02
1445	669259.0	4280475.0	Roadway/Open Space	-	-	0.02
1446	669269.0	4280475.0	Roadway/Open Space	-	-	0.02
1447	669279.0	4280475.0	Roadway/Open Space	-	-	0.02
1448	669289.0	4280475.0	Roadway/Open Space	-	-	0.02
1449	669299.0	4280475.0	Roadway/Open Space	-	-	0.02
1450	669309.0	4280475.0	Roadway/Open Space	-	-	0.02
1451	669319.0	4280475.0	Roadway/Open Space	-	-	0.02
1452	669329.0	4280475.0	Roadway/Open Space	-	-	0.02
1453	669339.0	4280475.0	Roadway/Open Space	-	-	0.02
1454	669349.0	4280475.0	Roadway/Open Space	-	-	0.02
1455	669359.0	4280475.0	Roadway/Open Space	-	-	0.02
1456	669369.0	4280475.0	Roadway/Open Space	-	-	0.02
1457	669379.0	4280475.0	Roadway/Open Space	-	-	0.02
1458	669389.0	4280475.0	Roadway/Open Space	-	-	0.02
1459	669399.0	4280475.0	Roadway/Open Space	-	-	0.02
1460	669409.0	4280475.0	Roadway/Open Space	-	-	0.02
1461	669419.0	4280475.0	Roadway/Open Space	-	-	0.02
1462	669429.0	4280475.0	Roadway/Open Space	-	-	0.02
1463	669439.0	4280475.0	Roadway/Open Space	-	-	0.02
1464	669449.0	4280475.0	Roadway/Open Space	-	-	0.01
1465	669459.0	4280475.0	Roadway/Open Space	-	-	0.01
1466	669469.0	4280475.0	Roadway/Open Space	-	-	0.01
1467	669479.0	4280475.0	Roadway/Open Space	-	-	0.01
1468	669489.0	4280475.0	Roadway/Open Space	-	-	0.02
1469	668659.0	4280485.0	Roadway/Open Space	-	-	0.02
1470	668669.0	4280485.0	Roadway/Open Space	-	-	0.02
1471	668679.0	4280485.0	Roadway/Open Space	-	-	0.02
1472	668689.0	4280485.0	Roadway/Open Space	-	-	0.02
1473	668699.0	4280485.0	Roadway/Open Space	-	-	0.02
1474	668709.0	4280485.0	Roadway/Open Space	-	-	0.02
1475	668719.0	4280485.0	Roadway/Open Space	-	-	0.02
1476	668729.0	4280485.0	Roadway/Open Space	-	-	0.02
1477	668739.0	4280485.0	Roadway/Open Space	-	-	0.02
1478	668749.0	4280485.0	Roadway/Open Space	-	-	0.02
1479	668759.0	4280485.0	Roadway/Open Space	-	-	0.02
1480	668769.0	4280485.0	Roadway/Open Space	-	-	0.02
1481	668779.0	4280485.0	Roadway/Open Space	-	-	0.02
1482	668789.0	4280485.0	Roadway/Open Space	-	-	0.02
1483	668799.0	4280485.0	Roadway/Open Space	-	-	0.02
1484	668809.0	4280485.0	Roadway/Open Space	-	-	0.02
1485	668819.0	4280485.0	Roadway/Open Space	-	-	0.02
1486	668829.0	4280485.0	Roadway/Open Space	-	-	0.02
1487	668839.0	4280485.0	Roadway/Open Space	-	-	0.02
1488	668849.0	4280485.0	Roadway/Open Space	-	-	0.02
1489	668859.0	4280485.0	Roadway/Open Space	-	-	0.02
1490	668869.0	4280485.0	Roadway/Open Space	-	-	0.02
1491	668879.0	4280485.0	Roadway/Open Space	-	-	0.02
1492	668889.0	4280485.0	Roadway/Open Space	-	-	0.02
1493	668899.0	4280485.0	Roadway/Open Space	-	-	0.02
1494	668909.0	4280485.0	Roadway/Open Space	-	-	0.02
1495	668919.0	4280485.0	Roadway/Open Space	-	-	0.02
1496	668929.0	4280485.0	Roadway/Open Space	-	-	0.02
1497	668939.0	4280485.0	Roadway/Open Space	-	-	0.02
1498	668949.0	4280485.0	Roadway/Open Space	-	-	0.02
1499	668959.0	4280485.0	Roadway/Open Space	-	-	0.02
1500	668969.0	4280485.0	Roadway/Open Space	-	-	0.02
1501	668979.0	4280485.0	Roadway/Open Space	-	-	0.02
1502	668989.0	4280485.0	Roadway/Open Space	-	-	0.02
1503	668999.0	4280485.0	Roadway/Open Space	-	-	0.02
1504	669009.0	4280485.0	Roadway/Open Space	-	-	0.02
1505	669019.0	4280485.0	Roadway/Open Space	-	-	0.02
1506	669029.0	4280485.0	Roadway/Open Space	-	-	0.02
1507	669039.0	4280485.0	Roadway/Open Space	-	-	0.02
1508	669049.0	4280485.0	Roadway/Open Space	-	-	0.02
1509	669059.0	4280485.0	Roadway/Open Space	-	-	0.02
1510	669069.0	4280485.0	Roadway/Open Space	-	-	0.02
1511	669079.0	4280485.0	Roadway/Open Space	-	-	0.02
1512	669089.0	4280485.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1513	669099.0	4280485.0	Roadway/Open Space	-	-	0.02
1514	669109.0	4280485.0	Roadway/Open Space	-	-	0.02
1515	669119.0	4280485.0	Roadway/Open Space	-	-	0.02
1516	669129.0	4280485.0	Roadway/Open Space	-	-	0.02
1517	669139.0	4280485.0	Roadway/Open Space	-	-	0.02
1518	669149.0	4280485.0	Roadway/Open Space	-	-	0.02
1519	669159.0	4280485.0	Roadway/Open Space	-	-	0.02
1520	669169.0	4280485.0	Roadway/Open Space	-	-	0.02
1521	669179.0	4280485.0	Roadway/Open Space	-	-	0.02
1522	669189.0	4280485.0	Roadway/Open Space	-	-	0.02
1523	669199.0	4280485.0	Roadway/Open Space	-	-	0.02
1524	669209.0	4280485.0	Roadway/Open Space	-	-	0.02
1525	669219.0	4280485.0	Roadway/Open Space	-	-	0.02
1526	669229.0	4280485.0	Roadway/Open Space	-	-	0.02
1527	669239.0	4280485.0	Roadway/Open Space	-	-	0.02
1528	669249.0	4280485.0	Roadway/Open Space	-	-	0.02
1529	669259.0	4280485.0	Roadway/Open Space	-	-	0.02
1530	669269.0	4280485.0	Roadway/Open Space	-	-	0.02
1531	669279.0	4280485.0	Roadway/Open Space	-	-	0.02
1532	669289.0	4280485.0	Roadway/Open Space	-	-	0.02
1533	669299.0	4280485.0	Roadway/Open Space	-	-	0.02
1534	669309.0	4280485.0	Roadway/Open Space	-	-	0.02
1535	669319.0	4280485.0	Roadway/Open Space	-	-	0.02
1536	669329.0	4280485.0	Roadway/Open Space	-	-	0.02
1537	669339.0	4280485.0	Roadway/Open Space	-	-	0.02
1538	669349.0	4280485.0	Roadway/Open Space	-	-	0.02
1539	669359.0	4280485.0	Roadway/Open Space	-	-	0.02
1540	669369.0	4280485.0	Roadway/Open Space	-	-	0.02
1541	669379.0	4280485.0	Roadway/Open Space	-	-	0.02
1542	669389.0	4280485.0	Roadway/Open Space	-	-	0.02
1543	669399.0	4280485.0	Roadway/Open Space	-	-	0.02
1544	669409.0	4280485.0	Roadway/Open Space	-	-	0.02
1545	669419.0	4280485.0	Roadway/Open Space	-	-	0.02
1546	669429.0	4280485.0	Roadway/Open Space	-	-	0.02
1547	669439.0	4280485.0	Roadway/Open Space	-	-	0.02
1548	669449.0	4280485.0	Roadway/Open Space	-	-	0.02
1549	669459.0	4280485.0	Roadway/Open Space	-	-	0.02
1550	669469.0	4280485.0	Roadway/Open Space	-	-	0.01
1551	669479.0	4280485.0	Roadway/Open Space	-	-	0.02
1552	669489.0	4280485.0	Roadway/Open Space	-	-	0.02
1553	669499.0	4280485.0	Roadway/Open Space	-	-	0.02
1554	668659.0	4280495.0	Roadway/Open Space	-	-	0.02
1555	668669.0	4280495.0	Roadway/Open Space	-	-	0.02
1556	668679.0	4280495.0	Roadway/Open Space	-	-	0.02
1557	668689.0	4280495.0	Roadway/Open Space	-	-	0.02
1558	668699.0	4280495.0	Roadway/Open Space	-	-	0.02
1559	668709.0	4280495.0	Roadway/Open Space	-	-	0.02
1560	668719.0	4280495.0	Roadway/Open Space	-	-	0.02
1561	668729.0	4280495.0	Roadway/Open Space	-	-	0.02
1562	668739.0	4280495.0	Roadway/Open Space	-	-	0.02
1563	668749.0	4280495.0	Roadway/Open Space	-	-	0.02
1564	668759.0	4280495.0	Roadway/Open Space	-	-	0.02
1565	668769.0	4280495.0	Roadway/Open Space	-	-	0.02
1566	668779.0	4280495.0	Roadway/Open Space	-	-	0.02
1567	668789.0	4280495.0	Roadway/Open Space	-	-	0.02
1568	668799.0	4280495.0	Roadway/Open Space	-	-	0.02
1569	668809.0	4280495.0	Roadway/Open Space	-	-	0.02
1570	668819.0	4280495.0	Roadway/Open Space	-	-	0.02
1571	668829.0	4280495.0	Roadway/Open Space	-	-	0.02
1572	668839.0	4280495.0	Roadway/Open Space	-	-	0.02
1573	668849.0	4280495.0	Roadway/Open Space	-	-	0.02
1574	668859.0	4280495.0	Roadway/Open Space	-	-	0.02
1575	668869.0	4280495.0	Roadway/Open Space	-	-	0.02
1576	668879.0	4280495.0	Roadway/Open Space	-	-	0.02
1577	668889.0	4280495.0	Roadway/Open Space	-	-	0.02
1578	668899.0	4280495.0	Roadway/Open Space	-	-	0.02
1579	668909.0	4280495.0	Roadway/Open Space	-	-	0.02
1580	668919.0	4280495.0	Roadway/Open Space	-	-	0.02
1581	668929.0	4280495.0	Roadway/Open Space	-	-	0.02
1582	668939.0	4280495.0	Roadway/Open Space	-	-	0.02
1583	668949.0	4280495.0	Roadway/Open Space	-	-	0.02
1584	668959.0	4280495.0	Roadway/Open Space	-	-	0.02
1585	668969.0	4280495.0	Roadway/Open Space	-	-	0.02
1586	668979.0	4280495.0	Roadway/Open Space	-	-	0.02
1587	668989.0	4280495.0	Roadway/Open Space	-	-	0.02
1588	668999.0	4280495.0	Roadway/Open Space	-	-	0.02
1589	669009.0	4280495.0	Roadway/Open Space	-	-	0.02
1590	669019.0	4280495.0	Roadway/Open Space	-	-	0.02
1591	669029.0	4280495.0	Roadway/Open Space	-	-	0.02
1592	669039.0	4280495.0	Roadway/Open Space	-	-	0.02
1593	669049.0	4280495.0	Roadway/Open Space	-	-	0.02
1594	669059.0	4280495.0	Roadway/Open Space	-	-	0.02
1595	669069.0	4280495.0	Roadway/Open Space	-	-	0.02
1596	669079.0	4280495.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1597	669089.0	4280495.0	Roadway/Open Space	-	-	0.02
1598	669099.0	4280495.0	Roadway/Open Space	-	-	0.02
1599	669109.0	4280495.0	Roadway/Open Space	-	-	0.02
1600	669119.0	4280495.0	Roadway/Open Space	-	-	0.02
1601	669129.0	4280495.0	Roadway/Open Space	-	-	0.02
1602	669139.0	4280495.0	Roadway/Open Space	-	-	0.02
1603	669149.0	4280495.0	Roadway/Open Space	-	-	0.02
1604	669159.0	4280495.0	Roadway/Open Space	-	-	0.02
1605	669169.0	4280495.0	Roadway/Open Space	-	-	0.02
1606	669179.0	4280495.0	Roadway/Open Space	-	-	0.02
1607	669189.0	4280495.0	Roadway/Open Space	-	-	0.02
1608	669199.0	4280495.0	Roadway/Open Space	-	-	0.02
1609	669209.0	4280495.0	Roadway/Open Space	-	-	0.02
1610	669219.0	4280495.0	Roadway/Open Space	-	-	0.02
1611	669229.0	4280495.0	Roadway/Open Space	-	-	0.02
1612	669239.0	4280495.0	Roadway/Open Space	-	-	0.02
1613	669249.0	4280495.0	Roadway/Open Space	-	-	0.02
1614	669259.0	4280495.0	Roadway/Open Space	-	-	0.02
1615	669269.0	4280495.0	Roadway/Open Space	-	-	0.02
1616	669279.0	4280495.0	Roadway/Open Space	-	-	0.02
1617	669289.0	4280495.0	Roadway/Open Space	-	-	0.02
1618	669299.0	4280495.0	Roadway/Open Space	-	-	0.02
1619	669309.0	4280495.0	Roadway/Open Space	-	-	0.02
1620	669319.0	4280495.0	Roadway/Open Space	-	-	0.02
1621	669329.0	4280495.0	Roadway/Open Space	-	-	0.02
1622	669339.0	4280495.0	Roadway/Open Space	-	-	0.02
1623	669349.0	4280495.0	Roadway/Open Space	-	-	0.02
1624	669359.0	4280495.0	Roadway/Open Space	-	-	0.02
1625	669369.0	4280495.0	Roadway/Open Space	-	-	0.02
1626	669379.0	4280495.0	Roadway/Open Space	-	-	0.02
1627	669389.0	4280495.0	Roadway/Open Space	-	-	0.02
1628	669399.0	4280495.0	Roadway/Open Space	-	-	0.02
1629	669409.0	4280495.0	Roadway/Open Space	-	-	0.02
1630	669419.0	4280495.0	Roadway/Open Space	-	-	0.02
1631	669429.0	4280495.0	Roadway/Open Space	-	-	0.02
1632	669439.0	4280495.0	Roadway/Open Space	-	-	0.02
1633	669449.0	4280495.0	Roadway/Open Space	-	-	0.02
1634	669459.0	4280495.0	Roadway/Open Space	-	-	0.02
1635	669469.0	4280495.0	Roadway/Open Space	-	-	0.02
1636	669479.0	4280495.0	Roadway/Open Space	-	-	0.02
1637	669489.0	4280495.0	Roadway/Open Space	-	-	0.02
1638	669499.0	4280495.0	Roadway/Open Space	-	-	0.02
1639	669509.0	4280495.0	Roadway/Open Space	-	-	0.02
1640	668649.0	4280505.0	Roadway/Open Space	-	-	0.02
1641	668659.0	4280505.0	Roadway/Open Space	-	-	0.02
1642	668669.0	4280505.0	Roadway/Open Space	-	-	0.02
1643	668679.0	4280505.0	Roadway/Open Space	-	-	0.02
1644	668689.0	4280505.0	Roadway/Open Space	-	-	0.02
1645	668699.0	4280505.0	Roadway/Open Space	-	-	0.02
1646	668709.0	4280505.0	Roadway/Open Space	-	-	0.02
1647	668719.0	4280505.0	Roadway/Open Space	-	-	0.02
1648	668729.0	4280505.0	Roadway/Open Space	-	-	0.02
1649	668739.0	4280505.0	Roadway/Open Space	-	-	0.02
1650	668749.0	4280505.0	Roadway/Open Space	-	-	0.02
1651	668759.0	4280505.0	Roadway/Open Space	-	-	0.02
1652	668769.0	4280505.0	Roadway/Open Space	-	-	0.02
1653	668779.0	4280505.0	Roadway/Open Space	-	-	0.02
1654	668789.0	4280505.0	Roadway/Open Space	-	-	0.02
1655	668799.0	4280505.0	Roadway/Open Space	-	-	0.02
1656	668809.0	4280505.0	Roadway/Open Space	-	-	0.02
1657	668819.0	4280505.0	Roadway/Open Space	-	-	0.02
1658	668829.0	4280505.0	Roadway/Open Space	-	-	0.02
1659	668839.0	4280505.0	Roadway/Open Space	-	-	0.02
1660	668849.0	4280505.0	Roadway/Open Space	-	-	0.02
1661	668859.0	4280505.0	Roadway/Open Space	-	-	0.02
1662	668869.0	4280505.0	Roadway/Open Space	-	-	0.02
1663	668879.0	4280505.0	Roadway/Open Space	-	-	0.02
1664	668889.0	4280505.0	Roadway/Open Space	-	-	0.02
1665	668899.0	4280505.0	Roadway/Open Space	-	-	0.02
1666	668909.0	4280505.0	Roadway/Open Space	-	-	0.02
1667	668919.0	4280505.0	Roadway/Open Space	-	-	0.02
1668	668929.0	4280505.0	Roadway/Open Space	-	-	0.02
1669	668939.0	4280505.0	Roadway/Open Space	-	-	0.02
1670	668949.0	4280505.0	Roadway/Open Space	-	-	0.02
1671	668959.0	4280505.0	Roadway/Open Space	-	-	0.02
1672	668969.0	4280505.0	Roadway/Open Space	-	-	0.02
1673	668979.0	4280505.0	Roadway/Open Space	-	-	0.02
1674	668989.0	4280505.0	Roadway/Open Space	-	-	0.02
1675	668999.0	4280505.0	Roadway/Open Space	-	-	0.02
1676	669009.0	4280505.0	Roadway/Open Space	-	-	0.02
1677	669019.0	4280505.0	Roadway/Open Space	-	-	0.02
1678	669029.0	4280505.0	Roadway/Open Space	-	-	0.02
1679	669039.0	4280505.0	Roadway/Open Space	-	-	0.02
1680	669049.0	4280505.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1681	669059.0	4280505.0	Roadway/Open Space	-	-	0.02
1682	669069.0	4280505.0	Roadway/Open Space	-	-	0.02
1683	669079.0	4280505.0	Roadway/Open Space	-	-	0.02
1684	669089.0	4280505.0	Roadway/Open Space	-	-	0.02
1685	669099.0	4280505.0	Roadway/Open Space	-	-	0.02
1686	669109.0	4280505.0	Roadway/Open Space	-	-	0.02
1687	669119.0	4280505.0	Roadway/Open Space	-	-	0.02
1688	669129.0	4280505.0	Roadway/Open Space	-	-	0.02
1689	669139.0	4280505.0	Roadway/Open Space	-	-	0.02
1690	669149.0	4280505.0	Roadway/Open Space	-	-	0.02
1691	669159.0	4280505.0	Roadway/Open Space	-	-	0.02
1692	669169.0	4280505.0	Roadway/Open Space	-	-	0.02
1693	669179.0	4280505.0	Roadway/Open Space	-	-	0.02
1694	669189.0	4280505.0	Roadway/Open Space	-	-	0.02
1695	669199.0	4280505.0	Roadway/Open Space	-	-	0.02
1696	669209.0	4280505.0	Roadway/Open Space	-	-	0.02
1697	669219.0	4280505.0	Roadway/Open Space	-	-	0.02
1698	669229.0	4280505.0	Roadway/Open Space	-	-	0.02
1699	669239.0	4280505.0	Roadway/Open Space	-	-	0.02
1700	669249.0	4280505.0	Roadway/Open Space	-	-	0.02
1701	669259.0	4280505.0	Roadway/Open Space	-	-	0.02
1702	669269.0	4280505.0	Roadway/Open Space	-	-	0.02
1703	669279.0	4280505.0	Roadway/Open Space	-	-	0.02
1704	669289.0	4280505.0	Roadway/Open Space	-	-	0.02
1705	669299.0	4280505.0	Roadway/Open Space	-	-	0.02
1706	669309.0	4280505.0	Roadway/Open Space	-	-	0.02
1707	669319.0	4280505.0	Roadway/Open Space	-	-	0.02
1708	669329.0	4280505.0	Roadway/Open Space	-	-	0.02
1709	669339.0	4280505.0	Roadway/Open Space	-	-	0.02
1710	669349.0	4280505.0	Roadway/Open Space	-	-	0.02
1711	669359.0	4280505.0	Roadway/Open Space	-	-	0.02
1712	669369.0	4280505.0	Roadway/Open Space	-	-	0.02
1713	669379.0	4280505.0	Roadway/Open Space	-	-	0.02
1714	669389.0	4280505.0	Roadway/Open Space	-	-	0.02
1715	669399.0	4280505.0	Roadway/Open Space	-	-	0.02
1716	669409.0	4280505.0	Roadway/Open Space	-	-	0.02
1717	669419.0	4280505.0	Roadway/Open Space	-	-	0.02
1718	669429.0	4280505.0	Roadway/Open Space	-	-	0.02
1719	669439.0	4280505.0	Roadway/Open Space	-	-	0.02
1720	669449.0	4280505.0	Roadway/Open Space	-	-	0.02
1721	669459.0	4280505.0	Roadway/Open Space	-	-	0.02
1722	669469.0	4280505.0	Roadway/Open Space	-	-	0.02
1723	669479.0	4280505.0	Roadway/Open Space	-	-	0.02
1724	669489.0	4280505.0	Roadway/Open Space	-	-	0.02
1725	669499.0	4280505.0	Roadway/Open Space	-	-	0.02
1726	669509.0	4280505.0	Roadway/Open Space	-	-	0.02
1727	669519.0	4280505.0	Roadway/Open Space	-	-	0.02
1728	668649.0	4280515.0	Roadway/Open Space	-	-	0.02
1729	668659.0	4280515.0	Roadway/Open Space	-	-	0.02
1730	668669.0	4280515.0	Roadway/Open Space	-	-	0.02
1731	668679.0	4280515.0	Roadway/Open Space	-	-	0.02
1732	668689.0	4280515.0	Roadway/Open Space	-	-	0.02
1733	668699.0	4280515.0	Roadway/Open Space	-	-	0.02
1734	668709.0	4280515.0	Roadway/Open Space	-	-	0.02
1735	668719.0	4280515.0	Roadway/Open Space	-	-	0.02
1736	668729.0	4280515.0	Roadway/Open Space	-	-	0.02
1737	668739.0	4280515.0	Roadway/Open Space	-	-	0.02
1738	668749.0	4280515.0	Roadway/Open Space	-	-	0.02
1739	668759.0	4280515.0	Roadway/Open Space	-	-	0.02
1740	668769.0	4280515.0	Roadway/Open Space	-	-	0.02
1741	668779.0	4280515.0	Roadway/Open Space	-	-	0.02
1742	668789.0	4280515.0	Roadway/Open Space	-	-	0.02
1743	668799.0	4280515.0	Roadway/Open Space	-	-	0.02
1744	668809.0	4280515.0	Roadway/Open Space	-	-	0.02
1745	668819.0	4280515.0	Roadway/Open Space	-	-	0.02
1746	668829.0	4280515.0	Roadway/Open Space	-	-	0.02
1747	668839.0	4280515.0	Roadway/Open Space	-	-	0.02
1748	668849.0	4280515.0	Roadway/Open Space	-	-	0.02
1749	668859.0	4280515.0	Roadway/Open Space	-	-	0.02
1750	668869.0	4280515.0	Roadway/Open Space	-	-	0.02
1751	668879.0	4280515.0	Roadway/Open Space	-	-	0.02
1752	668889.0	4280515.0	Roadway/Open Space	-	-	0.02
1753	668899.0	4280515.0	Roadway/Open Space	-	-	0.02
1754	668909.0	4280515.0	Roadway/Open Space	-	-	0.02
1755	668919.0	4280515.0	Roadway/Open Space	-	-	0.02
1756	668929.0	4280515.0	Roadway/Open Space	-	-	0.02
1757	668939.0	4280515.0	Roadway/Open Space	-	-	0.02
1758	668949.0	4280515.0	Roadway/Open Space	-	-	0.02
1759	668959.0	4280515.0	Roadway/Open Space	-	-	0.02
1760	668969.0	4280515.0	Roadway/Open Space	-	-	0.02
1761	668979.0	4280515.0	Roadway/Open Space	-	-	0.02
1762	668989.0	4280515.0	Roadway/Open Space	-	-	0.02
1763	668999.0	4280515.0	Roadway/Open Space	-	-	0.03
1764	669009.0	4280515.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1765	669019.0	4280515.0	Roadway/Open Space	-	-	0.03
1766	669029.0	4280515.0	Roadway/Open Space	-	-	0.03
1767	669039.0	4280515.0	Roadway/Open Space	-	-	0.03
1768	669049.0	4280515.0	Roadway/Open Space	-	-	0.03
1769	669059.0	4280515.0	Roadway/Open Space	-	-	0.02
1770	669069.0	4280515.0	Roadway/Open Space	-	-	0.02
1771	669079.0	4280515.0	Roadway/Open Space	-	-	0.02
1772	669089.0	4280515.0	Roadway/Open Space	-	-	0.02
1773	669099.0	4280515.0	Roadway/Open Space	-	-	0.02
1774	669109.0	4280515.0	Roadway/Open Space	-	-	0.02
1775	669119.0	4280515.0	Roadway/Open Space	-	-	0.02
1776	669129.0	4280515.0	Roadway/Open Space	-	-	0.02
1777	669139.0	4280515.0	Roadway/Open Space	-	-	0.02
1778	669149.0	4280515.0	Roadway/Open Space	-	-	0.02
1779	669159.0	4280515.0	Roadway/Open Space	-	-	0.02
1780	669169.0	4280515.0	Roadway/Open Space	-	-	0.02
1781	669179.0	4280515.0	Roadway/Open Space	-	-	0.02
1782	669189.0	4280515.0	Roadway/Open Space	-	-	0.02
1783	669199.0	4280515.0	Roadway/Open Space	-	-	0.02
1784	669209.0	4280515.0	Roadway/Open Space	-	-	0.02
1785	669219.0	4280515.0	Roadway/Open Space	-	-	0.02
1786	669229.0	4280515.0	Roadway/Open Space	-	-	0.02
1787	669239.0	4280515.0	Roadway/Open Space	-	-	0.02
1788	669249.0	4280515.0	Roadway/Open Space	-	-	0.03
1789	669259.0	4280515.0	Roadway/Open Space	-	-	0.03
1790	669269.0	4280515.0	Roadway/Open Space	-	-	0.03
1791	669279.0	4280515.0	Roadway/Open Space	-	-	0.03
1792	669289.0	4280515.0	Roadway/Open Space	-	-	0.02
1793	669299.0	4280515.0	Roadway/Open Space	-	-	0.02
1794	669309.0	4280515.0	Roadway/Open Space	-	-	0.03
1795	669319.0	4280515.0	Roadway/Open Space	-	-	0.03
1796	669329.0	4280515.0	Roadway/Open Space	-	-	0.03
1797	669339.0	4280515.0	Roadway/Open Space	-	-	0.02
1798	669349.0	4280515.0	Roadway/Open Space	-	-	0.02
1799	669359.0	4280515.0	Roadway/Open Space	-	-	0.02
1800	669369.0	4280515.0	Roadway/Open Space	-	-	0.02
1801	669379.0	4280515.0	Roadway/Open Space	-	-	0.02
1802	669389.0	4280515.0	Roadway/Open Space	-	-	0.02
1803	669399.0	4280515.0	Roadway/Open Space	-	-	0.02
1804	669409.0	4280515.0	Roadway/Open Space	-	-	0.02
1805	669419.0	4280515.0	Roadway/Open Space	-	-	0.02
1806	669429.0	4280515.0	Roadway/Open Space	-	-	0.02
1807	669439.0	4280515.0	Roadway/Open Space	-	-	0.02
1808	669449.0	4280515.0	Roadway/Open Space	-	-	0.02
1809	669459.0	4280515.0	Roadway/Open Space	-	-	0.02
1810	669469.0	4280515.0	Roadway/Open Space	-	-	0.02
1811	669479.0	4280515.0	Roadway/Open Space	-	-	0.02
1812	669489.0	4280515.0	Roadway/Open Space	-	-	0.02
1813	669499.0	4280515.0	Roadway/Open Space	-	-	0.02
1814	669509.0	4280515.0	Roadway/Open Space	-	-	0.02
1815	669519.0	4280515.0	Roadway/Open Space	-	-	0.02
1816	669529.0	4280515.0	Roadway/Open Space	-	-	0.02
1817	668649.0	4280525.0	Roadway/Open Space	-	-	0.02
1818	668659.0	4280525.0	Roadway/Open Space	-	-	0.02
1819	668669.0	4280525.0	Roadway/Open Space	-	-	0.02
1820	668679.0	4280525.0	Roadway/Open Space	-	-	0.02
1821	668689.0	4280525.0	Roadway/Open Space	-	-	0.02
1822	668699.0	4280525.0	Roadway/Open Space	-	-	0.02
1823	668709.0	4280525.0	Roadway/Open Space	-	-	0.02
1824	668719.0	4280525.0	Roadway/Open Space	-	-	0.02
1825	668729.0	4280525.0	Roadway/Open Space	-	-	0.02
1826	668739.0	4280525.0	Roadway/Open Space	-	-	0.02
1827	668749.0	4280525.0	Roadway/Open Space	-	-	0.02
1828	668759.0	4280525.0	Roadway/Open Space	-	-	0.02
1829	668769.0	4280525.0	Roadway/Open Space	-	-	0.02
1830	668779.0	4280525.0	Roadway/Open Space	-	-	0.02
1831	668789.0	4280525.0	Roadway/Open Space	-	-	0.02
1832	668799.0	4280525.0	Roadway/Open Space	-	-	0.02
1833	668809.0	4280525.0	Roadway/Open Space	-	-	0.02
1834	668819.0	4280525.0	Roadway/Open Space	-	-	0.02
1835	668829.0	4280525.0	Roadway/Open Space	-	-	0.02
1836	668839.0	4280525.0	Roadway/Open Space	-	-	0.02
1837	668849.0	4280525.0	Roadway/Open Space	-	-	0.02
1838	668859.0	4280525.0	Roadway/Open Space	-	-	0.02
1839	668869.0	4280525.0	Roadway/Open Space	-	-	0.02
1840	668879.0	4280525.0	Roadway/Open Space	-	-	0.02
1841	668889.0	4280525.0	Roadway/Open Space	-	-	0.02
1842	668899.0	4280525.0	Roadway/Open Space	-	-	0.02
1843	668909.0	4280525.0	Roadway/Open Space	-	-	0.02
1844	668919.0	4280525.0	Roadway/Open Space	-	-	0.02
1845	668929.0	4280525.0	Roadway/Open Space	-	-	0.02
1846	668939.0	4280525.0	Roadway/Open Space	-	-	0.02
1847	668949.0	4280525.0	Roadway/Open Space	-	-	0.02
1848	668959.0	4280525.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1849	668969.0	4280525.0	Roadway/Open Space	-	-	0.03
1850	668979.0	4280525.0	Roadway/Open Space	-	-	0.03
1851	668989.0	4280525.0	Roadway/Open Space	-	-	0.03
1852	668999.0	4280525.0	Roadway/Open Space	-	-	0.03
1853	669009.0	4280525.0	Roadway/Open Space	-	-	0.03
1854	669019.0	4280525.0	Roadway/Open Space	-	-	0.03
1855	669029.0	4280525.0	Roadway/Open Space	-	-	0.03
1856	669039.0	4280525.0	Roadway/Open Space	-	-	0.03
1857	669049.0	4280525.0	Roadway/Open Space	-	-	0.03
1858	669059.0	4280525.0	Roadway/Open Space	-	-	0.03
1859	669069.0	4280525.0	Roadway/Open Space	-	-	0.03
1860	669079.0	4280525.0	Roadway/Open Space	-	-	0.02
1861	669089.0	4280525.0	Roadway/Open Space	-	-	0.02
1862	669099.0	4280525.0	Roadway/Open Space	-	-	0.02
1863	669109.0	4280525.0	Roadway/Open Space	-	-	0.02
1864	669119.0	4280525.0	Roadway/Open Space	-	-	0.02
1865	669129.0	4280525.0	Roadway/Open Space	-	-	0.02
1866	669139.0	4280525.0	Roadway/Open Space	-	-	0.02
1867	669149.0	4280525.0	Roadway/Open Space	-	-	0.02
1868	669159.0	4280525.0	Roadway/Open Space	-	-	0.02
1869	669169.0	4280525.0	Roadway/Open Space	-	-	0.02
1870	669179.0	4280525.0	Roadway/Open Space	-	-	0.02
1871	669189.0	4280525.0	Roadway/Open Space	-	-	0.02
1872	669199.0	4280525.0	Roadway/Open Space	-	-	0.02
1873	669209.0	4280525.0	Roadway/Open Space	-	-	0.02
1874	669219.0	4280525.0	Roadway/Open Space	-	-	0.02
1875	669229.0	4280525.0	Roadway/Open Space	-	-	0.03
1876	669239.0	4280525.0	Roadway/Open Space	-	-	0.03
1877	669249.0	4280525.0	Roadway/Open Space	-	-	0.03
1878	669259.0	4280525.0	Roadway/Open Space	-	-	0.03
1879	669269.0	4280525.0	Roadway/Open Space	-	-	0.03
1880	669279.0	4280525.0	Roadway/Open Space	-	-	0.03
1881	669289.0	4280525.0	Roadway/Open Space	-	-	0.03
1882	669299.0	4280525.0	Roadway/Open Space	-	-	0.03
1883	669309.0	4280525.0	Roadway/Open Space	-	-	0.03
1884	669319.0	4280525.0	Roadway/Open Space	-	-	0.03
1885	669329.0	4280525.0	Roadway/Open Space	-	-	0.03
1886	669339.0	4280525.0	Roadway/Open Space	-	-	0.03
1887	669349.0	4280525.0	Roadway/Open Space	-	-	0.02
1888	669359.0	4280525.0	Roadway/Open Space	-	-	0.02
1889	669369.0	4280525.0	Roadway/Open Space	-	-	0.02
1890	669379.0	4280525.0	Roadway/Open Space	-	-	0.02
1891	669389.0	4280525.0	Roadway/Open Space	-	-	0.02
1892	669399.0	4280525.0	Roadway/Open Space	-	-	0.02
1893	669409.0	4280525.0	Roadway/Open Space	-	-	0.02
1894	669419.0	4280525.0	Roadway/Open Space	-	-	0.02
1895	669429.0	4280525.0	Roadway/Open Space	-	-	0.02
1896	669439.0	4280525.0	Roadway/Open Space	-	-	0.02
1897	669449.0	4280525.0	Roadway/Open Space	-	-	0.02
1898	669459.0	4280525.0	Roadway/Open Space	-	-	0.02
1899	669469.0	4280525.0	Roadway/Open Space	-	-	0.02
1900	669479.0	4280525.0	Roadway/Open Space	-	-	0.02
1901	669489.0	4280525.0	Roadway/Open Space	-	-	0.02
1902	669499.0	4280525.0	Roadway/Open Space	-	-	0.02
1903	669509.0	4280525.0	Roadway/Open Space	-	-	0.02
1904	669519.0	4280525.0	Roadway/Open Space	-	-	0.02
1905	669529.0	4280525.0	Roadway/Open Space	-	-	0.02
1906	669539.0	4280525.0	Roadway/Open Space	-	-	0.02
1907	668639.0	4280535.0	Roadway/Open Space	-	-	0.02
1908	668649.0	4280535.0	Roadway/Open Space	-	-	0.02
1909	668659.0	4280535.0	Roadway/Open Space	-	-	0.02
1910	668669.0	4280535.0	Roadway/Open Space	-	-	0.02
1911	668679.0	4280535.0	Roadway/Open Space	-	-	0.02
1912	668689.0	4280535.0	Roadway/Open Space	-	-	0.02
1913	668699.0	4280535.0	Roadway/Open Space	-	-	0.02
1914	668709.0	4280535.0	Roadway/Open Space	-	-	0.02
1915	668719.0	4280535.0	Roadway/Open Space	-	-	0.02
1916	668729.0	4280535.0	Roadway/Open Space	-	-	0.02
1917	668739.0	4280535.0	Roadway/Open Space	-	-	0.02
1918	668749.0	4280535.0	Roadway/Open Space	-	-	0.02
1919	668759.0	4280535.0	Roadway/Open Space	-	-	0.02
1920	668769.0	4280535.0	Roadway/Open Space	-	-	0.02
1921	668779.0	4280535.0	Roadway/Open Space	-	-	0.02
1922	668789.0	4280535.0	Roadway/Open Space	-	-	0.02
1923	668799.0	4280535.0	Roadway/Open Space	-	-	0.02
1924	668809.0	4280535.0	Roadway/Open Space	-	-	0.02
1925	668819.0	4280535.0	Roadway/Open Space	-	-	0.02
1926	668829.0	4280535.0	Roadway/Open Space	-	-	0.02
1927	668839.0	4280535.0	Roadway/Open Space	-	-	0.02
1928	668849.0	4280535.0	Roadway/Open Space	-	-	0.02
1929	668859.0	4280535.0	Roadway/Open Space	-	-	0.02
1930	668869.0	4280535.0	Roadway/Open Space	-	-	0.02
1931	668879.0	4280535.0	Roadway/Open Space	-	-	0.02
1932	668889.0	4280535.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
1933	668899.0	4280535.0	Roadway/Open Space	-	-	0.02
1934	668909.0	4280535.0	Roadway/Open Space	-	-	0.02
1935	668919.0	4280535.0	Roadway/Open Space	-	-	0.02
1936	668929.0	4280535.0	Roadway/Open Space	-	-	0.02
1937	668939.0	4280535.0	Roadway/Open Space	-	-	0.02
1938	668949.0	4280535.0	Roadway/Open Space	-	-	0.03
1939	668959.0	4280535.0	Roadway/Open Space	-	-	0.03
1940	668969.0	4280535.0	Roadway/Open Space	-	-	0.03
1941	668979.0	4280535.0	Roadway/Open Space	-	-	0.03
1942	668989.0	4280535.0	Roadway/Open Space	-	-	0.03
1943	668999.0	4280535.0	Roadway/Open Space	-	-	0.03
1944	669009.0	4280535.0	Roadway/Open Space	-	-	0.03
1945	669019.0	4280535.0	Roadway/Open Space	-	-	0.03
1946	669029.0	4280535.0	Roadway/Open Space	-	-	0.03
1947	669039.0	4280535.0	Roadway/Open Space	-	-	0.03
1948	669049.0	4280535.0	Roadway/Open Space	-	-	0.03
1949	669059.0	4280535.0	Roadway/Open Space	-	-	0.03
1950	669069.0	4280535.0	Roadway/Open Space	-	-	0.03
1951	669079.0	4280535.0	Roadway/Open Space	-	-	0.03
1952	669089.0	4280535.0	Roadway/Open Space	-	-	0.03
1953	669099.0	4280535.0	Roadway/Open Space	-	-	0.02
1954	669109.0	4280535.0	Roadway/Open Space	-	-	0.02
1955	669119.0	4280535.0	Roadway/Open Space	-	-	0.02
1956	669129.0	4280535.0	Roadway/Open Space	-	-	0.02
1957	669139.0	4280535.0	Roadway/Open Space	-	-	0.02
1958	669149.0	4280535.0	Roadway/Open Space	-	-	0.02
1959	669159.0	4280535.0	Roadway/Open Space	-	-	0.03
1960	669169.0	4280535.0	Roadway/Open Space	-	-	0.03
1961	669179.0	4280535.0	Roadway/Open Space	-	-	0.03
1962	669189.0	4280535.0	Roadway/Open Space	-	-	0.03
1963	669199.0	4280535.0	Roadway/Open Space	-	-	0.03
1964	669209.0	4280535.0	Roadway/Open Space	-	-	0.03
1965	669219.0	4280535.0	Roadway/Open Space	-	-	0.03
1966	669229.0	4280535.0	Roadway/Open Space	-	-	0.03
1967	669239.0	4280535.0	Roadway/Open Space	-	-	0.03
1968	669249.0	4280535.0	Roadway/Open Space	-	-	0.03
1969	669259.0	4280535.0	Roadway/Open Space	-	-	0.03
1970	669269.0	4280535.0	Roadway/Open Space	-	-	0.03
1971	669279.0	4280535.0	Roadway/Open Space	-	-	0.03
1972	669289.0	4280535.0	Roadway/Open Space	-	-	0.03
1973	669299.0	4280535.0	Roadway/Open Space	-	-	0.03
1974	669309.0	4280535.0	Roadway/Open Space	-	-	0.03
1975	669319.0	4280535.0	Roadway/Open Space	-	-	0.03
1976	669329.0	4280535.0	Roadway/Open Space	-	-	0.03
1977	669339.0	4280535.0	Roadway/Open Space	-	-	0.03
1978	669349.0	4280535.0	Roadway/Open Space	-	-	0.02
1979	669359.0	4280535.0	Roadway/Open Space	-	-	0.02
1980	669369.0	4280535.0	Roadway/Open Space	-	-	0.02
1981	669379.0	4280535.0	Roadway/Open Space	-	-	0.02
1982	669389.0	4280535.0	Roadway/Open Space	-	-	0.02
1983	669399.0	4280535.0	Roadway/Open Space	-	-	0.02
1984	669409.0	4280535.0	Roadway/Open Space	-	-	0.02
1985	669419.0	4280535.0	Roadway/Open Space	-	-	0.02
1986	669429.0	4280535.0	Roadway/Open Space	-	-	0.02
1987	669439.0	4280535.0	Roadway/Open Space	-	-	0.02
1988	669449.0	4280535.0	Roadway/Open Space	-	-	0.02
1989	669459.0	4280535.0	Roadway/Open Space	-	-	0.02
1990	669469.0	4280535.0	Roadway/Open Space	-	-	0.02
1991	669479.0	4280535.0	Roadway/Open Space	-	-	0.02
1992	669489.0	4280535.0	Roadway/Open Space	-	-	0.02
1993	669499.0	4280535.0	Roadway/Open Space	-	-	0.02
1994	669509.0	4280535.0	Roadway/Open Space	-	-	0.02
1995	669519.0	4280535.0	Roadway/Open Space	-	-	0.02
1996	669529.0	4280535.0	Roadway/Open Space	-	-	0.02
1997	669539.0	4280535.0	Roadway/Open Space	-	-	0.02
1998	669549.0	4280535.0	Roadway/Open Space	-	-	0.02
1999	668639.0	4280545.0	Roadway/Open Space	-	-	0.02
2000	668649.0	4280545.0	Roadway/Open Space	-	-	0.02
2001	668659.0	4280545.0	Roadway/Open Space	-	-	0.02
2002	668669.0	4280545.0	Roadway/Open Space	-	-	0.02
2003	668679.0	4280545.0	Roadway/Open Space	-	-	0.02
2004	668689.0	4280545.0	Roadway/Open Space	-	-	0.02
2005	668699.0	4280545.0	Roadway/Open Space	-	-	0.02
2006	668709.0	4280545.0	Roadway/Open Space	-	-	0.02
2007	668719.0	4280545.0	Roadway/Open Space	-	-	0.02
2008	668729.0	4280545.0	Roadway/Open Space	-	-	0.02
2009	668739.0	4280545.0	Roadway/Open Space	-	-	0.02
2010	668749.0	4280545.0	Roadway/Open Space	-	-	0.02
2011	668759.0	4280545.0	Roadway/Open Space	-	-	0.02
2012	668769.0	4280545.0	Roadway/Open Space	-	-	0.03
2013	668779.0	4280545.0	Roadway/Open Space	-	-	0.03
2014	668789.0	4280545.0	Roadway/Open Space	-	-	0.03
2015	668799.0	4280545.0	Roadway/Open Space	-	-	0.03
2016	668809.0	4280545.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2017	668819.0	4280545.0	Roadway/Open Space	-	-	0.03
2018	668829.0	4280545.0	Roadway/Open Space	-	-	0.03
2019	668839.0	4280545.0	Roadway/Open Space	-	-	0.02
2020	668849.0	4280545.0	Roadway/Open Space	-	-	0.03
2021	668859.0	4280545.0	Roadway/Open Space	-	-	0.03
2022	668869.0	4280545.0	Roadway/Open Space	-	-	0.02
2023	668879.0	4280545.0	Roadway/Open Space	-	-	0.02
2024	668889.0	4280545.0	Roadway/Open Space	-	-	0.02
2025	668899.0	4280545.0	Roadway/Open Space	-	-	0.02
2026	668909.0	4280545.0	Roadway/Open Space	-	-	0.02
2027	668919.0	4280545.0	Roadway/Open Space	-	-	0.02
2028	668929.0	4280545.0	Roadway/Open Space	-	-	0.02
2029	668939.0	4280545.0	Roadway/Open Space	-	-	0.03
2030	668949.0	4280545.0	Roadway/Open Space	-	-	0.03
2031	668959.0	4280545.0	Roadway/Open Space	-	-	0.03
2032	668969.0	4280545.0	Roadway/Open Space	-	-	0.03
2033	668979.0	4280545.0	Roadway/Open Space	-	-	0.03
2034	668989.0	4280545.0	Roadway/Open Space	-	-	0.03
2035	668999.0	4280545.0	Roadway/Open Space	-	-	0.03
2036	669009.0	4280545.0	Roadway/Open Space	-	-	0.03
2037	669019.0	4280545.0	Roadway/Open Space	-	-	0.03
2038	669029.0	4280545.0	Roadway/Open Space	-	-	0.03
2039	669039.0	4280545.0	Roadway/Open Space	-	-	0.03
2040	669049.0	4280545.0	Roadway/Open Space	-	-	0.03
2041	669059.0	4280545.0	Roadway/Open Space	-	-	0.03
2042	669069.0	4280545.0	Roadway/Open Space	-	-	0.03
2043	669079.0	4280545.0	Roadway/Open Space	-	-	0.03
2044	669089.0	4280545.0	Roadway/Open Space	-	-	0.03
2045	669099.0	4280545.0	Roadway/Open Space	-	-	0.03
2046	669109.0	4280545.0	Roadway/Open Space	-	-	0.03
2047	669119.0	4280545.0	Roadway/Open Space	-	-	0.03
2048	669129.0	4280545.0	Roadway/Open Space	-	-	0.03
2049	669139.0	4280545.0	Roadway/Open Space	-	-	0.03
2050	669149.0	4280545.0	Roadway/Open Space	-	-	0.03
2051	669159.0	4280545.0	Roadway/Open Space	-	-	0.03
2052	669169.0	4280545.0	Roadway/Open Space	-	-	0.03
2053	669179.0	4280545.0	Roadway/Open Space	-	-	0.03
2054	669189.0	4280545.0	Roadway/Open Space	-	-	0.03
2055	669199.0	4280545.0	Roadway/Open Space	-	-	0.03
2056	669209.0	4280545.0	Roadway/Open Space	-	-	0.03
2057	669219.0	4280545.0	Roadway/Open Space	-	-	0.03
2058	669229.0	4280545.0	Roadway/Open Space	-	-	0.03
2059	669239.0	4280545.0	Roadway/Open Space	-	-	0.03
2060	669249.0	4280545.0	Roadway/Open Space	-	-	0.03
2061	669259.0	4280545.0	Roadway/Open Space	-	-	0.03
2062	669269.0	4280545.0	Roadway/Open Space	-	-	0.03
2063	669279.0	4280545.0	Roadway/Open Space	-	-	0.03
2064	669289.0	4280545.0	Roadway/Open Space	-	-	0.03
2065	669299.0	4280545.0	Roadway/Open Space	-	-	0.03
2066	669309.0	4280545.0	Roadway/Open Space	-	-	0.03
2067	669319.0	4280545.0	Roadway/Open Space	-	-	0.03
2068	669329.0	4280545.0	Roadway/Open Space	-	-	0.03
2069	669339.0	4280545.0	Roadway/Open Space	-	-	0.03
2070	669349.0	4280545.0	Roadway/Open Space	-	-	0.03
2071	669359.0	4280545.0	Roadway/Open Space	-	-	0.02
2072	669369.0	4280545.0	Roadway/Open Space	-	-	0.02
2073	669379.0	4280545.0	Roadway/Open Space	-	-	0.02
2074	669389.0	4280545.0	Roadway/Open Space	-	-	0.02
2075	669399.0	4280545.0	Roadway/Open Space	-	-	0.02
2076	669409.0	4280545.0	Roadway/Open Space	-	-	0.02
2077	669419.0	4280545.0	Roadway/Open Space	-	-	0.02
2078	669429.0	4280545.0	Roadway/Open Space	-	-	0.02
2079	669439.0	4280545.0	Roadway/Open Space	-	-	0.02
2080	669449.0	4280545.0	Roadway/Open Space	-	-	0.02
2081	669459.0	4280545.0	Roadway/Open Space	-	-	0.02
2082	669469.0	4280545.0	Roadway/Open Space	-	-	0.02
2083	669479.0	4280545.0	Roadway/Open Space	-	-	0.02
2084	669489.0	4280545.0	Roadway/Open Space	-	-	0.02
2085	669499.0	4280545.0	Roadway/Open Space	-	-	0.02
2086	669509.0	4280545.0	Roadway/Open Space	-	-	0.02
2087	669519.0	4280545.0	Roadway/Open Space	-	-	0.02
2088	669529.0	4280545.0	Roadway/Open Space	-	-	0.02
2089	669539.0	4280545.0	Roadway/Open Space	-	-	0.02
2090	669549.0	4280545.0	Roadway/Open Space	-	-	0.02
2091	668629.0	4280555.0	Roadway/Open Space	-	-	0.02
2092	668639.0	4280555.0	Roadway/Open Space	-	-	0.02
2093	668649.0	4280555.0	Roadway/Open Space	-	-	0.02
2094	668659.0	4280555.0	Roadway/Open Space	-	-	0.02
2095	668669.0	4280555.0	Roadway/Open Space	-	-	0.02
2096	668679.0	4280555.0	Roadway/Open Space	-	-	0.02
2097	668689.0	4280555.0	Roadway/Open Space	-	-	0.02
2098	668699.0	4280555.0	Roadway/Open Space	-	-	0.02
2099	668709.0	4280555.0	Roadway/Open Space	-	-	0.02
2100	668719.0	4280555.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2101	668729.0	4280555.0	Roadway/Open Space	-	-	0.02
2102	668739.0	4280555.0	Roadway/Open Space	-	-	0.02
2103	668749.0	4280555.0	Roadway/Open Space	-	-	0.02
2104	668759.0	4280555.0	Roadway/Open Space	-	-	0.02
2105	668769.0	4280555.0	Roadway/Open Space	-	-	0.03
2106	668779.0	4280555.0	Roadway/Open Space	-	-	0.03
2107	668789.0	4280555.0	Roadway/Open Space	-	-	0.03
2108	668799.0	4280555.0	Roadway/Open Space	-	-	0.03
2109	668809.0	4280555.0	Roadway/Open Space	-	-	0.03
2110	668819.0	4280555.0	Roadway/Open Space	-	-	0.03
2111	668829.0	4280555.0	Roadway/Open Space	-	-	0.03
2112	668839.0	4280555.0	Roadway/Open Space	-	-	0.03
2113	668849.0	4280555.0	Roadway/Open Space	-	-	0.03
2114	668859.0	4280555.0	Roadway/Open Space	-	-	0.03
2115	668869.0	4280555.0	Roadway/Open Space	-	-	0.03
2116	668879.0	4280555.0	Roadway/Open Space	-	-	0.02
2117	668889.0	4280555.0	Roadway/Open Space	-	-	0.02
2118	668899.0	4280555.0	Roadway/Open Space	-	-	0.02
2119	668909.0	4280555.0	Roadway/Open Space	-	-	0.02
2120	668919.0	4280555.0	Roadway/Open Space	-	-	0.02
2121	668929.0	4280555.0	Roadway/Open Space	-	-	0.02
2122	668939.0	4280555.0	Roadway/Open Space	-	-	0.03
2123	668949.0	4280555.0	Roadway/Open Space	-	-	0.03
2124	668959.0	4280555.0	Roadway/Open Space	-	-	0.03
2125	668969.0	4280555.0	Roadway/Open Space	-	-	0.03
2126	668979.0	4280555.0	Roadway/Open Space	-	-	0.03
2127	668989.0	4280555.0	Roadway/Open Space	-	-	0.03
2128	668999.0	4280555.0	Roadway/Open Space	-	-	0.03
2129	669009.0	4280555.0	Roadway/Open Space	-	-	0.03
2130	669019.0	4280555.0	Roadway/Open Space	-	-	0.03
2131	669029.0	4280555.0	Roadway/Open Space	-	-	0.03
2132	669039.0	4280555.0	Roadway/Open Space	-	-	0.03
2133	669049.0	4280555.0	Roadway/Open Space	-	-	0.03
2134	669059.0	4280555.0	Roadway/Open Space	-	-	0.03
2135	669069.0	4280555.0	Roadway/Open Space	-	-	0.03
2136	669079.0	4280555.0	Roadway/Open Space	-	-	0.03
2137	669089.0	4280555.0	Roadway/Open Space	-	-	0.03
2138	669099.0	4280555.0	Roadway/Open Space	-	-	0.03
2139	669109.0	4280555.0	Roadway/Open Space	-	-	0.03
2140	669119.0	4280555.0	Roadway/Open Space	-	-	0.03
2141	669129.0	4280555.0	Roadway/Open Space	-	-	0.03
2142	669139.0	4280555.0	Roadway/Open Space	-	-	0.03
2143	669149.0	4280555.0	Roadway/Open Space	-	-	0.03
2144	669159.0	4280555.0	Roadway/Open Space	-	-	0.03
2145	669169.0	4280555.0	Roadway/Open Space	-	-	0.03
2146	669179.0	4280555.0	Roadway/Open Space	-	-	0.03
2147	669189.0	4280555.0	Roadway/Open Space	-	-	0.03
2148	669199.0	4280555.0	Roadway/Open Space	-	-	0.03
2149	669209.0	4280555.0	Roadway/Open Space	-	-	0.03
2150	669219.0	4280555.0	Roadway/Open Space	-	-	0.03
2151	669229.0	4280555.0	Roadway/Open Space	-	-	0.03
2152	669239.0	4280555.0	Roadway/Open Space	-	-	0.03
2153	669249.0	4280555.0	Roadway/Open Space	-	-	0.03
2154	669259.0	4280555.0	Roadway/Open Space	-	-	0.03
2155	669269.0	4280555.0	Roadway/Open Space	-	-	0.03
2156	669279.0	4280555.0	Roadway/Open Space	-	-	0.03
2157	669289.0	4280555.0	Roadway/Open Space	-	-	0.03
2158	669299.0	4280555.0	Roadway/Open Space	-	-	0.03
2159	669309.0	4280555.0	Roadway/Open Space	-	-	0.03
2160	669319.0	4280555.0	Roadway/Open Space	-	-	0.03
2161	669329.0	4280555.0	Roadway/Open Space	-	-	0.03
2162	669339.0	4280555.0	Roadway/Open Space	-	-	0.03
2163	669349.0	4280555.0	Roadway/Open Space	-	-	0.03
2164	669359.0	4280555.0	Roadway/Open Space	-	-	0.03
2165	669369.0	4280555.0	Roadway/Open Space	-	-	0.02
2166	669379.0	4280555.0	Roadway/Open Space	-	-	0.02
2167	669389.0	4280555.0	Roadway/Open Space	-	-	0.02
2168	669399.0	4280555.0	Roadway/Open Space	-	-	0.02
2169	669409.0	4280555.0	Roadway/Open Space	-	-	0.02
2170	669419.0	4280555.0	Roadway/Open Space	-	-	0.02
2171	669429.0	4280555.0	Roadway/Open Space	-	-	0.02
2172	669439.0	4280555.0	Roadway/Open Space	-	-	0.02
2173	669449.0	4280555.0	Roadway/Open Space	-	-	0.02
2174	669459.0	4280555.0	Roadway/Open Space	-	-	0.02
2175	669469.0	4280555.0	Roadway/Open Space	-	-	0.02
2176	669479.0	4280555.0	Roadway/Open Space	-	-	0.02
2177	669489.0	4280555.0	Roadway/Open Space	-	-	0.02
2178	669499.0	4280555.0	Roadway/Open Space	-	-	0.02
2179	669509.0	4280555.0	Roadway/Open Space	-	-	0.02
2180	669519.0	4280555.0	Roadway/Open Space	-	-	0.02
2181	669529.0	4280555.0	Roadway/Open Space	-	-	0.02
2182	669539.0	4280555.0	Roadway/Open Space	-	-	0.02
2183	669549.0	4280555.0	Roadway/Open Space	-	-	0.02
2184	669559.0	4280555.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2185	668629.0	4280565.0	Roadway/Open Space	-	-	0.02
2186	668639.0	4280565.0	Roadway/Open Space	-	-	0.02
2187	668649.0	4280565.0	Roadway/Open Space	-	-	0.02
2188	668659.0	4280565.0	Roadway/Open Space	-	-	0.02
2189	668669.0	4280565.0	Roadway/Open Space	-	-	0.02
2190	668679.0	4280565.0	Roadway/Open Space	-	-	0.02
2191	668689.0	4280565.0	Roadway/Open Space	-	-	0.02
2192	668699.0	4280565.0	Roadway/Open Space	-	-	0.02
2193	668709.0	4280565.0	Roadway/Open Space	-	-	0.02
2194	668719.0	4280565.0	Roadway/Open Space	-	-	0.02
2195	668729.0	4280565.0	Roadway/Open Space	-	-	0.02
2196	668739.0	4280565.0	Roadway/Open Space	-	-	0.02
2197	668749.0	4280565.0	Roadway/Open Space	-	-	0.02
2198	668759.0	4280565.0	Roadway/Open Space	-	-	0.02
2199	668769.0	4280565.0	Roadway/Open Space	-	-	0.03
2200	668779.0	4280565.0	Roadway/Open Space	-	-	0.03
2201	668789.0	4280565.0	Roadway/Open Space	-	-	0.03
2202	668799.0	4280565.0	Roadway/Open Space	-	-	0.03
2203	668809.0	4280565.0	Roadway/Open Space	-	-	0.03
2204	668819.0	4280565.0	Roadway/Open Space	-	-	0.03
2205	668829.0	4280565.0	Roadway/Open Space	-	-	0.03
2206	668839.0	4280565.0	Roadway/Open Space	-	-	0.03
2207	668849.0	4280565.0	Roadway/Open Space	-	-	0.03
2208	668859.0	4280565.0	Roadway/Open Space	-	-	0.03
2209	668869.0	4280565.0	Roadway/Open Space	-	-	0.03
2210	668879.0	4280565.0	Roadway/Open Space	-	-	0.03
2211	668889.0	4280565.0	Roadway/Open Space	-	-	0.03
2212	668899.0	4280565.0	Roadway/Open Space	-	-	0.03
2213	668909.0	4280565.0	Roadway/Open Space	-	-	0.03
2214	668919.0	4280565.0	Roadway/Open Space	-	-	0.03
2215	668929.0	4280565.0	Roadway/Open Space	-	-	0.03
2216	668939.0	4280565.0	Roadway/Open Space	-	-	0.03
2217	668949.0	4280565.0	Roadway/Open Space	-	-	0.03
2218	668959.0	4280565.0	Roadway/Open Space	-	-	0.03
2219	668969.0	4280565.0	Roadway/Open Space	-	-	0.03
2220	668979.0	4280565.0	Roadway/Open Space	-	-	0.03
2221	668989.0	4280565.0	Roadway/Open Space	-	-	0.03
2222	668999.0	4280565.0	Roadway/Open Space	-	-	0.03
2223	669009.0	4280565.0	Roadway/Open Space	-	-	0.03
2224	669019.0	4280565.0	Roadway/Open Space	-	-	0.03
2225	669029.0	4280565.0	Roadway/Open Space	-	-	0.03
2226	669039.0	4280565.0	Roadway/Open Space	-	-	0.03
2227	669049.0	4280565.0	Roadway/Open Space	-	-	0.03
2228	669059.0	4280565.0	Roadway/Open Space	-	-	0.03
2229	669069.0	4280565.0	Roadway/Open Space	-	-	0.03
2230	669079.0	4280565.0	Roadway/Open Space	-	-	0.03
2231	669089.0	4280565.0	Roadway/Open Space	-	-	0.03
2232	669099.0	4280565.0	Roadway/Open Space	-	-	0.03
2233	669109.0	4280565.0	Roadway/Open Space	-	-	0.03
2234	669119.0	4280565.0	Roadway/Open Space	-	-	0.03
2235	669129.0	4280565.0	Roadway/Open Space	-	-	0.03
2236	669139.0	4280565.0	Roadway/Open Space	-	-	0.03
2237	669149.0	4280565.0	Roadway/Open Space	-	-	0.03
2238	669159.0	4280565.0	Roadway/Open Space	-	-	0.03
2239	669169.0	4280565.0	Roadway/Open Space	-	-	0.03
2240	669179.0	4280565.0	Roadway/Open Space	-	-	0.03
2241	669189.0	4280565.0	Roadway/Open Space	-	-	0.03
2242	669199.0	4280565.0	Roadway/Open Space	-	-	0.03
2243	669209.0	4280565.0	Roadway/Open Space	-	-	0.03
2244	669219.0	4280565.0	Roadway/Open Space	-	-	0.03
2245	669229.0	4280565.0	Roadway/Open Space	-	-	0.03
2246	669239.0	4280565.0	Roadway/Open Space	-	-	0.03
2247	669249.0	4280565.0	Roadway/Open Space	-	-	0.03
2248	669259.0	4280565.0	Roadway/Open Space	-	-	0.03
2249	669269.0	4280565.0	Roadway/Open Space	-	-	0.03
2250	669279.0	4280565.0	Roadway/Open Space	-	-	0.03
2251	669289.0	4280565.0	Roadway/Open Space	-	-	0.03
2252	669299.0	4280565.0	Roadway/Open Space	-	-	0.03
2253	669309.0	4280565.0	Roadway/Open Space	-	-	0.03
2254	669319.0	4280565.0	Roadway/Open Space	-	-	0.03
2255	669329.0	4280565.0	Roadway/Open Space	-	-	0.03
2256	669339.0	4280565.0	Roadway/Open Space	-	-	0.03
2257	669349.0	4280565.0	Roadway/Open Space	-	-	0.03
2258	669359.0	4280565.0	Roadway/Open Space	-	-	0.03
2259	669369.0	4280565.0	Roadway/Open Space	-	-	0.02
2260	669379.0	4280565.0	Roadway/Open Space	-	-	0.02
2261	669389.0	4280565.0	Roadway/Open Space	-	-	0.02
2262	669399.0	4280565.0	Roadway/Open Space	-	-	0.02
2263	669409.0	4280565.0	Roadway/Open Space	-	-	0.02
2264	669419.0	4280565.0	Roadway/Open Space	-	-	0.02
2265	669429.0	4280565.0	Roadway/Open Space	-	-	0.02
2266	669439.0	4280565.0	Roadway/Open Space	-	-	0.02
2267	669449.0	4280565.0	Roadway/Open Space	-	-	0.02
2268	669459.0	4280565.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2269	669469.0	4280565.0	Roadway/Open Space	-	-	0.02
2270	669479.0	4280565.0	Roadway/Open Space	-	-	0.02
2271	669489.0	4280565.0	Roadway/Open Space	-	-	0.02
2272	669499.0	4280565.0	Roadway/Open Space	-	-	0.02
2273	669509.0	4280565.0	Roadway/Open Space	-	-	0.02
2274	669519.0	4280565.0	Roadway/Open Space	-	-	0.02
2275	669529.0	4280565.0	Roadway/Open Space	-	-	0.02
2276	669539.0	4280565.0	Roadway/Open Space	-	-	0.02
2277	669549.0	4280565.0	Roadway/Open Space	-	-	0.02
2278	669559.0	4280565.0	Roadway/Open Space	-	-	0.02
2279	669569.0	4280565.0	Roadway/Open Space	-	-	0.02
2280	668619.0	4280575.0	Roadway/Open Space	-	-	0.02
2281	668629.0	4280575.0	Roadway/Open Space	-	-	0.02
2282	668639.0	4280575.0	Roadway/Open Space	-	-	0.02
2283	668649.0	4280575.0	Roadway/Open Space	-	-	0.02
2284	668659.0	4280575.0	Roadway/Open Space	-	-	0.02
2285	668669.0	4280575.0	Roadway/Open Space	-	-	0.02
2286	668679.0	4280575.0	Roadway/Open Space	-	-	0.02
2287	668689.0	4280575.0	Roadway/Open Space	-	-	0.02
2288	668699.0	4280575.0	Roadway/Open Space	-	-	0.02
2289	668709.0	4280575.0	Roadway/Open Space	-	-	0.02
2290	668719.0	4280575.0	Roadway/Open Space	-	-	0.02
2291	668729.0	4280575.0	Roadway/Open Space	-	-	0.02
2292	668739.0	4280575.0	Roadway/Open Space	-	-	0.02
2293	668749.0	4280575.0	Roadway/Open Space	-	-	0.02
2294	668759.0	4280575.0	Roadway/Open Space	-	-	0.03
2295	668769.0	4280575.0	Roadway/Open Space	-	-	0.03
2296	668779.0	4280575.0	Roadway/Open Space	-	-	0.03
2297	668789.0	4280575.0	Roadway/Open Space	-	-	0.03
2298	668799.0	4280575.0	Roadway/Open Space	-	-	0.03
2299	668809.0	4280575.0	Roadway/Open Space	-	-	0.03
2300	668819.0	4280575.0	Roadway/Open Space	-	-	0.03
2301	668829.0	4280575.0	Roadway/Open Space	-	-	0.03
2302	668839.0	4280575.0	Roadway/Open Space	-	-	0.03
2303	668849.0	4280575.0	Roadway/Open Space	-	-	0.03
2304	668859.0	4280575.0	Roadway/Open Space	-	-	0.03
2305	668869.0	4280575.0	Roadway/Open Space	-	-	0.03
2306	668879.0	4280575.0	Roadway/Open Space	-	-	0.03
2307	668889.0	4280575.0	Roadway/Open Space	-	-	0.03
2308	668899.0	4280575.0	Roadway/Open Space	-	-	0.03
2309	668909.0	4280575.0	Roadway/Open Space	-	-	0.03
2310	668919.0	4280575.0	Roadway/Open Space	-	-	0.03
2311	668929.0	4280575.0	Roadway/Open Space	-	-	0.03
2312	668939.0	4280575.0	Roadway/Open Space	-	-	0.03
2313	668949.0	4280575.0	Roadway/Open Space	-	-	0.03
2314	668959.0	4280575.0	Roadway/Open Space	-	-	0.03
2315	668969.0	4280575.0	Roadway/Open Space	-	-	0.03
2316	668979.0	4280575.0	Roadway/Open Space	-	-	0.03
2317	668989.0	4280575.0	Roadway/Open Space	-	-	0.03
2318	668999.0	4280575.0	Roadway/Open Space	-	-	0.03
2319	669009.0	4280575.0	Roadway/Open Space	-	-	0.03
2320	669019.0	4280575.0	Roadway/Open Space	-	-	0.03
2321	669029.0	4280575.0	Roadway/Open Space	-	-	0.03
2322	669039.0	4280575.0	Roadway/Open Space	-	-	0.03
2323	669049.0	4280575.0	Roadway/Open Space	-	-	0.03
2324	669059.0	4280575.0	Roadway/Open Space	-	-	0.03
2325	669069.0	4280575.0	Roadway/Open Space	-	-	0.03
2326	669079.0	4280575.0	Roadway/Open Space	-	-	0.03
2327	669089.0	4280575.0	Roadway/Open Space	-	-	0.03
2328	669099.0	4280575.0	Roadway/Open Space	-	-	0.03
2329	669109.0	4280575.0	Roadway/Open Space	-	-	0.03
2330	669119.0	4280575.0	Roadway/Open Space	-	-	0.03
2331	669129.0	4280575.0	Roadway/Open Space	-	-	0.03
2332	669139.0	4280575.0	Roadway/Open Space	-	-	0.03
2333	669149.0	4280575.0	Roadway/Open Space	-	-	0.03
2334	669159.0	4280575.0	Roadway/Open Space	-	-	0.03
2335	669169.0	4280575.0	Roadway/Open Space	-	-	0.03
2336	669179.0	4280575.0	Roadway/Open Space	-	-	0.03
2337	669189.0	4280575.0	Roadway/Open Space	-	-	0.03
2338	669199.0	4280575.0	Roadway/Open Space	-	-	0.03
2339	669209.0	4280575.0	Roadway/Open Space	-	-	0.03
2340	669219.0	4280575.0	Roadway/Open Space	-	-	0.03
2341	669229.0	4280575.0	Roadway/Open Space	-	-	0.03
2342	669239.0	4280575.0	Roadway/Open Space	-	-	0.03
2343	669249.0	4280575.0	Roadway/Open Space	-	-	0.03
2344	669259.0	4280575.0	Roadway/Open Space	-	-	0.03
2345	669269.0	4280575.0	Roadway/Open Space	-	-	0.03
2346	669279.0	4280575.0	Roadway/Open Space	-	-	0.03
2347	669289.0	4280575.0	Roadway/Open Space	-	-	0.03
2348	669299.0	4280575.0	Roadway/Open Space	-	-	0.03
2349	669309.0	4280575.0	Roadway/Open Space	-	-	0.04
2350	669319.0	4280575.0	Roadway/Open Space	-	-	0.04
2351	669329.0	4280575.0	Roadway/Open Space	-	-	0.03
2352	669339.0	4280575.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2353	669349.0	4280575.0	Roadway/Open Space	-	-	0.03
2354	669359.0	4280575.0	Roadway/Open Space	-	-	0.03
2355	669369.0	4280575.0	Roadway/Open Space	-	-	0.02
2356	669379.0	4280575.0	Roadway/Open Space	-	-	0.02
2357	669389.0	4280575.0	Roadway/Open Space	-	-	0.02
2358	669399.0	4280575.0	Roadway/Open Space	-	-	0.02
2359	669409.0	4280575.0	Roadway/Open Space	-	-	0.02
2360	669419.0	4280575.0	Roadway/Open Space	-	-	0.02
2361	669429.0	4280575.0	Roadway/Open Space	-	-	0.02
2362	669439.0	4280575.0	Roadway/Open Space	-	-	0.02
2363	669449.0	4280575.0	Roadway/Open Space	-	-	0.02
2364	669459.0	4280575.0	Roadway/Open Space	-	-	0.02
2365	669469.0	4280575.0	Roadway/Open Space	-	-	0.02
2366	669479.0	4280575.0	Roadway/Open Space	-	-	0.02
2367	669489.0	4280575.0	Roadway/Open Space	-	-	0.02
2368	669499.0	4280575.0	Roadway/Open Space	-	-	0.02
2369	669509.0	4280575.0	Roadway/Open Space	-	-	0.02
2370	669519.0	4280575.0	Roadway/Open Space	-	-	0.02
2371	669529.0	4280575.0	Roadway/Open Space	-	-	0.02
2372	669539.0	4280575.0	Roadway/Open Space	-	-	0.02
2373	669549.0	4280575.0	Roadway/Open Space	-	-	0.02
2374	669559.0	4280575.0	Roadway/Open Space	-	-	0.02
2375	669569.0	4280575.0	Roadway/Open Space	-	-	0.02
2376	668619.0	4280585.0	Roadway/Open Space	-	-	0.02
2377	668629.0	4280585.0	Roadway/Open Space	-	-	0.02
2378	668639.0	4280585.0	Roadway/Open Space	-	-	0.02
2379	668649.0	4280585.0	Roadway/Open Space	-	-	0.02
2380	668659.0	4280585.0	Roadway/Open Space	-	-	0.02
2381	668669.0	4280585.0	Roadway/Open Space	-	-	0.02
2382	668679.0	4280585.0	Roadway/Open Space	-	-	0.02
2383	668689.0	4280585.0	Roadway/Open Space	-	-	0.02
2384	668699.0	4280585.0	Roadway/Open Space	-	-	0.02
2385	668709.0	4280585.0	Roadway/Open Space	-	-	0.02
2386	668719.0	4280585.0	Roadway/Open Space	-	-	0.02
2387	668729.0	4280585.0	Roadway/Open Space	-	-	0.02
2388	668739.0	4280585.0	Roadway/Open Space	-	-	0.02
2389	668749.0	4280585.0	Roadway/Open Space	-	-	0.03
2390	668759.0	4280585.0	Roadway/Open Space	-	-	0.03
2391	668769.0	4280585.0	Roadway/Open Space	-	-	0.03
2392	668779.0	4280585.0	Roadway/Open Space	-	-	0.03
2393	668789.0	4280585.0	Roadway/Open Space	-	-	0.03
2394	668799.0	4280585.0	Roadway/Open Space	-	-	0.03
2395	668809.0	4280585.0	Roadway/Open Space	-	-	0.03
2396	668819.0	4280585.0	Roadway/Open Space	-	-	0.03
2397	668829.0	4280585.0	Roadway/Open Space	-	-	0.03
2398	668839.0	4280585.0	Roadway/Open Space	-	-	0.03
2399	668849.0	4280585.0	Roadway/Open Space	-	-	0.03
2400	668859.0	4280585.0	Roadway/Open Space	-	-	0.03
2401	668869.0	4280585.0	Roadway/Open Space	-	-	0.03
2402	668879.0	4280585.0	Roadway/Open Space	-	-	0.03
2403	668889.0	4280585.0	Roadway/Open Space	-	-	0.03
2404	668899.0	4280585.0	Roadway/Open Space	-	-	0.03
2405	668909.0	4280585.0	Roadway/Open Space	-	-	0.03
2406	668919.0	4280585.0	Roadway/Open Space	-	-	0.03
2407	668929.0	4280585.0	Roadway/Open Space	-	-	0.03
2408	668939.0	4280585.0	Roadway/Open Space	-	-	0.03
2409	668949.0	4280585.0	Roadway/Open Space	-	-	0.03
2410	668959.0	4280585.0	Roadway/Open Space	-	-	0.03
2411	668969.0	4280585.0	Roadway/Open Space	-	-	0.03
2412	668979.0	4280585.0	Roadway/Open Space	-	-	0.03
2413	668989.0	4280585.0	Roadway/Open Space	-	-	0.03
2414	668999.0	4280585.0	Roadway/Open Space	-	-	0.03
2415	669009.0	4280585.0	Roadway/Open Space	-	-	0.03
2416	669019.0	4280585.0	Roadway/Open Space	-	-	0.03
2417	669029.0	4280585.0	Roadway/Open Space	-	-	0.03
2418	669039.0	4280585.0	Roadway/Open Space	-	-	0.03
2419	669049.0	4280585.0	Roadway/Open Space	-	-	0.03
2420	669059.0	4280585.0	Roadway/Open Space	-	-	0.03
2421	669069.0	4280585.0	Roadway/Open Space	-	-	0.03
2422	669079.0	4280585.0	Roadway/Open Space	-	-	0.03
2423	669089.0	4280585.0	Roadway/Open Space	-	-	0.03
2424	669099.0	4280585.0	Roadway/Open Space	-	-	0.03
2425	669109.0	4280585.0	Roadway/Open Space	-	-	0.03
2426	669119.0	4280585.0	Roadway/Open Space	-	-	0.03
2427	669129.0	4280585.0	Roadway/Open Space	-	-	0.03
2428	669139.0	4280585.0	Roadway/Open Space	-	-	0.03
2429	669149.0	4280585.0	Roadway/Open Space	-	-	0.03
2430	669159.0	4280585.0	Roadway/Open Space	-	-	0.03
2431	669169.0	4280585.0	Roadway/Open Space	-	-	0.03
2432	669179.0	4280585.0	Roadway/Open Space	-	-	0.03
2433	669189.0	4280585.0	Roadway/Open Space	-	-	0.03
2434	669199.0	4280585.0	Roadway/Open Space	-	-	0.03
2435	669209.0	4280585.0	Roadway/Open Space	-	-	0.03
2436	669219.0	4280585.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2437	669229.0	4280585.0	Roadway/Open Space	-	-	0.03
2438	669239.0	4280585.0	Roadway/Open Space	-	-	0.03
2439	669249.0	4280585.0	Roadway/Open Space	-	-	0.03
2440	669259.0	4280585.0	Roadway/Open Space	-	-	0.03
2441	669269.0	4280585.0	Roadway/Open Space	-	-	0.03
2442	669279.0	4280585.0	Roadway/Open Space	-	-	0.03
2443	669289.0	4280585.0	Roadway/Open Space	-	-	0.04
2444	669299.0	4280585.0	Roadway/Open Space	-	-	0.04
2445	669309.0	4280585.0	Roadway/Open Space	-	-	0.04
2446	669319.0	4280585.0	Roadway/Open Space	-	-	0.04
2447	669329.0	4280585.0	Roadway/Open Space	-	-	0.04
2448	669339.0	4280585.0	Roadway/Open Space	-	-	0.03
2449	669349.0	4280585.0	Roadway/Open Space	-	-	0.03
2450	669359.0	4280585.0	Roadway/Open Space	-	-	0.03
2451	669369.0	4280585.0	Roadway/Open Space	-	-	0.02
2452	669379.0	4280585.0	Roadway/Open Space	-	-	0.02
2453	669389.0	4280585.0	Roadway/Open Space	-	-	0.02
2454	669399.0	4280585.0	Roadway/Open Space	-	-	0.02
2455	669409.0	4280585.0	Roadway/Open Space	-	-	0.02
2456	669419.0	4280585.0	Roadway/Open Space	-	-	0.02
2457	669429.0	4280585.0	Roadway/Open Space	-	-	0.02
2458	669439.0	4280585.0	Roadway/Open Space	-	-	0.02
2459	669449.0	4280585.0	Roadway/Open Space	-	-	0.02
2460	669459.0	4280585.0	Roadway/Open Space	-	-	0.02
2461	669469.0	4280585.0	Roadway/Open Space	-	-	0.02
2462	669479.0	4280585.0	Roadway/Open Space	-	-	0.02
2463	669489.0	4280585.0	Roadway/Open Space	-	-	0.02
2464	669499.0	4280585.0	Roadway/Open Space	-	-	0.02
2465	669509.0	4280585.0	Roadway/Open Space	-	-	0.02
2466	669519.0	4280585.0	Roadway/Open Space	-	-	0.02
2467	669529.0	4280585.0	Roadway/Open Space	-	-	0.02
2468	669539.0	4280585.0	Roadway/Open Space	-	-	0.02
2469	669549.0	4280585.0	Roadway/Open Space	-	-	0.02
2470	669559.0	4280585.0	Roadway/Open Space	-	-	0.02
2471	669569.0	4280585.0	Roadway/Open Space	-	-	0.02
2472	669579.0	4280585.0	Roadway/Open Space	-	-	0.02
2473	668609.0	4280595.0	Roadway/Open Space	-	-	0.02
2474	668619.0	4280595.0	Roadway/Open Space	-	-	0.02
2475	668629.0	4280595.0	Roadway/Open Space	-	-	0.02
2476	668639.0	4280595.0	Roadway/Open Space	-	-	0.02
2477	668649.0	4280595.0	Roadway/Open Space	-	-	0.02
2478	668659.0	4280595.0	Roadway/Open Space	-	-	0.02
2479	668669.0	4280595.0	Roadway/Open Space	-	-	0.02
2480	668679.0	4280595.0	Roadway/Open Space	-	-	0.02
2481	668689.0	4280595.0	Roadway/Open Space	-	-	0.02
2482	668699.0	4280595.0	Roadway/Open Space	-	-	0.02
2483	668709.0	4280595.0	Roadway/Open Space	-	-	0.02
2484	668719.0	4280595.0	Roadway/Open Space	-	-	0.02
2485	668729.0	4280595.0	Roadway/Open Space	-	-	0.02
2486	668739.0	4280595.0	Roadway/Open Space	-	-	0.03
2487	668749.0	4280595.0	Roadway/Open Space	-	-	0.03
2488	668759.0	4280595.0	Roadway/Open Space	-	-	0.03
2489	668769.0	4280595.0	Roadway/Open Space	-	-	0.03
2490	668779.0	4280595.0	Roadway/Open Space	-	-	0.03
2491	668789.0	4280595.0	Roadway/Open Space	-	-	0.03
2492	668799.0	4280595.0	Roadway/Open Space	-	-	0.03
2493	668809.0	4280595.0	Roadway/Open Space	-	-	0.03
2494	668819.0	4280595.0	Roadway/Open Space	-	-	0.03
2495	668829.0	4280595.0	Roadway/Open Space	-	-	0.03
2496	668839.0	4280595.0	Roadway/Open Space	-	-	0.03
2497	668849.0	4280595.0	Roadway/Open Space	-	-	0.03
2498	668859.0	4280595.0	Roadway/Open Space	-	-	0.03
2499	668869.0	4280595.0	Roadway/Open Space	-	-	0.03
2500	668879.0	4280595.0	Roadway/Open Space	-	-	0.03
2501	668889.0	4280595.0	Roadway/Open Space	-	-	0.03
2502	668899.0	4280595.0	Roadway/Open Space	-	-	0.03
2503	668909.0	4280595.0	Roadway/Open Space	-	-	0.03
2504	668919.0	4280595.0	Roadway/Open Space	-	-	0.03
2505	668929.0	4280595.0	Roadway/Open Space	-	-	0.03
2506	668939.0	4280595.0	Roadway/Open Space	-	-	0.03
2507	668949.0	4280595.0	Roadway/Open Space	-	-	0.03
2508	668959.0	4280595.0	Roadway/Open Space	-	-	0.03
2509	668969.0	4280595.0	Roadway/Open Space	-	-	0.03
2510	668979.0	4280595.0	Roadway/Open Space	-	-	0.03
2511	668989.0	4280595.0	Roadway/Open Space	-	-	0.03
2512	668999.0	4280595.0	Roadway/Open Space	-	-	0.03
2513	669009.0	4280595.0	Roadway/Open Space	-	-	0.03
2514	669019.0	4280595.0	Roadway/Open Space	-	-	0.03
2515	669029.0	4280595.0	Roadway/Open Space	-	-	0.03
2516	669039.0	4280595.0	Roadway/Open Space	-	-	0.03
2517	669049.0	4280595.0	Roadway/Open Space	-	-	0.03
2518	669059.0	4280595.0	Roadway/Open Space	-	-	0.03
2519	669069.0	4280595.0	Roadway/Open Space	-	-	0.03
2520	669079.0	4280595.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2521	669089.0	4280595.0	Roadway/Open Space	-	-	0.03
2522	669099.0	4280595.0	Roadway/Open Space	-	-	0.03
2523	669109.0	4280595.0	Roadway/Open Space	-	-	0.03
2524	669119.0	4280595.0	Roadway/Open Space	-	-	0.03
2525	669129.0	4280595.0	Roadway/Open Space	-	-	0.03
2526	669139.0	4280595.0	Roadway/Open Space	-	-	0.03
2527	669149.0	4280595.0	Roadway/Open Space	-	-	0.03
2528	669159.0	4280595.0	Roadway/Open Space	-	-	0.03
2529	669169.0	4280595.0	Roadway/Open Space	-	-	0.03
2530	669179.0	4280595.0	Roadway/Open Space	-	-	0.03
2531	669189.0	4280595.0	Roadway/Open Space	-	-	0.03
2532	669199.0	4280595.0	Roadway/Open Space	-	-	0.03
2533	669209.0	4280595.0	Roadway/Open Space	-	-	0.03
2534	669219.0	4280595.0	Roadway/Open Space	-	-	0.03
2535	669229.0	4280595.0	Roadway/Open Space	-	-	0.03
2536	669239.0	4280595.0	Roadway/Open Space	-	-	0.03
2537	669249.0	4280595.0	Roadway/Open Space	-	-	0.03
2538	669259.0	4280595.0	Roadway/Open Space	-	-	0.03
2539	669269.0	4280595.0	Roadway/Open Space	-	-	0.03
2540	669279.0	4280595.0	Roadway/Open Space	-	-	0.04
2541	669289.0	4280595.0	Roadway/Open Space	-	-	0.04
2542	669299.0	4280595.0	Roadway/Open Space	-	-	0.04
2543	669309.0	4280595.0	Roadway/Open Space	-	-	0.04
2544	669319.0	4280595.0	Roadway/Open Space	-	-	0.04
2545	669329.0	4280595.0	Roadway/Open Space	-	-	0.04
2546	669339.0	4280595.0	Roadway/Open Space	-	-	0.03
2547	669349.0	4280595.0	Roadway/Open Space	-	-	0.03
2548	669359.0	4280595.0	Roadway/Open Space	-	-	0.03
2549	669369.0	4280595.0	Roadway/Open Space	-	-	0.03
2550	669379.0	4280595.0	Roadway/Open Space	-	-	0.02
2551	669389.0	4280595.0	Roadway/Open Space	-	-	0.02
2552	669399.0	4280595.0	Roadway/Open Space	-	-	0.02
2553	669409.0	4280595.0	Roadway/Open Space	-	-	0.02
2554	669419.0	4280595.0	Roadway/Open Space	-	-	0.02
2555	669429.0	4280595.0	Roadway/Open Space	-	-	0.02
2556	669439.0	4280595.0	Roadway/Open Space	-	-	0.02
2557	669449.0	4280595.0	Roadway/Open Space	-	-	0.02
2558	669459.0	4280595.0	Roadway/Open Space	-	-	0.02
2559	669469.0	4280595.0	Roadway/Open Space	-	-	0.02
2560	669479.0	4280595.0	Roadway/Open Space	-	-	0.02
2561	669489.0	4280595.0	Roadway/Open Space	-	-	0.02
2562	669499.0	4280595.0	Roadway/Open Space	-	-	0.02
2563	669509.0	4280595.0	Roadway/Open Space	-	-	0.02
2564	669519.0	4280595.0	Roadway/Open Space	-	-	0.02
2565	669529.0	4280595.0	Roadway/Open Space	-	-	0.02
2566	669539.0	4280595.0	Roadway/Open Space	-	-	0.02
2567	669549.0	4280595.0	Roadway/Open Space	-	-	0.02
2568	669559.0	4280595.0	Roadway/Open Space	-	-	0.02
2569	669569.0	4280595.0	Roadway/Open Space	-	-	0.02
2570	669579.0	4280595.0	Roadway/Open Space	-	-	0.02
2571	668609.0	4280605.0	Roadway/Open Space	-	-	0.02
2572	668619.0	4280605.0	Roadway/Open Space	-	-	0.02
2573	668629.0	4280605.0	Roadway/Open Space	-	-	0.02
2574	668639.0	4280605.0	Roadway/Open Space	-	-	0.02
2575	668649.0	4280605.0	Roadway/Open Space	-	-	0.02
2576	668659.0	4280605.0	Roadway/Open Space	-	-	0.02
2577	668669.0	4280605.0	Roadway/Open Space	-	-	0.02
2578	668679.0	4280605.0	Roadway/Open Space	-	-	0.02
2579	668689.0	4280605.0	Roadway/Open Space	-	-	0.02
2580	668699.0	4280605.0	Roadway/Open Space	-	-	0.02
2581	668709.0	4280605.0	Roadway/Open Space	-	-	0.02
2582	668719.0	4280605.0	Roadway/Open Space	-	-	0.02
2583	668729.0	4280605.0	Roadway/Open Space	-	-	0.02
2584	668739.0	4280605.0	Roadway/Open Space	-	-	0.03
2585	668749.0	4280605.0	Roadway/Open Space	-	-	0.03
2586	668759.0	4280605.0	Roadway/Open Space	-	-	0.03
2587	668769.0	4280605.0	Roadway/Open Space	-	-	0.03
2588	668779.0	4280605.0	Roadway/Open Space	-	-	0.03
2589	668789.0	4280605.0	Roadway/Open Space	-	-	0.03
2590	668799.0	4280605.0	Roadway/Open Space	-	-	0.03
2591	668809.0	4280605.0	Roadway/Open Space	-	-	0.03
2592	668819.0	4280605.0	Roadway/Open Space	-	-	0.03
2593	668829.0	4280605.0	Roadway/Open Space	-	-	0.03
2594	668839.0	4280605.0	Roadway/Open Space	-	-	0.03
2595	668849.0	4280605.0	Roadway/Open Space	-	-	0.03
2596	668859.0	4280605.0	Roadway/Open Space	-	-	0.03
2597	668869.0	4280605.0	Roadway/Open Space	-	-	0.03
2598	668879.0	4280605.0	Roadway/Open Space	-	-	0.03
2599	668889.0	4280605.0	Roadway/Open Space	-	-	0.03
2600	668899.0	4280605.0	Roadway/Open Space	-	-	0.03
2601	668909.0	4280605.0	Roadway/Open Space	-	-	0.03
2602	668919.0	4280605.0	Roadway/Open Space	-	-	0.03
2603	668929.0	4280605.0	Roadway/Open Space	-	-	0.03
2604	668939.0	4280605.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2605	668949.0	4280605.0	Roadway/Open Space	-	-	0.03
2606	668959.0	4280605.0	Roadway/Open Space	-	-	0.03
2607	668969.0	4280605.0	Roadway/Open Space	-	-	0.03
2608	668979.0	4280605.0	Roadway/Open Space	-	-	0.03
2609	668989.0	4280605.0	Roadway/Open Space	-	-	0.03
2610	668999.0	4280605.0	Roadway/Open Space	-	-	0.03
2611	669009.0	4280605.0	Roadway/Open Space	-	-	0.03
2612	669019.0	4280605.0	Roadway/Open Space	-	-	0.03
2613	669029.0	4280605.0	Roadway/Open Space	-	-	0.03
2614	669039.0	4280605.0	Roadway/Open Space	-	-	0.03
2615	669049.0	4280605.0	Roadway/Open Space	-	-	0.03
2616	669059.0	4280605.0	Roadway/Open Space	-	-	0.03
2617	669069.0	4280605.0	Roadway/Open Space	-	-	0.03
2618	669079.0	4280605.0	Roadway/Open Space	-	-	0.03
2619	669089.0	4280605.0	Roadway/Open Space	-	-	0.03
2620	669099.0	4280605.0	Roadway/Open Space	-	-	0.03
2621	669109.0	4280605.0	Roadway/Open Space	-	-	0.03
2622	669119.0	4280605.0	Roadway/Open Space	-	-	0.03
2623	669129.0	4280605.0	Roadway/Open Space	-	-	0.03
2624	669139.0	4280605.0	Roadway/Open Space	-	-	0.03
2625	669149.0	4280605.0	Roadway/Open Space	-	-	0.03
2626	669159.0	4280605.0	Roadway/Open Space	-	-	0.03
2627	669169.0	4280605.0	Roadway/Open Space	-	-	0.03
2628	669179.0	4280605.0	Roadway/Open Space	-	-	0.03
2629	669189.0	4280605.0	Roadway/Open Space	-	-	0.03
2630	669199.0	4280605.0	Roadway/Open Space	-	-	0.03
2631	669209.0	4280605.0	Roadway/Open Space	-	-	0.03
2632	669219.0	4280605.0	Roadway/Open Space	-	-	0.03
2633	669229.0	4280605.0	Roadway/Open Space	-	-	0.03
2634	669239.0	4280605.0	Roadway/Open Space	-	-	0.03
2635	669249.0	4280605.0	Roadway/Open Space	-	-	0.03
2636	669259.0	4280605.0	Roadway/Open Space	-	-	0.03
2637	669269.0	4280605.0	Roadway/Open Space	-	-	0.03
2638	669279.0	4280605.0	Roadway/Open Space	-	-	0.04
2639	669289.0	4280605.0	Roadway/Open Space	-	-	0.04
2640	669299.0	4280605.0	Roadway/Open Space	-	-	0.04
2641	669309.0	4280605.0	Roadway/Open Space	-	-	0.04
2642	669319.0	4280605.0	Roadway/Open Space	-	-	0.04
2643	669329.0	4280605.0	Roadway/Open Space	-	-	0.04
2644	669339.0	4280605.0	Roadway/Open Space	-	-	0.03
2645	669349.0	4280605.0	Roadway/Open Space	-	-	0.03
2646	669359.0	4280605.0	Roadway/Open Space	-	-	0.03
2647	669369.0	4280605.0	Roadway/Open Space	-	-	0.03
2648	669379.0	4280605.0	Roadway/Open Space	-	-	0.03
2649	669389.0	4280605.0	Roadway/Open Space	-	-	0.02
2650	669399.0	4280605.0	Roadway/Open Space	-	-	0.02
2651	669409.0	4280605.0	Roadway/Open Space	-	-	0.02
2652	669419.0	4280605.0	Roadway/Open Space	-	-	0.02
2653	669429.0	4280605.0	Roadway/Open Space	-	-	0.02
2654	669439.0	4280605.0	Roadway/Open Space	-	-	0.02
2655	669449.0	4280605.0	Roadway/Open Space	-	-	0.02
2656	669459.0	4280605.0	Roadway/Open Space	-	-	0.02
2657	669469.0	4280605.0	Roadway/Open Space	-	-	0.02
2658	669479.0	4280605.0	Roadway/Open Space	-	-	0.02
2659	669489.0	4280605.0	Roadway/Open Space	-	-	0.02
2660	669499.0	4280605.0	Roadway/Open Space	-	-	0.02
2661	669509.0	4280605.0	Roadway/Open Space	-	-	0.02
2662	669519.0	4280605.0	Roadway/Open Space	-	-	0.02
2663	669529.0	4280605.0	Roadway/Open Space	-	-	0.02
2664	669539.0	4280605.0	Roadway/Open Space	-	-	0.02
2665	669549.0	4280605.0	Roadway/Open Space	-	-	0.02
2666	669559.0	4280605.0	Roadway/Open Space	-	-	0.02
2667	669569.0	4280605.0	Roadway/Open Space	-	-	0.02
2668	669579.0	4280605.0	Roadway/Open Space	-	-	0.02
2669	669589.0	4280605.0	Roadway/Open Space	-	-	0.02
2670	668609.0	4280615.0	Roadway/Open Space	-	-	0.03
2671	668619.0	4280615.0	Roadway/Open Space	-	-	0.02
2672	668629.0	4280615.0	Roadway/Open Space	-	-	0.02
2673	668639.0	4280615.0	Roadway/Open Space	-	-	0.02
2674	668649.0	4280615.0	Roadway/Open Space	-	-	0.02
2675	668659.0	4280615.0	Roadway/Open Space	-	-	0.02
2676	668669.0	4280615.0	Roadway/Open Space	-	-	0.02
2677	668679.0	4280615.0	Roadway/Open Space	-	-	0.02
2678	668689.0	4280615.0	Roadway/Open Space	-	-	0.02
2679	668699.0	4280615.0	Roadway/Open Space	-	-	0.02
2680	668709.0	4280615.0	Roadway/Open Space	-	-	0.02
2681	668719.0	4280615.0	Roadway/Open Space	-	-	0.03
2682	668729.0	4280615.0	Roadway/Open Space	-	-	0.03
2683	668739.0	4280615.0	Roadway/Open Space	-	-	0.03
2684	668749.0	4280615.0	Roadway/Open Space	-	-	0.03
2685	668759.0	4280615.0	Roadway/Open Space	-	-	0.03
2686	668769.0	4280615.0	Roadway/Open Space	-	-	0.03
2687	668779.0	4280615.0	Roadway/Open Space	-	-	0.03
2688	668789.0	4280615.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2689	668799.0	4280615.0	Roadway/Open Space	-	-	0.03
2690	668809.0	4280615.0	Roadway/Open Space	-	-	0.03
2691	668819.0	4280615.0	Roadway/Open Space	-	-	0.03
2692	668829.0	4280615.0	Roadway/Open Space	-	-	0.03
2693	668839.0	4280615.0	Roadway/Open Space	-	-	0.03
2694	668849.0	4280615.0	Roadway/Open Space	-	-	0.03
2695	668859.0	4280615.0	Roadway/Open Space	-	-	0.03
2696	668869.0	4280615.0	Roadway/Open Space	-	-	0.03
2697	668879.0	4280615.0	Roadway/Open Space	-	-	0.03
2698	668889.0	4280615.0	Roadway/Open Space	-	-	0.03
2699	668899.0	4280615.0	Roadway/Open Space	-	-	0.03
2700	668909.0	4280615.0	Roadway/Open Space	-	-	0.03
2701	668919.0	4280615.0	Roadway/Open Space	-	-	0.03
2702	668929.0	4280615.0	Roadway/Open Space	-	-	0.03
2703	668939.0	4280615.0	Roadway/Open Space	-	-	0.03
2704	668949.0	4280615.0	Roadway/Open Space	-	-	0.03
2705	668959.0	4280615.0	Roadway/Open Space	-	-	0.03
2706	668969.0	4280615.0	Roadway/Open Space	-	-	0.03
2707	668979.0	4280615.0	Roadway/Open Space	-	-	0.03
2708	668989.0	4280615.0	Roadway/Open Space	-	-	0.03
2709	668999.0	4280615.0	Roadway/Open Space	-	-	0.03
2710	669009.0	4280615.0	Roadway/Open Space	-	-	0.03
2711	669019.0	4280615.0	Roadway/Open Space	-	-	0.03
2712	669029.0	4280615.0	Roadway/Open Space	-	-	0.03
2713	669039.0	4280615.0	Roadway/Open Space	-	-	0.03
2714	669049.0	4280615.0	Roadway/Open Space	-	-	0.03
2715	669059.0	4280615.0	Roadway/Open Space	-	-	0.03
2716	669069.0	4280615.0	Roadway/Open Space	-	-	0.03
2717	669079.0	4280615.0	Roadway/Open Space	-	-	0.03
2718	669089.0	4280615.0	Roadway/Open Space	-	-	0.03
2719	669099.0	4280615.0	Roadway/Open Space	-	-	0.03
2720	669109.0	4280615.0	Roadway/Open Space	-	-	0.03
2721	669119.0	4280615.0	Roadway/Open Space	-	-	0.03
2722	669129.0	4280615.0	Roadway/Open Space	-	-	0.03
2723	669139.0	4280615.0	Roadway/Open Space	-	-	0.03
2724	669149.0	4280615.0	Roadway/Open Space	-	-	0.03
2725	669159.0	4280615.0	Roadway/Open Space	-	-	0.03
2726	669169.0	4280615.0	Roadway/Open Space	-	-	0.03
2727	669179.0	4280615.0	Roadway/Open Space	-	-	0.03
2728	669189.0	4280615.0	Roadway/Open Space	-	-	0.03
2729	669199.0	4280615.0	Roadway/Open Space	-	-	0.03
2730	669209.0	4280615.0	Roadway/Open Space	-	-	0.03
2731	669219.0	4280615.0	Roadway/Open Space	-	-	0.03
2732	669229.0	4280615.0	Roadway/Open Space	-	-	0.03
2733	669239.0	4280615.0	Roadway/Open Space	-	-	0.03
2734	669249.0	4280615.0	Roadway/Open Space	-	-	0.03
2735	669259.0	4280615.0	Roadway/Open Space	-	-	0.03
2736	669269.0	4280615.0	Roadway/Open Space	-	-	0.03
2737	669279.0	4280615.0	Roadway/Open Space	-	-	0.03
2738	669289.0	4280615.0	Roadway/Open Space	-	-	0.03
2739	669299.0	4280615.0	Roadway/Open Space	-	-	0.03
2740	669309.0	4280615.0	Roadway/Open Space	-	-	0.04
2741	669319.0	4280615.0	Roadway/Open Space	-	-	0.04
2742	669329.0	4280615.0	Roadway/Open Space	-	-	0.04
2743	669339.0	4280615.0	Roadway/Open Space	-	-	0.03
2744	669349.0	4280615.0	Roadway/Open Space	-	-	0.03
2745	669359.0	4280615.0	Roadway/Open Space	-	-	0.03
2746	669369.0	4280615.0	Roadway/Open Space	-	-	0.03
2747	669379.0	4280615.0	Roadway/Open Space	-	-	0.03
2748	669389.0	4280615.0	Roadway/Open Space	-	-	0.02
2749	669399.0	4280615.0	Roadway/Open Space	-	-	0.02
2750	669409.0	4280615.0	Roadway/Open Space	-	-	0.02
2751	669419.0	4280615.0	Roadway/Open Space	-	-	0.02
2752	669429.0	4280615.0	Roadway/Open Space	-	-	0.02
2753	669439.0	4280615.0	Roadway/Open Space	-	-	0.02
2754	669449.0	4280615.0	Roadway/Open Space	-	-	0.02
2755	669459.0	4280615.0	Roadway/Open Space	-	-	0.02
2756	669469.0	4280615.0	Roadway/Open Space	-	-	0.02
2757	669479.0	4280615.0	Roadway/Open Space	-	-	0.02
2758	669489.0	4280615.0	Roadway/Open Space	-	-	0.02
2759	669499.0	4280615.0	Roadway/Open Space	-	-	0.02
2760	669509.0	4280615.0	Roadway/Open Space	-	-	0.02
2761	669519.0	4280615.0	Roadway/Open Space	-	-	0.02
2762	669529.0	4280615.0	Roadway/Open Space	-	-	0.02
2763	669539.0	4280615.0	Roadway/Open Space	-	-	0.02
2764	669549.0	4280615.0	Roadway/Open Space	-	-	0.02
2765	669559.0	4280615.0	Roadway/Open Space	-	-	0.02
2766	669569.0	4280615.0	Roadway/Open Space	-	-	0.02
2767	669579.0	4280615.0	Roadway/Open Space	-	-	0.02
2768	669589.0	4280615.0	Roadway/Open Space	-	-	0.02
2769	668599.0	4280625.0	Roadway/Open Space	-	-	0.03
2770	668609.0	4280625.0	Roadway/Open Space	-	-	0.03
2771	668619.0	4280625.0	Roadway/Open Space	-	-	0.02
2772	668629.0	4280625.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2773	668639.0	4280625.0	Roadway/Open Space	-	-	0.02
2774	668649.0	4280625.0	Roadway/Open Space	-	-	0.02
2775	668659.0	4280625.0	Roadway/Open Space	-	-	0.02
2776	668669.0	4280625.0	Roadway/Open Space	-	-	0.02
2777	668679.0	4280625.0	Roadway/Open Space	-	-	0.02
2778	668689.0	4280625.0	Roadway/Open Space	-	-	0.02
2779	668699.0	4280625.0	Roadway/Open Space	-	-	0.02
2780	668709.0	4280625.0	Roadway/Open Space	-	-	0.03
2781	668719.0	4280625.0	Roadway/Open Space	-	-	0.03
2782	668729.0	4280625.0	Roadway/Open Space	-	-	0.03
2783	668739.0	4280625.0	Roadway/Open Space	-	-	0.03
2784	668749.0	4280625.0	Roadway/Open Space	-	-	0.03
2785	668759.0	4280625.0	Roadway/Open Space	-	-	0.03
2786	668769.0	4280625.0	Roadway/Open Space	-	-	0.03
2787	668779.0	4280625.0	Roadway/Open Space	-	-	0.03
2788	668789.0	4280625.0	Roadway/Open Space	-	-	0.03
2789	668799.0	4280625.0	Roadway/Open Space	-	-	0.03
2790	668809.0	4280625.0	Roadway/Open Space	-	-	0.03
2791	668819.0	4280625.0	Roadway/Open Space	-	-	0.03
2792	668829.0	4280625.0	Roadway/Open Space	-	-	0.03
2793	668839.0	4280625.0	Roadway/Open Space	-	-	0.03
2794	668849.0	4280625.0	Roadway/Open Space	-	-	0.03
2795	668859.0	4280625.0	Roadway/Open Space	-	-	0.03
2796	668869.0	4280625.0	Roadway/Open Space	-	-	0.03
2797	668879.0	4280625.0	Roadway/Open Space	-	-	0.03
2798	668889.0	4280625.0	Roadway/Open Space	-	-	0.03
2799	668899.0	4280625.0	Roadway/Open Space	-	-	0.03
2800	668909.0	4280625.0	Roadway/Open Space	-	-	0.03
2801	668919.0	4280625.0	Roadway/Open Space	-	-	0.03
2802	668929.0	4280625.0	Roadway/Open Space	-	-	0.03
2803	668939.0	4280625.0	Roadway/Open Space	-	-	0.03
2804	668949.0	4280625.0	Roadway/Open Space	-	-	0.03
2805	668959.0	4280625.0	Roadway/Open Space	-	-	0.03
2806	668969.0	4280625.0	Roadway/Open Space	-	-	0.03
2807	668979.0	4280625.0	Roadway/Open Space	-	-	0.03
2808	668989.0	4280625.0	Roadway/Open Space	-	-	0.03
2809	668999.0	4280625.0	Roadway/Open Space	-	-	0.03
2810	669009.0	4280625.0	Roadway/Open Space	-	-	0.03
2811	669019.0	4280625.0	Roadway/Open Space	-	-	0.03
2812	669029.0	4280625.0	Roadway/Open Space	-	-	0.03
2813	669039.0	4280625.0	Roadway/Open Space	-	-	0.03
2815	669059.0	4280625.0	Roadway/Open Space	-	-	0.03
2816	669069.0	4280625.0	Roadway/Open Space	-	-	0.03
2817	669079.0	4280625.0	Roadway/Open Space	-	-	0.03
2818	669089.0	4280625.0	Roadway/Open Space	-	-	0.03
2819	669099.0	4280625.0	Roadway/Open Space	-	-	0.03
2820	669109.0	4280625.0	Roadway/Open Space	-	-	0.03
2821	669119.0	4280625.0	Roadway/Open Space	-	-	0.03
2822	669129.0	4280625.0	Roadway/Open Space	-	-	0.03
2823	669139.0	4280625.0	Roadway/Open Space	-	-	0.03
2824	669149.0	4280625.0	Roadway/Open Space	-	-	0.03
2825	669159.0	4280625.0	Roadway/Open Space	-	-	0.03
2826	669169.0	4280625.0	Roadway/Open Space	-	-	0.03
2827	669179.0	4280625.0	Roadway/Open Space	-	-	0.03
2828	669189.0	4280625.0	Roadway/Open Space	-	-	0.03
2829	669199.0	4280625.0	Roadway/Open Space	-	-	0.03
2830	669209.0	4280625.0	Roadway/Open Space	-	-	0.04
2831	669219.0	4280625.0	Roadway/Open Space	-	-	0.03
2832	669229.0	4280625.0	Roadway/Open Space	-	-	0.04
2833	669239.0	4280625.0	Roadway/Open Space	-	-	0.03
2834	669249.0	4280625.0	Roadway/Open Space	-	-	0.03
2835	669259.0	4280625.0	Roadway/Open Space	-	-	0.03
2836	669269.0	4280625.0	Roadway/Open Space	-	-	0.03
2837	669279.0	4280625.0	Roadway/Open Space	-	-	0.03
2838	669289.0	4280625.0	Roadway/Open Space	-	-	0.03
2839	669299.0	4280625.0	Roadway/Open Space	-	-	0.03
2840	669309.0	4280625.0	Roadway/Open Space	-	-	0.03
2841	669319.0	4280625.0	Roadway/Open Space	-	-	0.04
2842	669329.0	4280625.0	Roadway/Open Space	-	-	0.03
2843	669339.0	4280625.0	Roadway/Open Space	-	-	0.03
2844	669349.0	4280625.0	Roadway/Open Space	-	-	0.03
2845	669359.0	4280625.0	Roadway/Open Space	-	-	0.03
2846	669369.0	4280625.0	Roadway/Open Space	-	-	0.03
2847	669379.0	4280625.0	Roadway/Open Space	-	-	0.03
2848	669389.0	4280625.0	Roadway/Open Space	-	-	0.02
2849	669399.0	4280625.0	Roadway/Open Space	-	-	0.02
2850	669409.0	4280625.0	Roadway/Open Space	-	-	0.02
2851	669419.0	4280625.0	Roadway/Open Space	-	-	0.02
2852	669429.0	4280625.0	Roadway/Open Space	-	-	0.02
2853	669439.0	4280625.0	Roadway/Open Space	-	-	0.02
2854	669449.0	4280625.0	Roadway/Open Space	-	-	0.02
2855	669459.0	4280625.0	Roadway/Open Space	-	-	0.02
2856	669469.0	4280625.0	Roadway/Open Space	-	-	0.02
2857	669479.0	4280625.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2858	669489.0	4280625.0	Roadway/Open Space	-	-	0.02
2859	669499.0	4280625.0	Roadway/Open Space	-	-	0.02
2860	669509.0	4280625.0	Roadway/Open Space	-	-	0.02
2861	669519.0	4280625.0	Roadway/Open Space	-	-	0.02
2862	669529.0	4280625.0	Roadway/Open Space	-	-	0.02
2863	669539.0	4280625.0	Roadway/Open Space	-	-	0.02
2864	669549.0	4280625.0	Roadway/Open Space	-	-	0.02
2865	669559.0	4280625.0	Roadway/Open Space	-	-	0.02
2866	669569.0	4280625.0	Roadway/Open Space	-	-	0.02
2867	669579.0	4280625.0	Roadway/Open Space	-	-	0.02
2868	669589.0	4280625.0	Roadway/Open Space	-	-	0.02
2869	669599.0	4280625.0	Roadway/Open Space	-	-	0.02
2870	668599.0	4280635.0	Roadway/Open Space	-	-	0.03
2871	668609.0	4280635.0	Roadway/Open Space	-	-	0.03
2872	668619.0	4280635.0	Roadway/Open Space	-	-	0.02
2873	668629.0	4280635.0	Roadway/Open Space	-	-	0.02
2874	668639.0	4280635.0	Roadway/Open Space	-	-	0.02
2875	668649.0	4280635.0	Roadway/Open Space	-	-	0.02
2876	668659.0	4280635.0	Roadway/Open Space	-	-	0.02
2877	668669.0	4280635.0	Roadway/Open Space	-	-	0.02
2878	668679.0	4280635.0	Roadway/Open Space	-	-	0.02
2879	668689.0	4280635.0	Roadway/Open Space	-	-	0.02
2880	668699.0	4280635.0	Roadway/Open Space	-	-	0.02
2881	668709.0	4280635.0	Roadway/Open Space	-	-	0.03
2882	668719.0	4280635.0	Roadway/Open Space	-	-	0.03
2883	668729.0	4280635.0	Roadway/Open Space	-	-	0.03
2884	668739.0	4280635.0	Roadway/Open Space	-	-	0.03
2885	668749.0	4280635.0	Roadway/Open Space	-	-	0.03
2886	668759.0	4280635.0	Roadway/Open Space	-	-	0.03
2887	668769.0	4280635.0	Roadway/Open Space	-	-	0.03
2888	668779.0	4280635.0	Roadway/Open Space	-	-	0.03
2889	668789.0	4280635.0	Roadway/Open Space	-	-	0.03
2890	668799.0	4280635.0	Roadway/Open Space	-	-	0.03
2891	668809.0	4280635.0	Roadway/Open Space	-	-	0.03
2892	668819.0	4280635.0	Roadway/Open Space	-	-	0.03
2893	668829.0	4280635.0	Roadway/Open Space	-	-	0.03
2894	668839.0	4280635.0	Roadway/Open Space	-	-	0.03
2895	668849.0	4280635.0	Roadway/Open Space	-	-	0.03
2896	668859.0	4280635.0	Roadway/Open Space	-	-	0.03
2897	668869.0	4280635.0	Roadway/Open Space	-	-	0.03
2898	668879.0	4280635.0	Roadway/Open Space	-	-	0.03
2899	668889.0	4280635.0	Roadway/Open Space	-	-	0.03
2900	668899.0	4280635.0	Roadway/Open Space	-	-	0.03
2901	668909.0	4280635.0	Roadway/Open Space	-	-	0.03
2902	668919.0	4280635.0	Roadway/Open Space	-	-	0.03
2903	668929.0	4280635.0	Roadway/Open Space	-	-	0.03
2904	668939.0	4280635.0	Roadway/Open Space	-	-	0.03
2905	668949.0	4280635.0	Roadway/Open Space	-	-	0.03
2906	668959.0	4280635.0	Roadway/Open Space	-	-	0.03
2907	668969.0	4280635.0	Roadway/Open Space	-	-	0.03
2908	668979.0	4280635.0	Roadway/Open Space	-	-	0.03
2909	668989.0	4280635.0	Roadway/Open Space	-	-	0.03
2910	668999.0	4280635.0	Roadway/Open Space	-	-	0.03
2911	669009.0	4280635.0	Roadway/Open Space	-	-	0.03
2912	669019.0	4280635.0	Roadway/Open Space	-	-	0.03
2913	669029.0	4280635.0	Roadway/Open Space	-	-	0.03
2917	669069.0	4280635.0	Roadway/Open Space	-	-	0.03
2918	669079.0	4280635.0	Roadway/Open Space	-	-	0.03
2919	669089.0	4280635.0	Roadway/Open Space	-	-	0.04
2920	669099.0	4280635.0	Roadway/Open Space	-	-	0.03
2921	669109.0	4280635.0	Roadway/Open Space	-	-	0.04
2922	669119.0	4280635.0	Roadway/Open Space	-	-	0.03
2923	669129.0	4280635.0	Roadway/Open Space	-	-	0.04
2924	669139.0	4280635.0	Roadway/Open Space	-	-	0.04
2925	669149.0	4280635.0	Roadway/Open Space	-	-	0.04
2926	669159.0	4280635.0	Roadway/Open Space	-	-	0.04
2927	669169.0	4280635.0	Roadway/Open Space	-	-	0.03
2928	669179.0	4280635.0	Roadway/Open Space	-	-	0.04
2929	669189.0	4280635.0	Roadway/Open Space	-	-	0.04
2930	669199.0	4280635.0	Roadway/Open Space	-	-	0.04
2931	669209.0	4280635.0	Roadway/Open Space	-	-	0.04
2932	669219.0	4280635.0	Roadway/Open Space	-	-	0.04
2933	669229.0	4280635.0	Roadway/Open Space	-	-	0.04
2934	669239.0	4280635.0	Roadway/Open Space	-	-	0.04
2935	669249.0	4280635.0	Roadway/Open Space	-	-	0.03
2936	669259.0	4280635.0	Roadway/Open Space	-	-	0.04
2937	669269.0	4280635.0	Roadway/Open Space	-	-	0.04
2938	669279.0	4280635.0	Roadway/Open Space	-	-	0.03
2939	669289.0	4280635.0	Roadway/Open Space	-	-	0.03
2940	669299.0	4280635.0	Roadway/Open Space	-	-	0.03
2941	669309.0	4280635.0	Roadway/Open Space	-	-	0.03
2942	669319.0	4280635.0	Roadway/Open Space	-	-	0.03
2943	669329.0	4280635.0	Roadway/Open Space	-	-	0.03
2944	669339.0	4280635.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
2945	669349.0	4280635.0	Roadway/Open Space	-	-	0.03
2946	669359.0	4280635.0	Roadway/Open Space	-	-	0.03
2947	669369.0	4280635.0	Roadway/Open Space	-	-	0.03
2948	669379.0	4280635.0	Roadway/Open Space	-	-	0.03
2949	669389.0	4280635.0	Roadway/Open Space	-	-	0.03
2950	669399.0	4280635.0	Roadway/Open Space	-	-	0.02
2951	669409.0	4280635.0	Roadway/Open Space	-	-	0.02
2952	669419.0	4280635.0	Roadway/Open Space	-	-	0.02
2953	669429.0	4280635.0	Roadway/Open Space	-	-	0.02
2954	669439.0	4280635.0	Roadway/Open Space	-	-	0.02
2955	669449.0	4280635.0	Roadway/Open Space	-	-	0.02
2956	669459.0	4280635.0	Roadway/Open Space	-	-	0.02
2957	669469.0	4280635.0	Roadway/Open Space	-	-	0.02
2958	669479.0	4280635.0	Roadway/Open Space	-	-	0.02
2959	669489.0	4280635.0	Roadway/Open Space	-	-	0.02
2960	669499.0	4280635.0	Roadway/Open Space	-	-	0.02
2961	669509.0	4280635.0	Roadway/Open Space	-	-	0.02
2962	669519.0	4280635.0	Roadway/Open Space	-	-	0.02
2963	669529.0	4280635.0	Roadway/Open Space	-	-	0.02
2964	669539.0	4280635.0	Roadway/Open Space	-	-	0.02
2965	669549.0	4280635.0	Roadway/Open Space	-	-	0.02
2966	669559.0	4280635.0	Roadway/Open Space	-	-	0.02
2967	669569.0	4280635.0	Roadway/Open Space	-	-	0.02
2968	669579.0	4280635.0	Roadway/Open Space	-	-	0.02
2969	669589.0	4280635.0	Roadway/Open Space	-	-	0.02
2970	669599.0	4280635.0	Roadway/Open Space	-	-	0.02
2971	668589.0	4280645.0	Roadway/Open Space	-	-	0.03
2972	668599.0	4280645.0	Roadway/Open Space	-	-	0.03
2973	668609.0	4280645.0	Roadway/Open Space	-	-	0.03
2974	668619.0	4280645.0	Roadway/Open Space	-	-	0.02
2975	668629.0	4280645.0	Roadway/Open Space	-	-	0.02
2976	668639.0	4280645.0	Roadway/Open Space	-	-	0.02
2977	668649.0	4280645.0	Roadway/Open Space	-	-	0.02
2978	668659.0	4280645.0	Roadway/Open Space	-	-	0.02
2979	668669.0	4280645.0	Roadway/Open Space	-	-	0.02
2980	668679.0	4280645.0	Roadway/Open Space	-	-	0.02
2981	668689.0	4280645.0	Roadway/Open Space	-	-	0.02
2982	668699.0	4280645.0	Roadway/Open Space	-	-	0.03
2983	668709.0	4280645.0	Roadway/Open Space	-	-	0.03
2984	668719.0	4280645.0	Roadway/Open Space	-	-	0.03
2985	668729.0	4280645.0	Roadway/Open Space	-	-	0.03
2986	668739.0	4280645.0	Roadway/Open Space	-	-	0.03
2987	668749.0	4280645.0	Roadway/Open Space	-	-	0.03
2988	668759.0	4280645.0	Roadway/Open Space	-	-	0.03
2989	668769.0	4280645.0	Roadway/Open Space	-	-	0.03
2990	668779.0	4280645.0	Roadway/Open Space	-	-	0.03
2991	668789.0	4280645.0	Roadway/Open Space	-	-	0.03
2992	668799.0	4280645.0	Roadway/Open Space	-	-	0.03
2993	668809.0	4280645.0	Roadway/Open Space	-	-	0.03
2994	668819.0	4280645.0	Roadway/Open Space	-	-	0.04
2995	668829.0	4280645.0	Roadway/Open Space	-	-	0.04
2996	668839.0	4280645.0	Roadway/Open Space	-	-	0.04
2997	668849.0	4280645.0	Roadway/Open Space	-	-	0.04
2998	668859.0	4280645.0	Roadway/Open Space	-	-	0.04
2999	668869.0	4280645.0	Roadway/Open Space	-	-	0.03
3000	668879.0	4280645.0	Roadway/Open Space	-	-	0.03
3001	668889.0	4280645.0	Roadway/Open Space	-	-	0.03
3002	668899.0	4280645.0	Roadway/Open Space	-	-	0.03
3003	668909.0	4280645.0	Roadway/Open Space	-	-	0.03
3004	668919.0	4280645.0	Roadway/Open Space	-	-	0.03
3005	668929.0	4280645.0	Roadway/Open Space	-	-	0.03
3006	668939.0	4280645.0	Roadway/Open Space	-	-	0.03
3007	668949.0	4280645.0	Roadway/Open Space	-	-	0.03
3008	668959.0	4280645.0	Roadway/Open Space	-	-	0.03
3009	668969.0	4280645.0	Roadway/Open Space	-	-	0.03
3010	668979.0	4280645.0	Roadway/Open Space	-	-	0.04
3011	668989.0	4280645.0	Roadway/Open Space	-	-	0.04
3012	668999.0	4280645.0	Roadway/Open Space	-	-	0.04
3013	669009.0	4280645.0	Roadway/Open Space	-	-	0.03
3014	669019.0	4280645.0	Roadway/Open Space	-	-	0.04
3015	669029.0	4280645.0	Roadway/Open Space	-	-	0.04
3020	669079.0	4280645.0	Roadway/Open Space	-	-	0.04
3021	669089.0	4280645.0	Roadway/Open Space	-	-	0.04
3022	669099.0	4280645.0	Roadway/Open Space	-	-	0.04
3023	669109.0	4280645.0	Roadway/Open Space	-	-	0.04
3024	669119.0	4280645.0	Roadway/Open Space	-	-	0.04
3025	669129.0	4280645.0	Roadway/Open Space	-	-	0.04
3026	669139.0	4280645.0	Roadway/Open Space	-	-	0.04
3027	669149.0	4280645.0	Roadway/Open Space	-	-	0.04
3028	669159.0	4280645.0	Roadway/Open Space	-	-	0.04
3029	669169.0	4280645.0	Roadway/Open Space	-	-	0.04
3030	669179.0	4280645.0	Roadway/Open Space	-	-	0.04
3031	669189.0	4280645.0	Roadway/Open Space	-	-	0.04
3032	669199.0	4280645.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3033	669209.0	4280645.0	Roadway/Open Space	-	-	0.04
3034	669219.0	4280645.0	Roadway/Open Space	-	-	0.04
3035	669229.0	4280645.0	Roadway/Open Space	-	-	0.04
3036	669239.0	4280645.0	Roadway/Open Space	-	-	0.04
3037	669249.0	4280645.0	Roadway/Open Space	-	-	0.04
3038	669259.0	4280645.0	Roadway/Open Space	-	-	0.04
3039	669269.0	4280645.0	Roadway/Open Space	-	-	0.04
3040	669279.0	4280645.0	Roadway/Open Space	-	-	0.04
3041	669289.0	4280645.0	Roadway/Open Space	-	-	0.04
3042	669299.0	4280645.0	Roadway/Open Space	-	-	0.03
3043	669309.0	4280645.0	Roadway/Open Space	-	-	0.03
3044	669319.0	4280645.0	Roadway/Open Space	-	-	0.03
3045	669329.0	4280645.0	Roadway/Open Space	-	-	0.03
3046	669339.0	4280645.0	Roadway/Open Space	-	-	0.03
3047	669349.0	4280645.0	Roadway/Open Space	-	-	0.03
3048	669359.0	4280645.0	Roadway/Open Space	-	-	0.03
3049	669369.0	4280645.0	Roadway/Open Space	-	-	0.03
3050	669379.0	4280645.0	Roadway/Open Space	-	-	0.03
3051	669389.0	4280645.0	Roadway/Open Space	-	-	0.03
3052	669399.0	4280645.0	Roadway/Open Space	-	-	0.02
3053	669409.0	4280645.0	Roadway/Open Space	-	-	0.02
3054	669419.0	4280645.0	Roadway/Open Space	-	-	0.02
3055	669429.0	4280645.0	Roadway/Open Space	-	-	0.02
3056	669439.0	4280645.0	Roadway/Open Space	-	-	0.02
3057	669449.0	4280645.0	Roadway/Open Space	-	-	0.02
3058	669459.0	4280645.0	Roadway/Open Space	-	-	0.02
3059	669469.0	4280645.0	Roadway/Open Space	-	-	0.02
3060	669479.0	4280645.0	Roadway/Open Space	-	-	0.02
3061	669489.0	4280645.0	Roadway/Open Space	-	-	0.02
3062	669499.0	4280645.0	Roadway/Open Space	-	-	0.02
3063	669509.0	4280645.0	Roadway/Open Space	-	-	0.02
3064	669519.0	4280645.0	Roadway/Open Space	-	-	0.02
3065	669529.0	4280645.0	Roadway/Open Space	-	-	0.02
3066	669539.0	4280645.0	Roadway/Open Space	-	-	0.02
3067	669549.0	4280645.0	Roadway/Open Space	-	-	0.02
3068	669559.0	4280645.0	Roadway/Open Space	-	-	0.02
3069	669569.0	4280645.0	Roadway/Open Space	-	-	0.02
3070	669579.0	4280645.0	Roadway/Open Space	-	-	0.02
3071	669589.0	4280645.0	Roadway/Open Space	-	-	0.02
3072	669599.0	4280645.0	Roadway/Open Space	-	-	0.02
3073	668589.0	4280655.0	Roadway/Open Space	-	-	0.03
3074	668599.0	4280655.0	Roadway/Open Space	-	-	0.03
3075	668609.0	4280655.0	Roadway/Open Space	-	-	0.03
3076	668619.0	4280655.0	Roadway/Open Space	-	-	0.02
3077	668629.0	4280655.0	Roadway/Open Space	-	-	0.02
3078	668639.0	4280655.0	Roadway/Open Space	-	-	0.02
3079	668649.0	4280655.0	Roadway/Open Space	-	-	0.02
3080	668659.0	4280655.0	Roadway/Open Space	-	-	0.02
3081	668669.0	4280655.0	Roadway/Open Space	-	-	0.02
3082	668679.0	4280655.0	Roadway/Open Space	-	-	0.03
3083	668689.0	4280655.0	Roadway/Open Space	-	-	0.03
3084	668699.0	4280655.0	Roadway/Open Space	-	-	0.03
3085	668709.0	4280655.0	Roadway/Open Space	-	-	0.03
3086	668719.0	4280655.0	Roadway/Open Space	-	-	0.03
3087	668729.0	4280655.0	Roadway/Open Space	-	-	0.03
3088	668739.0	4280655.0	Roadway/Open Space	-	-	0.04
3089	668749.0	4280655.0	Roadway/Open Space	-	-	0.04
3090	668759.0	4280655.0	Roadway/Open Space	-	-	0.04
3091	668769.0	4280655.0	Roadway/Open Space	-	-	0.03
3092	668779.0	4280655.0	Roadway/Open Space	-	-	0.03
3093	668789.0	4280655.0	Roadway/Open Space	-	-	0.03
3094	668799.0	4280655.0	Roadway/Open Space	-	-	0.03
3095	668809.0	4280655.0	Roadway/Open Space	-	-	0.04
3096	668819.0	4280655.0	Roadway/Open Space	-	-	0.04
3097	668829.0	4280655.0	Roadway/Open Space	-	-	0.04
3098	668839.0	4280655.0	Roadway/Open Space	-	-	0.04
3099	668849.0	4280655.0	Roadway/Open Space	-	-	0.04
3100	668859.0	4280655.0	Roadway/Open Space	-	-	0.04
3101	668869.0	4280655.0	Roadway/Open Space	-	-	0.04
3102	668879.0	4280655.0	Roadway/Open Space	-	-	0.03
3103	668889.0	4280655.0	Roadway/Open Space	-	-	0.03
3104	668899.0	4280655.0	Roadway/Open Space	-	-	0.03
3105	668909.0	4280655.0	Roadway/Open Space	-	-	0.03
3106	668919.0	4280655.0	Roadway/Open Space	-	-	0.03
3107	668929.0	4280655.0	Roadway/Open Space	-	-	0.03
3108	668939.0	4280655.0	Roadway/Open Space	-	-	0.03
3109	668949.0	4280655.0	Roadway/Open Space	-	-	0.03
3110	668959.0	4280655.0	Roadway/Open Space	-	-	0.03
3111	668969.0	4280655.0	Roadway/Open Space	-	-	0.04
3112	668979.0	4280655.0	Roadway/Open Space	-	-	0.04
3113	668989.0	4280655.0	Roadway/Open Space	-	-	0.04
3114	668999.0	4280655.0	Roadway/Open Space	-	-	0.04
3115	669009.0	4280655.0	Roadway/Open Space	-	-	0.04
3116	669019.0	4280655.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3123	669089.0	4280655.0	Roadway/Open Space	-	-	0.04
3124	669099.0	4280655.0	Roadway/Open Space	-	-	0.04
3125	669109.0	4280655.0	Roadway/Open Space	-	-	0.04
3126	669119.0	4280655.0	Roadway/Open Space	-	-	0.04
3127	669129.0	4280655.0	Roadway/Open Space	-	-	0.04
3128	669139.0	4280655.0	Roadway/Open Space	-	-	0.04
3129	669149.0	4280655.0	Roadway/Open Space	-	-	0.04
3130	669159.0	4280655.0	Roadway/Open Space	-	-	0.04
3131	669169.0	4280655.0	Roadway/Open Space	-	-	0.04
3132	669179.0	4280655.0	Roadway/Open Space	-	-	0.04
3133	669189.0	4280655.0	Roadway/Open Space	-	-	0.04
3134	669199.0	4280655.0	Roadway/Open Space	-	-	0.04
3135	669209.0	4280655.0	Roadway/Open Space	-	-	0.04
3136	669219.0	4280655.0	Roadway/Open Space	-	-	0.04
3137	669229.0	4280655.0	Roadway/Open Space	-	-	0.04
3138	669239.0	4280655.0	Roadway/Open Space	-	-	0.04
3139	669249.0	4280655.0	Roadway/Open Space	-	-	0.04
3140	669259.0	4280655.0	Roadway/Open Space	-	-	0.04
3141	669269.0	4280655.0	Roadway/Open Space	-	-	0.04
3142	669279.0	4280655.0	Roadway/Open Space	-	-	0.04
3143	669289.0	4280655.0	Roadway/Open Space	-	-	0.04
3144	669299.0	4280655.0	Roadway/Open Space	-	-	0.04
3145	669309.0	4280655.0	Roadway/Open Space	-	-	0.04
3146	669319.0	4280655.0	Roadway/Open Space	-	-	0.04
3147	669329.0	4280655.0	Roadway/Open Space	-	-	0.03
3148	669339.0	4280655.0	Roadway/Open Space	-	-	0.03
3149	669349.0	4280655.0	Roadway/Open Space	-	-	0.03
3150	669359.0	4280655.0	Roadway/Open Space	-	-	0.03
3151	669369.0	4280655.0	Roadway/Open Space	-	-	0.03
3152	669379.0	4280655.0	Roadway/Open Space	-	-	0.03
3153	669389.0	4280655.0	Roadway/Open Space	-	-	0.03
3154	669399.0	4280655.0	Roadway/Open Space	-	-	0.03
3155	669409.0	4280655.0	Roadway/Open Space	-	-	0.02
3156	669419.0	4280655.0	Roadway/Open Space	-	-	0.02
3157	669429.0	4280655.0	Roadway/Open Space	-	-	0.03
3158	669439.0	4280655.0	Roadway/Open Space	-	-	0.03
3159	669449.0	4280655.0	Roadway/Open Space	-	-	0.02
3160	669459.0	4280655.0	Roadway/Open Space	-	-	0.02
3161	669469.0	4280655.0	Roadway/Open Space	-	-	0.02
3162	669479.0	4280655.0	Roadway/Open Space	-	-	0.02
3163	669489.0	4280655.0	Roadway/Open Space	-	-	0.02
3164	669499.0	4280655.0	Roadway/Open Space	-	-	0.02
3165	669509.0	4280655.0	Roadway/Open Space	-	-	0.02
3166	669519.0	4280655.0	Roadway/Open Space	-	-	0.02
3167	669529.0	4280655.0	Roadway/Open Space	-	-	0.02
3168	669539.0	4280655.0	Roadway/Open Space	-	-	0.02
3169	669549.0	4280655.0	Roadway/Open Space	-	-	0.02
3170	669559.0	4280655.0	Roadway/Open Space	-	-	0.02
3171	669569.0	4280655.0	Roadway/Open Space	-	-	0.02
3172	669579.0	4280655.0	Roadway/Open Space	-	-	0.02
3173	669589.0	4280655.0	Roadway/Open Space	-	-	0.02
3174	669599.0	4280655.0	Roadway/Open Space	-	-	0.02
3175	669609.0	4280655.0	Roadway/Open Space	-	-	0.02
3176	668579.0	4280665.0	Roadway/Open Space	-	-	0.03
3177	668589.0	4280665.0	Roadway/Open Space	-	-	0.03
3178	668599.0	4280665.0	Roadway/Open Space	-	-	0.03
3179	668609.0	4280665.0	Roadway/Open Space	-	-	0.03
3180	668619.0	4280665.0	Roadway/Open Space	-	-	0.02
3181	668629.0	4280665.0	Roadway/Open Space	-	-	0.02
3182	668639.0	4280665.0	Roadway/Open Space	-	-	0.02
3183	668649.0	4280665.0	Roadway/Open Space	-	-	0.02
3184	668659.0	4280665.0	Roadway/Open Space	-	-	0.03
3185	668669.0	4280665.0	Roadway/Open Space	-	-	0.03
3186	668679.0	4280665.0	Roadway/Open Space	-	-	0.03
3187	668689.0	4280665.0	Roadway/Open Space	-	-	0.03
3188	668699.0	4280665.0	Roadway/Open Space	-	-	0.03
3189	668709.0	4280665.0	Residential	0.30	0.001	0.03
3190	668719.0	4280665.0	Residential	0.31	0.001	0.03
3191	668729.0	4280665.0	Residential	0.32	0.001	0.03
3192	668739.0	4280665.0	Residential	0.34	0.001	0.04
3193	668749.0	4280665.0	Roadway/Open Space	-	-	0.04
3194	668759.0	4280665.0	Roadway/Open Space	-	-	0.04
3195	668769.0	4280665.0	Roadway/Open Space	-	-	0.04
3196	668779.0	4280665.0	Roadway/Open Space	-	-	0.03
3197	668789.0	4280665.0	Roadway/Open Space	-	-	0.03
3198	668799.0	4280665.0	Roadway/Open Space	-	-	0.03
3199	668809.0	4280665.0	Roadway/Open Space	-	-	0.04
3200	668819.0	4280665.0	Roadway/Open Space	-	-	0.04
3201	668829.0	4280665.0	Roadway/Open Space	-	-	0.04
3202	668839.0	4280665.0	Roadway/Open Space	-	-	0.04
3203	668849.0	4280665.0	Roadway/Open Space	-	-	0.04
3204	668859.0	4280665.0	Roadway/Open Space	-	-	0.04
3205	668869.0	4280665.0	Roadway/Open Space	-	-	0.04
3206	668879.0	4280665.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3207	668889.0	4280665.0	Roadway/Open Space	-	-	0.04
3208	668899.0	4280665.0	Roadway/Open Space	-	-	0.04
3209	668909.0	4280665.0	Roadway/Open Space	-	-	0.04
3210	668919.0	4280665.0	Roadway/Open Space	-	-	0.04
3211	668929.0	4280665.0	Roadway/Open Space	-	-	0.03
3212	668939.0	4280665.0	Roadway/Open Space	-	-	0.03
3213	668949.0	4280665.0	Roadway/Open Space	-	-	0.03
3214	668959.0	4280665.0	Roadway/Open Space	-	-	0.03
3215	668969.0	4280665.0	Roadway/Open Space	-	-	0.04
3216	668979.0	4280665.0	Roadway/Open Space	-	-	0.04
3217	668989.0	4280665.0	Roadway/Open Space	-	-	0.04
3218	668999.0	4280665.0	Roadway/Open Space	-	-	0.04
3219	669009.0	4280665.0	Roadway/Open Space	-	-	0.04
3228	669099.0	4280665.0	Roadway/Open Space	-	-	0.04
3229	669109.0	4280665.0	Roadway/Open Space	-	-	0.04
3230	669119.0	4280665.0	Roadway/Open Space	-	-	0.04
3231	669129.0	4280665.0	Roadway/Open Space	-	-	0.04
3232	669139.0	4280665.0	Roadway/Open Space	-	-	0.04
3233	669149.0	4280665.0	Roadway/Open Space	-	-	0.04
3234	669159.0	4280665.0	Roadway/Open Space	-	-	0.04
3235	669169.0	4280665.0	Roadway/Open Space	-	-	0.04
3236	669179.0	4280665.0	Roadway/Open Space	-	-	0.04
3237	669189.0	4280665.0	Roadway/Open Space	-	-	0.04
3238	669199.0	4280665.0	Roadway/Open Space	-	-	0.04
3239	669209.0	4280665.0	Roadway/Open Space	-	-	0.04
3240	669219.0	4280665.0	Roadway/Open Space	-	-	0.04
3241	669229.0	4280665.0	Roadway/Open Space	-	-	0.04
3242	669239.0	4280665.0	Roadway/Open Space	-	-	0.04
3243	669249.0	4280665.0	Roadway/Open Space	-	-	0.05
3244	669259.0	4280665.0	Roadway/Open Space	-	-	0.05
3245	669269.0	4280665.0	Roadway/Open Space	-	-	0.05
3246	669279.0	4280665.0	Roadway/Open Space	-	-	0.05
3247	669289.0	4280665.0	Roadway/Open Space	-	-	0.04
3248	669299.0	4280665.0	Roadway/Open Space	-	-	0.04
3249	669309.0	4280665.0	Roadway/Open Space	-	-	0.04
3250	669319.0	4280665.0	Roadway/Open Space	-	-	0.04
3251	669329.0	4280665.0	Roadway/Open Space	-	-	0.04
3252	669339.0	4280665.0	Roadway/Open Space	-	-	0.04
3253	669349.0	4280665.0	Roadway/Open Space	-	-	0.03
3254	669359.0	4280665.0	Roadway/Open Space	-	-	0.03
3255	669369.0	4280665.0	Roadway/Open Space	-	-	0.03
3256	669379.0	4280665.0	Roadway/Open Space	-	-	0.03
3257	669389.0	4280665.0	Roadway/Open Space	-	-	0.03
3258	669399.0	4280665.0	Roadway/Open Space	-	-	0.03
3259	669409.0	4280665.0	Roadway/Open Space	-	-	0.03
3260	669419.0	4280665.0	Roadway/Open Space	-	-	0.03
3261	669429.0	4280665.0	Roadway/Open Space	-	-	0.03
3262	669439.0	4280665.0	Roadway/Open Space	-	-	0.03
3263	669449.0	4280665.0	Roadway/Open Space	-	-	0.03
3264	669459.0	4280665.0	Roadway/Open Space	-	-	0.03
3265	669469.0	4280665.0	Roadway/Open Space	-	-	0.03
3266	669479.0	4280665.0	Roadway/Open Space	-	-	0.02
3267	669489.0	4280665.0	Roadway/Open Space	-	-	0.02
3268	669499.0	4280665.0	Roadway/Open Space	-	-	0.02
3269	669509.0	4280665.0	Roadway/Open Space	-	-	0.02
3270	669519.0	4280665.0	Roadway/Open Space	-	-	0.02
3271	669529.0	4280665.0	Roadway/Open Space	-	-	0.02
3272	669539.0	4280665.0	Roadway/Open Space	-	-	0.02
3273	669549.0	4280665.0	Roadway/Open Space	-	-	0.02
3274	669559.0	4280665.0	Roadway/Open Space	-	-	0.02
3275	669569.0	4280665.0	Roadway/Open Space	-	-	0.02
3276	669579.0	4280665.0	Roadway/Open Space	-	-	0.02
3277	669589.0	4280665.0	Roadway/Open Space	-	-	0.02
3278	669599.0	4280665.0	Roadway/Open Space	-	-	0.02
3279	669609.0	4280665.0	Roadway/Open Space	-	-	0.02
3280	668579.0	4280675.0	Roadway/Open Space	-	-	0.03
3281	668589.0	4280675.0	Roadway/Open Space	-	-	0.03
3282	668599.0	4280675.0	Roadway/Open Space	-	-	0.03
3283	668609.0	4280675.0	Roadway/Open Space	-	-	0.03
3284	668619.0	4280675.0	Roadway/Open Space	-	-	0.02
3285	668629.0	4280675.0	Roadway/Open Space	-	-	0.02
3286	668639.0	4280675.0	Roadway/Open Space	-	-	0.02
3287	668649.0	4280675.0	Roadway/Open Space	-	-	0.03
3288	668659.0	4280675.0	Roadway/Open Space	-	-	0.03
3289	668669.0	4280675.0	Roadway/Open Space	-	-	0.03
3290	668679.0	4280675.0	Roadway/Open Space	-	-	0.03
3291	668689.0	4280675.0	Roadway/Open Space	-	-	0.03
3292	668699.0	4280675.0	Residential	0.28	0.001	0.03
3293	668709.0	4280675.0	Residential	0.28	0.001	0.03
3294	668719.0	4280675.0	Residential	0.29	0.001	0.03
3295	668729.0	4280675.0	Residential	0.31	0.001	0.03
3296	668739.0	4280675.0	Residential	0.33	0.001	0.04
3297	668749.0	4280675.0	Residential	0.36	0.001	0.04
3298	668759.0	4280675.0	Residential	0.39	0.001	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3299	668769.0	4280675.0	Roadway/Open Space	-	-	0.04
3300	668779.0	4280675.0	Roadway/Open Space	-	-	0.04
3301	668789.0	4280675.0	Roadway/Open Space	-	-	0.03
3302	668799.0	4280675.0	Roadway/Open Space	-	-	0.03
3303	668809.0	4280675.0	Roadway/Open Space	-	-	0.04
3304	668819.0	4280675.0	Roadway/Open Space	-	-	0.04
3305	668829.0	4280675.0	Roadway/Open Space	-	-	0.04
3306	668839.0	4280675.0	Roadway/Open Space	-	-	0.04
3307	668849.0	4280675.0	Roadway/Open Space	-	-	0.04
3308	668859.0	4280675.0	Roadway/Open Space	-	-	0.04
3309	668869.0	4280675.0	Roadway/Open Space	-	-	0.04
3310	668879.0	4280675.0	Roadway/Open Space	-	-	0.04
3311	668889.0	4280675.0	Roadway/Open Space	-	-	0.04
3312	668899.0	4280675.0	Roadway/Open Space	-	-	0.04
3313	668909.0	4280675.0	Roadway/Open Space	-	-	0.04
3314	668919.0	4280675.0	Roadway/Open Space	-	-	0.04
3315	668929.0	4280675.0	Roadway/Open Space	-	-	0.04
3316	668939.0	4280675.0	Roadway/Open Space	-	-	0.04
3317	668949.0	4280675.0	Roadway/Open Space	-	-	0.04
3318	668959.0	4280675.0	Roadway/Open Space	-	-	0.04
3319	668969.0	4280675.0	Roadway/Open Space	-	-	0.04
3320	668979.0	4280675.0	Roadway/Open Space	-	-	0.04
3321	668989.0	4280675.0	Roadway/Open Space	-	-	0.04
3322	668999.0	4280675.0	Roadway/Open Space	-	-	0.04
3323	669009.0	4280675.0	Roadway/Open Space	-	-	0.04
3333	669109.0	4280675.0	Roadway/Open Space	-	-	0.04
3334	669119.0	4280675.0	Roadway/Open Space	-	-	0.04
3335	669129.0	4280675.0	Roadway/Open Space	-	-	0.04
3336	669139.0	4280675.0	Roadway/Open Space	-	-	0.04
3337	669149.0	4280675.0	Roadway/Open Space	-	-	0.04
3338	669159.0	4280675.0	Roadway/Open Space	-	-	0.04
3339	669169.0	4280675.0	Roadway/Open Space	-	-	0.04
3340	669179.0	4280675.0	Roadway/Open Space	-	-	0.04
3341	669189.0	4280675.0	Roadway/Open Space	-	-	0.04
3342	669199.0	4280675.0	Roadway/Open Space	-	-	0.04
3343	669209.0	4280675.0	Roadway/Open Space	-	-	0.04
3344	669219.0	4280675.0	Roadway/Open Space	-	-	0.04
3345	669229.0	4280675.0	Roadway/Open Space	-	-	0.04
3346	669239.0	4280675.0	Roadway/Open Space	-	-	0.04
3347	669249.0	4280675.0	Roadway/Open Space	-	-	0.05
3348	669259.0	4280675.0	Roadway/Open Space	-	-	0.05
3349	669269.0	4280675.0	Roadway/Open Space	-	-	0.05
3350	669279.0	4280675.0	Roadway/Open Space	-	-	0.05
3351	669289.0	4280675.0	Roadway/Open Space	-	-	0.04
3352	669299.0	4280675.0	Roadway/Open Space	-	-	0.04
3353	669309.0	4280675.0	Roadway/Open Space	-	-	0.04
3354	669319.0	4280675.0	Roadway/Open Space	-	-	0.04
3355	669329.0	4280675.0	Roadway/Open Space	-	-	0.04
3356	669339.0	4280675.0	Roadway/Open Space	-	-	0.04
3357	669349.0	4280675.0	Roadway/Open Space	-	-	0.03
3358	669359.0	4280675.0	Roadway/Open Space	-	-	0.03
3359	669369.0	4280675.0	Roadway/Open Space	-	-	0.03
3360	669379.0	4280675.0	Roadway/Open Space	-	-	0.03
3361	669389.0	4280675.0	Roadway/Open Space	-	-	0.03
3362	669399.0	4280675.0	Roadway/Open Space	-	-	0.03
3363	669409.0	4280675.0	Roadway/Open Space	-	-	0.03
3364	669419.0	4280675.0	Roadway/Open Space	-	-	0.03
3365	669429.0	4280675.0	Roadway/Open Space	-	-	0.03
3366	669439.0	4280675.0	Roadway/Open Space	-	-	0.03
3367	669449.0	4280675.0	Roadway/Open Space	-	-	0.03
3368	669459.0	4280675.0	Roadway/Open Space	-	-	0.03
3369	669469.0	4280675.0	Roadway/Open Space	-	-	0.03
3370	669479.0	4280675.0	Roadway/Open Space	-	-	0.02
3371	669489.0	4280675.0	Roadway/Open Space	-	-	0.02
3372	669499.0	4280675.0	Roadway/Open Space	-	-	0.02
3373	669509.0	4280675.0	Roadway/Open Space	-	-	0.02
3374	669519.0	4280675.0	Roadway/Open Space	-	-	0.02
3375	669529.0	4280675.0	Roadway/Open Space	-	-	0.02
3376	669539.0	4280675.0	Roadway/Open Space	-	-	0.02
3377	669549.0	4280675.0	Roadway/Open Space	-	-	0.02
3378	669559.0	4280675.0	Roadway/Open Space	-	-	0.02
3379	669569.0	4280675.0	Roadway/Open Space	-	-	0.02
3380	669579.0	4280675.0	Roadway/Open Space	-	-	0.02
3381	669589.0	4280675.0	Roadway/Open Space	-	-	0.02
3382	669599.0	4280675.0	Roadway/Open Space	-	-	0.02
3383	669609.0	4280675.0	Roadway/Open Space	-	-	0.02
3384	668569.0	4280685.0	Roadway/Open Space	-	-	0.03
3385	668579.0	4280685.0	Roadway/Open Space	-	-	0.03
3386	668589.0	4280685.0	Roadway/Open Space	-	-	0.03
3387	668599.0	4280685.0	Roadway/Open Space	-	-	0.03
3388	668609.0	4280685.0	Roadway/Open Space	-	-	0.02
3389	668619.0	4280685.0	Roadway/Open Space	-	-	0.02
3390	668629.0	4280685.0	Roadway/Open Space	-	-	0.02
3391	668639.0	4280685.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3392	668649.0	4280685.0	Roadway/Open Space	-	-	0.03
3393	668659.0	4280685.0	Roadway/Open Space	-	-	0.03
3394	668669.0	4280685.0	Roadway/Open Space	-	-	0.03
3395	668679.0	4280685.0	Roadway/Open Space	-	-	0.03
3396	668689.0	4280685.0	Residential	0.26	0.001	0.03
3397	668699.0	4280685.0	Residential	0.26	0.001	0.03
3398	668709.0	4280685.0	Residential	0.27	0.001	0.03
3399	668719.0	4280685.0	Residential	0.28	0.001	0.03
3400	668729.0	4280685.0	Residential	0.30	0.001	0.03
3401	668739.0	4280685.0	Residential	0.32	0.001	0.03
3402	668749.0	4280685.0	Residential	0.35	0.001	0.04
3403	668759.0	4280685.0	Residential	0.38	0.001	0.04
3404	668769.0	4280685.0	Residential	0.43	0.002	0.04
3405	668779.0	4280685.0	Roadway/Open Space	-	-	0.04
3406	668789.0	4280685.0	Roadway/Open Space	-	-	0.04
3407	668799.0	4280685.0	Roadway/Open Space	-	-	0.03
3408	668809.0	4280685.0	Roadway/Open Space	-	-	0.04
3409	668819.0	4280685.0	Roadway/Open Space	-	-	0.04
3410	668829.0	4280685.0	Roadway/Open Space	-	-	0.04
3411	668839.0	4280685.0	Roadway/Open Space	-	-	0.04
3412	668849.0	4280685.0	Roadway/Open Space	-	-	0.04
3413	668859.0	4280685.0	Roadway/Open Space	-	-	0.04
3414	668869.0	4280685.0	Roadway/Open Space	-	-	0.04
3415	668879.0	4280685.0	Roadway/Open Space	-	-	0.04
3416	668889.0	4280685.0	Roadway/Open Space	-	-	0.04
3417	668899.0	4280685.0	Roadway/Open Space	-	-	0.04
3418	668909.0	4280685.0	Roadway/Open Space	-	-	0.04
3419	668919.0	4280685.0	Roadway/Open Space	-	-	0.04
3420	668929.0	4280685.0	Roadway/Open Space	-	-	0.04
3421	668939.0	4280685.0	Roadway/Open Space	-	-	0.04
3422	668949.0	4280685.0	Roadway/Open Space	-	-	0.04
3423	668959.0	4280685.0	Roadway/Open Space	-	-	0.04
3424	668969.0	4280685.0	Roadway/Open Space	-	-	0.04
3425	668979.0	4280685.0	Roadway/Open Space	-	-	0.04
3426	668989.0	4280685.0	Roadway/Open Space	-	-	0.04
3427	668999.0	4280685.0	Roadway/Open Space	-	-	0.04
3439	669119.0	4280685.0	Roadway/Open Space	-	-	0.04
3440	669129.0	4280685.0	Roadway/Open Space	-	-	0.04
3441	669139.0	4280685.0	Roadway/Open Space	-	-	0.04
3442	669149.0	4280685.0	Roadway/Open Space	-	-	0.04
3443	669159.0	4280685.0	Roadway/Open Space	-	-	0.04
3444	669169.0	4280685.0	Roadway/Open Space	-	-	0.04
3445	669179.0	4280685.0	Roadway/Open Space	-	-	0.04
3446	669189.0	4280685.0	Roadway/Open Space	-	-	0.04
3447	669199.0	4280685.0	Roadway/Open Space	-	-	0.04
3448	669209.0	4280685.0	Roadway/Open Space	-	-	0.04
3449	669219.0	4280685.0	Roadway/Open Space	-	-	0.04
3450	669229.0	4280685.0	Roadway/Open Space	-	-	0.04
3451	669239.0	4280685.0	Roadway/Open Space	-	-	0.04
3452	669249.0	4280685.0	Roadway/Open Space	-	-	0.05
3453	669259.0	4280685.0	Roadway/Open Space	-	-	0.05
3454	669269.0	4280685.0	Roadway/Open Space	-	-	0.05
3455	669279.0	4280685.0	Roadway/Open Space	-	-	0.05
3456	669289.0	4280685.0	Roadway/Open Space	-	-	0.04
3457	669299.0	4280685.0	Roadway/Open Space	-	-	0.04
3458	669309.0	4280685.0	Roadway/Open Space	-	-	0.04
3459	669319.0	4280685.0	Roadway/Open Space	-	-	0.04
3460	669329.0	4280685.0	Roadway/Open Space	-	-	0.04
3461	669339.0	4280685.0	Roadway/Open Space	-	-	0.04
3462	669349.0	4280685.0	Roadway/Open Space	-	-	0.03
3463	669359.0	4280685.0	Roadway/Open Space	-	-	0.03
3464	669369.0	4280685.0	Roadway/Open Space	-	-	0.03
3465	669379.0	4280685.0	Roadway/Open Space	-	-	0.03
3466	669389.0	4280685.0	Roadway/Open Space	-	-	0.03
3467	669399.0	4280685.0	Roadway/Open Space	-	-	0.03
3468	669409.0	4280685.0	Roadway/Open Space	-	-	0.03
3469	669419.0	4280685.0	Roadway/Open Space	-	-	0.03
3470	669429.0	4280685.0	Roadway/Open Space	-	-	0.03
3471	669439.0	4280685.0	Roadway/Open Space	-	-	0.03
3472	669449.0	4280685.0	Roadway/Open Space	-	-	0.03
3473	669459.0	4280685.0	Roadway/Open Space	-	-	0.03
3474	669469.0	4280685.0	Roadway/Open Space	-	-	0.03
3475	669479.0	4280685.0	Roadway/Open Space	-	-	0.03
3476	669489.0	4280685.0	Roadway/Open Space	-	-	0.02
3477	669499.0	4280685.0	Roadway/Open Space	-	-	0.02
3478	669509.0	4280685.0	Roadway/Open Space	-	-	0.02
3479	669519.0	4280685.0	Roadway/Open Space	-	-	0.02
3480	669529.0	4280685.0	Roadway/Open Space	-	-	0.02
3481	669539.0	4280685.0	Roadway/Open Space	-	-	0.02
3482	669549.0	4280685.0	Roadway/Open Space	-	-	0.02
3483	669559.0	4280685.0	Roadway/Open Space	-	-	0.02
3484	669569.0	4280685.0	Roadway/Open Space	-	-	0.02
3485	669579.0	4280685.0	Roadway/Open Space	-	-	0.02
3486	669589.0	4280685.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3487	669599.0	4280685.0	Roadway/Open Space	-	-	0.02
3488	669609.0	4280685.0	Roadway/Open Space	-	-	0.02
3489	668569.0	4280695.0	Roadway/Open Space	-	-	0.03
3490	668579.0	4280695.0	Roadway/Open Space	-	-	0.03
3491	668589.0	4280695.0	Roadway/Open Space	-	-	0.03
3492	668599.0	4280695.0	Roadway/Open Space	-	-	0.03
3493	668609.0	4280695.0	Roadway/Open Space	-	-	0.02
3494	668619.0	4280695.0	Roadway/Open Space	-	-	0.02
3495	668629.0	4280695.0	Roadway/Open Space	-	-	0.03
3496	668639.0	4280695.0	Roadway/Open Space	-	-	0.03
3497	668649.0	4280695.0	Roadway/Open Space	-	-	0.03
3498	668659.0	4280695.0	Roadway/Open Space	-	-	0.03
3499	668669.0	4280695.0	Roadway/Open Space	-	-	0.03
3500	668679.0	4280695.0	Residential	0.24	0.001	0.03
3501	668689.0	4280695.0	Residential	0.25	0.001	0.03
3502	668699.0	4280695.0	Residential	0.25	0.001	0.03
3503	668709.0	4280695.0	Residential	0.26	0.001	0.03
3504	668719.0	4280695.0	Residential	0.27	0.001	0.03
3505	668729.0	4280695.0	Residential	0.29	0.001	0.03
3506	668739.0	4280695.0	Residential	0.31	0.001	0.04
3507	668749.0	4280695.0	Residential	0.34	0.001	0.04
3508	668759.0	4280695.0	Residential	0.38	0.001	0.04
3509	668769.0	4280695.0	Residential	0.42	0.002	0.04
3510	668779.0	4280695.0	Roadway/Open Space	-	-	0.04
3511	668789.0	4280695.0	Roadway/Open Space	-	-	0.04
3512	668799.0	4280695.0	Roadway/Open Space	-	-	0.04
3513	668809.0	4280695.0	Roadway/Open Space	-	-	0.04
3514	668819.0	4280695.0	Roadway/Open Space	-	-	0.04
3515	668829.0	4280695.0	Roadway/Open Space	-	-	0.04
3516	668839.0	4280695.0	Roadway/Open Space	-	-	0.04
3517	668849.0	4280695.0	Roadway/Open Space	-	-	0.04
3518	668859.0	4280695.0	Roadway/Open Space	-	-	0.04
3519	668869.0	4280695.0	Roadway/Open Space	-	-	0.05
3520	668879.0	4280695.0	Roadway/Open Space	-	-	0.04
3521	668889.0	4280695.0	Roadway/Open Space	-	-	0.04
3522	668899.0	4280695.0	Roadway/Open Space	-	-	0.04
3523	668909.0	4280695.0	Roadway/Open Space	-	-	0.04
3524	668919.0	4280695.0	Roadway/Open Space	-	-	0.04
3525	668929.0	4280695.0	Roadway/Open Space	-	-	0.04
3526	668939.0	4280695.0	Roadway/Open Space	-	-	0.04
3527	668949.0	4280695.0	Roadway/Open Space	-	-	0.04
3528	668959.0	4280695.0	Roadway/Open Space	-	-	0.04
3529	668969.0	4280695.0	Roadway/Open Space	-	-	0.04
3530	668979.0	4280695.0	Roadway/Open Space	-	-	0.04
3531	668989.0	4280695.0	Roadway/Open Space	-	-	0.04
3532	668999.0	4280695.0	Roadway/Open Space	-	-	0.04
3545	669129.0	4280695.0	Roadway/Open Space	-	-	0.04
3546	669139.0	4280695.0	Roadway/Open Space	-	-	0.04
3547	669149.0	4280695.0	Roadway/Open Space	-	-	0.04
3548	669159.0	4280695.0	Roadway/Open Space	-	-	0.04
3549	669169.0	4280695.0	Roadway/Open Space	-	-	0.04
3550	669179.0	4280695.0	Roadway/Open Space	-	-	0.04
3551	669189.0	4280695.0	Roadway/Open Space	-	-	0.04
3552	669199.0	4280695.0	Roadway/Open Space	-	-	0.04
3553	669209.0	4280695.0	Roadway/Open Space	-	-	0.04
3554	669219.0	4280695.0	Roadway/Open Space	-	-	0.04
3555	669229.0	4280695.0	Roadway/Open Space	-	-	0.04
3556	669239.0	4280695.0	Roadway/Open Space	-	-	0.04
3557	669249.0	4280695.0	Roadway/Open Space	-	-	0.05
3558	669259.0	4280695.0	Roadway/Open Space	-	-	0.05
3559	669269.0	4280695.0	Roadway/Open Space	-	-	0.05
3560	669279.0	4280695.0	Roadway/Open Space	-	-	0.05
3561	669289.0	4280695.0	Roadway/Open Space	-	-	0.04
3562	669299.0	4280695.0	Roadway/Open Space	-	-	0.04
3563	669309.0	4280695.0	Roadway/Open Space	-	-	0.04
3564	669319.0	4280695.0	Roadway/Open Space	-	-	0.04
3565	669329.0	4280695.0	Roadway/Open Space	-	-	0.04
3566	669339.0	4280695.0	Roadway/Open Space	-	-	0.04
3567	669349.0	4280695.0	Roadway/Open Space	-	-	0.03
3568	669359.0	4280695.0	Roadway/Open Space	-	-	0.03
3569	669369.0	4280695.0	Roadway/Open Space	-	-	0.03
3570	669379.0	4280695.0	Roadway/Open Space	-	-	0.03
3571	669389.0	4280695.0	Roadway/Open Space	-	-	0.03
3572	669399.0	4280695.0	Roadway/Open Space	-	-	0.03
3573	669409.0	4280695.0	Roadway/Open Space	-	-	0.03
3574	669419.0	4280695.0	Roadway/Open Space	-	-	0.03
3575	669429.0	4280695.0	Roadway/Open Space	-	-	0.03
3576	669439.0	4280695.0	Roadway/Open Space	-	-	0.03
3577	669449.0	4280695.0	Roadway/Open Space	-	-	0.03
3578	669459.0	4280695.0	Roadway/Open Space	-	-	0.03
3579	669469.0	4280695.0	Roadway/Open Space	-	-	0.03
3580	669479.0	4280695.0	Roadway/Open Space	-	-	0.03
3581	669489.0	4280695.0	Roadway/Open Space	-	-	0.03
3582	669499.0	4280695.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3583	669509.0	4280695.0	Roadway/Open Space	-	-	0.02
3584	669519.0	4280695.0	Roadway/Open Space	-	-	0.02
3585	669529.0	4280695.0	Roadway/Open Space	-	-	0.02
3586	669539.0	4280695.0	Roadway/Open Space	-	-	0.02
3587	669549.0	4280695.0	Roadway/Open Space	-	-	0.02
3588	669559.0	4280695.0	Roadway/Open Space	-	-	0.02
3589	669569.0	4280695.0	Roadway/Open Space	-	-	0.02
3590	669579.0	4280695.0	Roadway/Open Space	-	-	0.02
3591	669589.0	4280695.0	Roadway/Open Space	-	-	0.02
3592	669599.0	4280695.0	Roadway/Open Space	-	-	0.02
3593	669609.0	4280695.0	Roadway/Open Space	-	-	0.02
3594	669619.0	4280695.0	Roadway/Open Space	-	-	0.02
3595	668569.0	4280705.0	Roadway/Open Space	-	-	0.03
3596	668579.0	4280705.0	Roadway/Open Space	-	-	0.03
3597	668589.0	4280705.0	Roadway/Open Space	-	-	0.03
3598	668599.0	4280705.0	Roadway/Open Space	-	-	0.03
3599	668609.0	4280705.0	Roadway/Open Space	-	-	0.02
3600	668619.0	4280705.0	Roadway/Open Space	-	-	0.03
3601	668629.0	4280705.0	Roadway/Open Space	-	-	0.03
3602	668639.0	4280705.0	Roadway/Open Space	-	-	0.03
3603	668649.0	4280705.0	Roadway/Open Space	-	-	0.03
3604	668659.0	4280705.0	Roadway/Open Space	-	-	0.03
3605	668669.0	4280705.0	Roadway/Open Space	-	-	0.03
3606	668679.0	4280705.0	Residential	0.23	0.001	0.03
3607	668689.0	4280705.0	Residential	0.23	0.001	0.03
3608	668699.0	4280705.0	Residential	0.24	0.001	0.03
3609	668709.0	4280705.0	Residential	0.25	0.001	0.03
3610	668719.0	4280705.0	Roadway/Open Space	-	-	0.03
3611	668729.0	4280705.0	Roadway/Open Space	-	-	0.03
3612	668739.0	4280705.0	Residential	0.30	0.001	0.04
3613	668749.0	4280705.0	Residential	0.33	0.001	0.04
3614	668759.0	4280705.0	Residential	0.37	0.001	0.04
3615	668769.0	4280705.0	Residential	0.40	0.001	0.04
3616	668779.0	4280705.0	Roadway/Open Space	-	-	0.04
3617	668789.0	4280705.0	Roadway/Open Space	-	-	0.04
3618	668799.0	4280705.0	Roadway/Open Space	-	-	0.04
3619	668809.0	4280705.0	Roadway/Open Space	-	-	0.04
3620	668819.0	4280705.0	Roadway/Open Space	-	-	0.04
3621	668829.0	4280705.0	Roadway/Open Space	-	-	0.04
3622	668839.0	4280705.0	Roadway/Open Space	-	-	0.04
3623	668849.0	4280705.0	Roadway/Open Space	-	-	0.04
3624	668859.0	4280705.0	Roadway/Open Space	-	-	0.05
3625	668869.0	4280705.0	Roadway/Open Space	-	-	0.05
3626	668879.0	4280705.0	Roadway/Open Space	-	-	0.05
3627	668889.0	4280705.0	Roadway/Open Space	-	-	0.04
3628	668899.0	4280705.0	Roadway/Open Space	-	-	0.04
3629	668909.0	4280705.0	Roadway/Open Space	-	-	0.04
3630	668919.0	4280705.0	Roadway/Open Space	-	-	0.04
3631	668929.0	4280705.0	Roadway/Open Space	-	-	0.04
3632	668939.0	4280705.0	Roadway/Open Space	-	-	0.04
3633	668949.0	4280705.0	Roadway/Open Space	-	-	0.04
3634	668959.0	4280705.0	Roadway/Open Space	-	-	0.04
3635	668969.0	4280705.0	Roadway/Open Space	-	-	0.04
3636	668979.0	4280705.0	Roadway/Open Space	-	-	0.04
3637	668989.0	4280705.0	Roadway/Open Space	-	-	0.04
3638	668999.0	4280705.0	Roadway/Open Space	-	-	0.04
3651	669129.0	4280705.0	Roadway/Open Space	-	-	0.05
3652	669139.0	4280705.0	Roadway/Open Space	-	-	0.05
3653	669149.0	4280705.0	Roadway/Open Space	-	-	0.04
3654	669159.0	4280705.0	Roadway/Open Space	-	-	0.05
3655	669169.0	4280705.0	Roadway/Open Space	-	-	0.05
3656	669179.0	4280705.0	Roadway/Open Space	-	-	0.05
3657	669189.0	4280705.0	Roadway/Open Space	-	-	0.05
3658	669199.0	4280705.0	Roadway/Open Space	-	-	0.05
3659	669209.0	4280705.0	Roadway/Open Space	-	-	0.05
3660	669219.0	4280705.0	Roadway/Open Space	-	-	0.04
3661	669229.0	4280705.0	Roadway/Open Space	-	-	0.04
3662	669239.0	4280705.0	Roadway/Open Space	-	-	0.05
3663	669249.0	4280705.0	Roadway/Open Space	-	-	0.05
3664	669259.0	4280705.0	Roadway/Open Space	-	-	0.05
3665	669269.0	4280705.0	Roadway/Open Space	-	-	0.05
3666	669279.0	4280705.0	Roadway/Open Space	-	-	0.05
3667	669289.0	4280705.0	Roadway/Open Space	-	-	0.05
3668	669299.0	4280705.0	Roadway/Open Space	-	-	0.04
3669	669309.0	4280705.0	Roadway/Open Space	-	-	0.04
3670	669319.0	4280705.0	Roadway/Open Space	-	-	0.04
3671	669329.0	4280705.0	Roadway/Open Space	-	-	0.04
3672	669339.0	4280705.0	Roadway/Open Space	-	-	0.04
3673	669349.0	4280705.0	Roadway/Open Space	-	-	0.03
3674	669359.0	4280705.0	Roadway/Open Space	-	-	0.03
3675	669369.0	4280705.0	Roadway/Open Space	-	-	0.03
3676	669379.0	4280705.0	Roadway/Open Space	-	-	0.03
3677	669389.0	4280705.0	Roadway/Open Space	-	-	0.03
3678	669399.0	4280705.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3679	669409.0	4280705.0	Roadway/Open Space	-	-	0.03
3680	669419.0	4280705.0	Roadway/Open Space	-	-	0.03
3681	669429.0	4280705.0	Roadway/Open Space	-	-	0.03
3682	669439.0	4280705.0	Roadway/Open Space	-	-	0.03
3683	669449.0	4280705.0	Roadway/Open Space	-	-	0.03
3684	669459.0	4280705.0	Roadway/Open Space	-	-	0.03
3685	669469.0	4280705.0	Roadway/Open Space	-	-	0.03
3686	669479.0	4280705.0	Roadway/Open Space	-	-	0.03
3687	669489.0	4280705.0	Roadway/Open Space	-	-	0.03
3688	669499.0	4280705.0	Roadway/Open Space	-	-	0.03
3689	669509.0	4280705.0	Roadway/Open Space	-	-	0.03
3690	669519.0	4280705.0	Roadway/Open Space	-	-	0.02
3691	669529.0	4280705.0	Roadway/Open Space	-	-	0.02
3692	669539.0	4280705.0	Roadway/Open Space	-	-	0.02
3693	669549.0	4280705.0	Roadway/Open Space	-	-	0.02
3694	669559.0	4280705.0	Roadway/Open Space	-	-	0.02
3695	669569.0	4280705.0	Roadway/Open Space	-	-	0.02
3696	669579.0	4280705.0	Roadway/Open Space	-	-	0.02
3697	669589.0	4280705.0	Roadway/Open Space	-	-	0.02
3698	669599.0	4280705.0	Roadway/Open Space	-	-	0.02
3699	669609.0	4280705.0	Roadway/Open Space	-	-	0.03
3700	669619.0	4280705.0	Roadway/Open Space	-	-	0.03
3701	668559.0	4280715.0	Roadway/Open Space	-	-	0.03
3702	668569.0	4280715.0	Roadway/Open Space	-	-	0.03
3703	668579.0	4280715.0	Roadway/Open Space	-	-	0.03
3704	668589.0	4280715.0	Roadway/Open Space	-	-	0.03
3705	668599.0	4280715.0	Roadway/Open Space	-	-	0.03
3706	668609.0	4280715.0	Roadway/Open Space	-	-	0.03
3707	668619.0	4280715.0	Roadway/Open Space	-	-	0.03
3708	668629.0	4280715.0	Roadway/Open Space	-	-	0.03
3709	668639.0	4280715.0	Roadway/Open Space	-	-	0.03
3710	668649.0	4280715.0	Roadway/Open Space	-	-	0.03
3711	668659.0	4280715.0	Roadway/Open Space	-	-	0.03
3712	668669.0	4280715.0	Roadway/Open Space	-	-	0.03
3713	668679.0	4280715.0	Residential	0.22	0.001	0.03
3714	668689.0	4280715.0	Residential	0.22	0.001	0.03
3715	668699.0	4280715.0	Residential	0.23	0.001	0.03
3716	668709.0	4280715.0	Residential	0.24	0.001	0.03
3717	668719.0	4280715.0	Roadway/Open Space	-	-	0.03
3718	668729.0	4280715.0	Roadway/Open Space	-	-	0.03
3719	668739.0	4280715.0	Residential	0.29	0.001	0.03
3720	668749.0	4280715.0	Residential	0.32	0.001	0.04
3721	668759.0	4280715.0	Residential	0.36	0.001	0.04
3722	668769.0	4280715.0	Residential	0.39	0.001	0.04
3723	668779.0	4280715.0	Roadway/Open Space	-	-	0.04
3724	668789.0	4280715.0	Roadway/Open Space	-	-	0.04
3725	668799.0	4280715.0	Roadway/Open Space	-	-	0.04
3726	668809.0	4280715.0	Roadway/Open Space	-	-	0.04
3727	668819.0	4280715.0	Roadway/Open Space	-	-	0.04
3728	668829.0	4280715.0	Roadway/Open Space	-	-	0.04
3729	668839.0	4280715.0	Roadway/Open Space	-	-	0.04
3730	668849.0	4280715.0	Roadway/Open Space	-	-	0.04
3731	668859.0	4280715.0	Roadway/Open Space	-	-	0.05
3732	668869.0	4280715.0	Roadway/Open Space	-	-	0.05
3733	668879.0	4280715.0	Roadway/Open Space	-	-	0.05
3734	668889.0	4280715.0	Roadway/Open Space	-	-	0.05
3735	668899.0	4280715.0	Roadway/Open Space	-	-	0.04
3736	668909.0	4280715.0	Roadway/Open Space	-	-	0.04
3737	668919.0	4280715.0	Roadway/Open Space	-	-	0.04
3738	668929.0	4280715.0	Roadway/Open Space	-	-	0.04
3739	668939.0	4280715.0	Roadway/Open Space	-	-	0.04
3740	668949.0	4280715.0	Roadway/Open Space	-	-	0.04
3741	668959.0	4280715.0	Roadway/Open Space	-	-	0.04
3742	668969.0	4280715.0	Roadway/Open Space	-	-	0.04
3743	668979.0	4280715.0	Roadway/Open Space	-	-	0.04
3744	668989.0	4280715.0	Roadway/Open Space	-	-	0.04
3759	669139.0	4280715.0	Roadway/Open Space	-	-	0.05
3760	669149.0	4280715.0	Roadway/Open Space	-	-	0.05
3761	669159.0	4280715.0	Roadway/Open Space	-	-	0.05
3762	669169.0	4280715.0	Roadway/Open Space	-	-	0.05
3763	669179.0	4280715.0	Roadway/Open Space	-	-	0.05
3764	669189.0	4280715.0	Roadway/Open Space	-	-	0.05
3765	669199.0	4280715.0	Roadway/Open Space	-	-	0.05
3766	669209.0	4280715.0	Roadway/Open Space	-	-	0.05
3767	669219.0	4280715.0	Roadway/Open Space	-	-	0.05
3768	669229.0	4280715.0	Roadway/Open Space	-	-	0.05
3769	669239.0	4280715.0	Roadway/Open Space	-	-	0.05
3770	669249.0	4280715.0	Roadway/Open Space	-	-	0.05
3771	669259.0	4280715.0	Roadway/Open Space	-	-	0.05
3772	669269.0	4280715.0	Roadway/Open Space	-	-	0.05
3773	669279.0	4280715.0	Roadway/Open Space	-	-	0.05
3774	669289.0	4280715.0	Roadway/Open Space	-	-	0.05
3775	669299.0	4280715.0	Roadway/Open Space	-	-	0.04
3776	669309.0	4280715.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3777	669319.0	4280715.0	Roadway/Open Space	-	-	0.04
3778	669329.0	4280715.0	Roadway/Open Space	-	-	0.04
3779	669339.0	4280715.0	Roadway/Open Space	-	-	0.04
3780	669349.0	4280715.0	Roadway/Open Space	-	-	0.03
3781	669359.0	4280715.0	Roadway/Open Space	-	-	0.03
3782	669369.0	4280715.0	Roadway/Open Space	-	-	0.03
3783	669379.0	4280715.0	Roadway/Open Space	-	-	0.03
3784	669389.0	4280715.0	Roadway/Open Space	-	-	0.03
3785	669399.0	4280715.0	Roadway/Open Space	-	-	0.03
3786	669409.0	4280715.0	Roadway/Open Space	-	-	0.03
3787	669419.0	4280715.0	Roadway/Open Space	-	-	0.03
3788	669429.0	4280715.0	Roadway/Open Space	-	-	0.03
3789	669439.0	4280715.0	Roadway/Open Space	-	-	0.03
3790	669449.0	4280715.0	Roadway/Open Space	-	-	0.03
3791	669459.0	4280715.0	Roadway/Open Space	-	-	0.03
3792	669469.0	4280715.0	Roadway/Open Space	-	-	0.03
3793	669479.0	4280715.0	Roadway/Open Space	-	-	0.03
3794	669489.0	4280715.0	Roadway/Open Space	-	-	0.03
3795	669499.0	4280715.0	Roadway/Open Space	-	-	0.03
3796	669509.0	4280715.0	Roadway/Open Space	-	-	0.03
3797	669519.0	4280715.0	Roadway/Open Space	-	-	0.03
3798	669529.0	4280715.0	Roadway/Open Space	-	-	0.03
3799	669539.0	4280715.0	Roadway/Open Space	-	-	0.02
3800	669549.0	4280715.0	Roadway/Open Space	-	-	0.02
3801	669559.0	4280715.0	Roadway/Open Space	-	-	0.02
3802	669569.0	4280715.0	Roadway/Open Space	-	-	0.02
3803	669579.0	4280715.0	Roadway/Open Space	-	-	0.03
3804	669589.0	4280715.0	Roadway/Open Space	-	-	0.03
3805	669599.0	4280715.0	Roadway/Open Space	-	-	0.03
3806	669609.0	4280715.0	Roadway/Open Space	-	-	0.03
3807	669619.0	4280715.0	Roadway/Open Space	-	-	0.03
3808	668559.0	4280725.0	Residential	0.20	0.001	0.03
3809	668569.0	4280725.0	Residential	0.21	0.001	0.03
3810	668579.0	4280725.0	Residential	0.23	0.001	0.03
3811	668589.0	4280725.0	Residential	0.24	0.001	0.03
3812	668599.0	4280725.0	Roadway/Open Space	-	-	0.03
3813	668609.0	4280725.0	Roadway/Open Space	-	-	0.03
3814	668619.0	4280725.0	Roadway/Open Space	-	-	0.03
3815	668629.0	4280725.0	Roadway/Open Space	-	-	0.03
3816	668639.0	4280725.0	Roadway/Open Space	-	-	0.03
3817	668649.0	4280725.0	Roadway/Open Space	-	-	0.03
3818	668659.0	4280725.0	Roadway/Open Space	-	-	0.03
3819	668669.0	4280725.0	Residential	0.20	0.001	0.03
3820	668679.0	4280725.0	Residential	0.21	0.001	0.03
3821	668689.0	4280725.0	Residential	0.22	0.001	0.03
3822	668699.0	4280725.0	Residential	0.22	0.001	0.03
3823	668709.0	4280725.0	Residential	0.24	0.001	0.03
3824	668719.0	4280725.0	Roadway/Open Space	-	-	0.03
3825	668729.0	4280725.0	Residential	0.27	0.001	0.03
3826	668739.0	4280725.0	Residential	0.29	0.001	0.03
3827	668749.0	4280725.0	Residential	0.31	0.001	0.04
3828	668759.0	4280725.0	Residential	0.35	0.001	0.04
3829	668769.0	4280725.0	Residential	0.38	0.001	0.04
3830	668779.0	4280725.0	Roadway/Open Space	-	-	0.04
3831	668789.0	4280725.0	Roadway/Open Space	-	-	0.04
3832	668799.0	4280725.0	Roadway/Open Space	-	-	0.04
3833	668809.0	4280725.0	Roadway/Open Space	-	-	0.04
3834	668819.0	4280725.0	Roadway/Open Space	-	-	0.04
3835	668829.0	4280725.0	Roadway/Open Space	-	-	0.04
3836	668839.0	4280725.0	Roadway/Open Space	-	-	0.04
3837	668849.0	4280725.0	Roadway/Open Space	-	-	0.05
3838	668859.0	4280725.0	Roadway/Open Space	-	-	0.05
3839	668869.0	4280725.0	Roadway/Open Space	-	-	0.05
3840	668879.0	4280725.0	Roadway/Open Space	-	-	0.05
3841	668889.0	4280725.0	Roadway/Open Space	-	-	0.05
3842	668899.0	4280725.0	Roadway/Open Space	-	-	0.05
3843	668909.0	4280725.0	Roadway/Open Space	-	-	0.04
3844	668919.0	4280725.0	Roadway/Open Space	-	-	0.04
3845	668929.0	4280725.0	Roadway/Open Space	-	-	0.04
3846	668939.0	4280725.0	Roadway/Open Space	-	-	0.04
3847	668949.0	4280725.0	Roadway/Open Space	-	-	0.04
3848	668959.0	4280725.0	Roadway/Open Space	-	-	0.04
3849	668969.0	4280725.0	Roadway/Open Space	-	-	0.04
3850	668979.0	4280725.0	Roadway/Open Space	-	-	0.05
3851	668989.0	4280725.0	Roadway/Open Space	-	-	0.05
3867	669149.0	4280725.0	Roadway/Open Space	-	-	0.05
3868	669159.0	4280725.0	Roadway/Open Space	-	-	0.05
3869	669169.0	4280725.0	Roadway/Open Space	-	-	0.05
3870	669179.0	4280725.0	Roadway/Open Space	-	-	0.05
3871	669189.0	4280725.0	Roadway/Open Space	-	-	0.05
3872	669199.0	4280725.0	Roadway/Open Space	-	-	0.05
3873	669209.0	4280725.0	Roadway/Open Space	-	-	0.05
3874	669219.0	4280725.0	Roadway/Open Space	-	-	0.05
3875	669229.0	4280725.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3876	669239.0	4280725.0	Roadway/Open Space	-	-	0.05
3877	669249.0	4280725.0	Roadway/Open Space	-	-	0.05
3878	669259.0	4280725.0	Roadway/Open Space	-	-	0.05
3879	669269.0	4280725.0	Roadway/Open Space	-	-	0.05
3880	669279.0	4280725.0	Roadway/Open Space	-	-	0.05
3881	669289.0	4280725.0	Roadway/Open Space	-	-	0.05
3882	669299.0	4280725.0	Roadway/Open Space	-	-	0.05
3883	669309.0	4280725.0	Roadway/Open Space	-	-	0.05
3884	669319.0	4280725.0	Roadway/Open Space	-	-	0.04
3885	669329.0	4280725.0	Roadway/Open Space	-	-	0.04
3886	669339.0	4280725.0	Roadway/Open Space	-	-	0.04
3887	669349.0	4280725.0	Roadway/Open Space	-	-	0.04
3888	669359.0	4280725.0	Roadway/Open Space	-	-	0.04
3889	669369.0	4280725.0	Roadway/Open Space	-	-	0.03
3890	669379.0	4280725.0	Roadway/Open Space	-	-	0.03
3891	669389.0	4280725.0	Roadway/Open Space	-	-	0.03
3892	669399.0	4280725.0	Roadway/Open Space	-	-	0.03
3893	669409.0	4280725.0	Roadway/Open Space	-	-	0.03
3894	669419.0	4280725.0	Roadway/Open Space	-	-	0.03
3895	669429.0	4280725.0	Roadway/Open Space	-	-	0.03
3896	669439.0	4280725.0	Roadway/Open Space	-	-	0.03
3897	669449.0	4280725.0	Roadway/Open Space	-	-	0.03
3898	669459.0	4280725.0	Roadway/Open Space	-	-	0.03
3899	669469.0	4280725.0	Roadway/Open Space	-	-	0.03
3900	669479.0	4280725.0	Roadway/Open Space	-	-	0.03
3901	669489.0	4280725.0	Roadway/Open Space	-	-	0.03
3902	669499.0	4280725.0	Roadway/Open Space	-	-	0.03
3903	669509.0	4280725.0	Roadway/Open Space	-	-	0.03
3904	669519.0	4280725.0	Roadway/Open Space	-	-	0.03
3905	669529.0	4280725.0	Roadway/Open Space	-	-	0.03
3906	669539.0	4280725.0	Roadway/Open Space	-	-	0.02
3907	669549.0	4280725.0	Roadway/Open Space	-	-	0.02
3908	669559.0	4280725.0	Roadway/Open Space	-	-	0.02
3909	669569.0	4280725.0	Roadway/Open Space	-	-	0.03
3910	669579.0	4280725.0	Roadway/Open Space	-	-	0.03
3911	669589.0	4280725.0	Roadway/Open Space	-	-	0.03
3912	669599.0	4280725.0	Roadway/Open Space	-	-	0.03
3913	669609.0	4280725.0	Roadway/Open Space	-	-	0.03
3914	669619.0	4280725.0	Roadway/Open Space	-	-	0.03
3915	668559.0	4280735.0	Residential	0.21	0.001	0.03
3916	668569.0	4280735.0	Residential	0.21	0.001	0.03
3917	668579.0	4280735.0	Residential	0.22	0.001	0.03
3918	668589.0	4280735.0	Residential	0.23	0.001	0.03
3919	668599.0	4280735.0	Residential	0.23	0.001	0.03
3920	668609.0	4280735.0	Residential	0.24	0.001	0.03
3921	668619.0	4280735.0	Roadway/Open Space	-	-	0.03
3922	668629.0	4280735.0	Roadway/Open Space	-	-	0.03
3923	668639.0	4280735.0	Roadway/Open Space	-	-	0.03
3924	668649.0	4280735.0	Roadway/Open Space	-	-	0.03
3925	668659.0	4280735.0	Residential	0.19	0.001	0.03
3926	668669.0	4280735.0	Residential	0.20	0.001	0.03
3927	668679.0	4280735.0	Residential	0.20	0.001	0.03
3928	668689.0	4280735.0	Residential	0.21	0.001	0.03
3929	668699.0	4280735.0	Residential	0.22	0.001	0.03
3930	668709.0	4280735.0	Roadway/Open Space	-	-	0.03
3931	668719.0	4280735.0	Residential	0.25	0.001	0.03
3932	668729.0	4280735.0	Residential	0.26	0.001	0.03
3933	668739.0	4280735.0	Residential	0.28	0.001	0.03
3934	668749.0	4280735.0	Residential	0.30	0.001	0.03
3935	668759.0	4280735.0	Residential	0.34	0.001	0.04
3936	668769.0	4280735.0	Residential	0.37	0.001	0.04
3937	668779.0	4280735.0	Roadway/Open Space	-	-	0.04
3938	668789.0	4280735.0	Roadway/Open Space	-	-	0.04
3939	668799.0	4280735.0	Roadway/Open Space	-	-	0.05
3940	668809.0	4280735.0	Roadway/Open Space	-	-	0.05
3941	668819.0	4280735.0	Roadway/Open Space	-	-	0.05
3942	668829.0	4280735.0	Roadway/Open Space	-	-	0.04
3943	668839.0	4280735.0	Roadway/Open Space	-	-	0.04
3944	668849.0	4280735.0	Roadway/Open Space	-	-	0.05
3945	668859.0	4280735.0	Roadway/Open Space	-	-	0.05
3946	668869.0	4280735.0	Roadway/Open Space	-	-	0.05
3947	668879.0	4280735.0	Roadway/Open Space	-	-	0.05
3948	668889.0	4280735.0	Roadway/Open Space	-	-	0.05
3949	668899.0	4280735.0	Roadway/Open Space	-	-	0.05
3950	668909.0	4280735.0	Roadway/Open Space	-	-	0.05
3951	668919.0	4280735.0	Roadway/Open Space	-	-	0.04
3952	668929.0	4280735.0	Roadway/Open Space	-	-	0.04
3953	668939.0	4280735.0	Roadway/Open Space	-	-	0.04
3954	668949.0	4280735.0	Roadway/Open Space	-	-	0.04
3955	668959.0	4280735.0	Roadway/Open Space	-	-	0.04
3956	668969.0	4280735.0	Roadway/Open Space	-	-	0.05
3957	668979.0	4280735.0	Roadway/Open Space	-	-	0.05
3975	669159.0	4280735.0	Roadway/Open Space	-	-	0.05
3976	669169.0	4280735.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
3977	669179.0	4280735.0	Roadway/Open Space	-	-	0.05
3978	669189.0	4280735.0	Roadway/Open Space	-	-	0.05
3979	669199.0	4280735.0	Roadway/Open Space	-	-	0.05
3980	669209.0	4280735.0	Roadway/Open Space	-	-	0.05
3981	669219.0	4280735.0	Roadway/Open Space	-	-	0.05
3982	669229.0	4280735.0	Roadway/Open Space	-	-	0.06
3983	669239.0	4280735.0	Roadway/Open Space	-	-	0.06
3984	669249.0	4280735.0	Roadway/Open Space	-	-	0.06
3985	669259.0	4280735.0	Roadway/Open Space	-	-	0.05
3986	669269.0	4280735.0	Roadway/Open Space	-	-	0.05
3987	669279.0	4280735.0	Roadway/Open Space	-	-	0.05
3988	669289.0	4280735.0	Roadway/Open Space	-	-	0.05
3989	669299.0	4280735.0	Roadway/Open Space	-	-	0.05
3990	669309.0	4280735.0	Roadway/Open Space	-	-	0.05
3991	669319.0	4280735.0	Roadway/Open Space	-	-	0.04
3992	669329.0	4280735.0	Roadway/Open Space	-	-	0.04
3993	669339.0	4280735.0	Roadway/Open Space	-	-	0.04
3994	669349.0	4280735.0	Roadway/Open Space	-	-	0.04
3995	669359.0	4280735.0	Roadway/Open Space	-	-	0.04
3996	669369.0	4280735.0	Roadway/Open Space	-	-	0.03
3997	669379.0	4280735.0	Roadway/Open Space	-	-	0.03
3998	669389.0	4280735.0	Roadway/Open Space	-	-	0.03
3999	669399.0	4280735.0	Roadway/Open Space	-	-	0.03
4000	669409.0	4280735.0	Roadway/Open Space	-	-	0.03
4001	669419.0	4280735.0	Roadway/Open Space	-	-	0.03
4002	669429.0	4280735.0	Roadway/Open Space	-	-	0.03
4003	669439.0	4280735.0	Roadway/Open Space	-	-	0.03
4004	669449.0	4280735.0	Roadway/Open Space	-	-	0.03
4005	669459.0	4280735.0	Roadway/Open Space	-	-	0.03
4006	669469.0	4280735.0	Roadway/Open Space	-	-	0.03
4007	669479.0	4280735.0	Roadway/Open Space	-	-	0.03
4008	669489.0	4280735.0	Roadway/Open Space	-	-	0.03
4009	669499.0	4280735.0	Roadway/Open Space	-	-	0.03
4010	669509.0	4280735.0	Roadway/Open Space	-	-	0.03
4011	669519.0	4280735.0	Roadway/Open Space	-	-	0.03
4012	669529.0	4280735.0	Roadway/Open Space	-	-	0.03
4013	669539.0	4280735.0	Roadway/Open Space	-	-	0.02
4014	669549.0	4280735.0	Roadway/Open Space	-	-	0.02
4015	669559.0	4280735.0	Roadway/Open Space	-	-	0.03
4016	669569.0	4280735.0	Roadway/Open Space	-	-	0.03
4017	669579.0	4280735.0	Worker	0.04	0.002	0.03
4018	669589.0	4280735.0	Roadway/Open Space	-	-	0.03
4019	669599.0	4280735.0	Roadway/Open Space	-	-	0.03
4020	669609.0	4280735.0	Roadway/Open Space	-	-	0.03
4021	669619.0	4280735.0	Roadway/Open Space	-	-	0.03
4022	668549.0	4280745.0	Residential	0.20	0.001	0.03
4023	668559.0	4280745.0	Residential	0.21	0.001	0.03
4024	668569.0	4280745.0	Residential	0.21	0.001	0.03
4025	668579.0	4280745.0	Residential	0.21	0.001	0.03
4026	668589.0	4280745.0	Residential	0.22	0.001	0.03
4027	668599.0	4280745.0	Residential	0.22	0.001	0.03
4028	668609.0	4280745.0	Residential	0.22	0.001	0.03
4029	668619.0	4280745.0	Residential	0.22	0.001	0.03
4030	668629.0	4280745.0	Roadway/Open Space	-	-	0.03
4031	668639.0	4280745.0	Residential	0.20	0.001	0.03
4032	668649.0	4280745.0	Residential	0.19	0.001	0.02
4033	668659.0	4280745.0	Residential	0.19	0.001	0.02
4034	668669.0	4280745.0	Residential	0.19	0.001	0.02
4035	668679.0	4280745.0	Residential	0.20	0.001	0.03
4036	668689.0	4280745.0	Residential	0.21	0.001	0.03
4037	668699.0	4280745.0	Residential	0.22	0.001	0.03
4038	668709.0	4280745.0	Roadway/Open Space	-	-	0.03
4039	668719.0	4280745.0	Residential	0.24	0.001	0.03
4040	668729.0	4280745.0	Residential	0.26	0.001	0.03
4041	668739.0	4280745.0	Residential	0.28	0.001	0.03
4042	668749.0	4280745.0	Residential	0.30	0.001	0.03
4043	668759.0	4280745.0	Residential	0.33	0.001	0.04
4044	668769.0	4280745.0	Roadway/Open Space	-	-	0.04
4045	668779.0	4280745.0	Roadway/Open Space	-	-	0.04
4046	668789.0	4280745.0	Roadway/Open Space	-	-	0.04
4047	668799.0	4280745.0	Roadway/Open Space	-	-	0.05
4048	668809.0	4280745.0	Roadway/Open Space	-	-	0.05
4049	668819.0	4280745.0	Roadway/Open Space	-	-	0.05
4050	668829.0	4280745.0	Roadway/Open Space	-	-	0.04
4051	668839.0	4280745.0	Roadway/Open Space	-	-	0.04
4052	668849.0	4280745.0	Roadway/Open Space	-	-	0.05
4053	668859.0	4280745.0	Roadway/Open Space	-	-	0.05
4054	668869.0	4280745.0	Roadway/Open Space	-	-	0.05
4055	668879.0	4280745.0	Roadway/Open Space	-	-	0.05
4056	668889.0	4280745.0	Roadway/Open Space	-	-	0.05
4057	668899.0	4280745.0	Roadway/Open Space	-	-	0.05
4058	668909.0	4280745.0	Roadway/Open Space	-	-	0.05
4059	668919.0	4280745.0	Roadway/Open Space	-	-	0.05
4060	668929.0	4280745.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4061	668939.0	4280745.0	Roadway/Open Space	-	-	0.05
4062	668949.0	4280745.0	Roadway/Open Space	-	-	0.05
4063	668959.0	4280745.0	Roadway/Open Space	-	-	0.05
4064	668969.0	4280745.0	Roadway/Open Space	-	-	0.05
4065	668979.0	4280745.0	Roadway/Open Space	-	-	0.05
4085	669179.0	4280745.0	Roadway/Open Space	-	-	0.05
4086	669189.0	4280745.0	Roadway/Open Space	-	-	0.05
4087	669199.0	4280745.0	Roadway/Open Space	-	-	0.05
4088	669209.0	4280745.0	Roadway/Open Space	-	-	0.05
4089	669219.0	4280745.0	Roadway/Open Space	-	-	0.05
4090	669229.0	4280745.0	Roadway/Open Space	-	-	0.06
4091	669239.0	4280745.0	Roadway/Open Space	-	-	0.06
4092	669249.0	4280745.0	Roadway/Open Space	-	-	0.06
4093	669259.0	4280745.0	Roadway/Open Space	-	-	0.05
4094	669269.0	4280745.0	Roadway/Open Space	-	-	0.05
4095	669279.0	4280745.0	Roadway/Open Space	-	-	0.05
4096	669289.0	4280745.0	Roadway/Open Space	-	-	0.05
4097	669299.0	4280745.0	Roadway/Open Space	-	-	0.05
4098	669309.0	4280745.0	Roadway/Open Space	-	-	0.04
4099	669319.0	4280745.0	Roadway/Open Space	-	-	0.04
4100	669329.0	4280745.0	Roadway/Open Space	-	-	0.05
4101	669339.0	4280745.0	Roadway/Open Space	-	-	0.04
4102	669349.0	4280745.0	Roadway/Open Space	-	-	0.04
4103	669359.0	4280745.0	Roadway/Open Space	-	-	0.04
4104	669369.0	4280745.0	Roadway/Open Space	-	-	0.04
4105	669379.0	4280745.0	Roadway/Open Space	-	-	0.03
4106	669389.0	4280745.0	Roadway/Open Space	-	-	0.03
4107	669399.0	4280745.0	Roadway/Open Space	-	-	0.03
4108	669409.0	4280745.0	Roadway/Open Space	-	-	0.03
4109	669419.0	4280745.0	Roadway/Open Space	-	-	0.03
4110	669429.0	4280745.0	Roadway/Open Space	-	-	0.03
4111	669439.0	4280745.0	Roadway/Open Space	-	-	0.03
4112	669449.0	4280745.0	Roadway/Open Space	-	-	0.03
4113	669459.0	4280745.0	Roadway/Open Space	-	-	0.03
4114	669469.0	4280745.0	Roadway/Open Space	-	-	0.03
4115	669479.0	4280745.0	Roadway/Open Space	-	-	0.03
4116	669489.0	4280745.0	Roadway/Open Space	-	-	0.03
4117	669499.0	4280745.0	Roadway/Open Space	-	-	0.03
4118	669509.0	4280745.0	Roadway/Open Space	-	-	0.03
4119	669519.0	4280745.0	Roadway/Open Space	-	-	0.03
4120	669529.0	4280745.0	Roadway/Open Space	-	-	0.03
4121	669539.0	4280745.0	Roadway/Open Space	-	-	0.02
4122	669549.0	4280745.0	Worker	0.04	0.002	0.02
4123	669559.0	4280745.0	Worker	0.04	0.002	0.03
4124	669569.0	4280745.0	Worker	0.04	0.002	0.03
4125	669579.0	4280745.0	Worker	0.04	0.002	0.03
4126	669589.0	4280745.0	Worker	0.03	0.002	0.03
4127	669599.0	4280745.0	Worker	0.03	0.002	0.03
4128	669609.0	4280745.0	Roadway/Open Space	-	-	0.03
4129	669619.0	4280745.0	Roadway/Open Space	-	-	0.03
4130	668549.0	4280755.0	Residential	0.19	0.001	0.03
4131	668559.0	4280755.0	Residential	0.20	0.001	0.03
4132	668569.0	4280755.0	Residential	0.20	0.001	0.03
4133	668579.0	4280755.0	Residential	0.20	0.001	0.03
4134	668589.0	4280755.0	Residential	0.20	0.001	0.03
4135	668599.0	4280755.0	Residential	0.21	0.001	0.03
4136	668609.0	4280755.0	Residential	0.21	0.001	0.03
4137	668619.0	4280755.0	Residential	0.20	0.001	0.03
4138	668629.0	4280755.0	Residential	0.19	0.001	0.03
4139	668639.0	4280755.0	Roadway/Open Space	-	-	0.03
4140	668649.0	4280755.0	Residential	0.18	0.001	0.02
4141	668659.0	4280755.0	Residential	0.18	0.001	0.02
4142	668669.0	4280755.0	Residential	0.18	0.001	0.02
4143	668679.0	4280755.0	Residential	0.19	0.001	0.02
4144	668689.0	4280755.0	Residential	0.20	0.001	0.02
4145	668699.0	4280755.0	Roadway/Open Space	-	-	0.03
4146	668709.0	4280755.0	Residential	0.23	0.001	0.03
4147	668719.0	4280755.0	Residential	0.24	0.001	0.03
4148	668729.0	4280755.0	Residential	0.26	0.001	0.03
4149	668739.0	4280755.0	Residential	0.28	0.001	0.03
4150	668749.0	4280755.0	Residential	0.30	0.001	0.03
4151	668759.0	4280755.0	Residential	0.33	0.001	0.04
4152	668769.0	4280755.0	Roadway/Open Space	-	-	0.04
4153	668779.0	4280755.0	Roadway/Open Space	-	-	0.04
4154	668789.0	4280755.0	Roadway/Open Space	-	-	0.04
4155	668799.0	4280755.0	Roadway/Open Space	-	-	0.05
4156	668809.0	4280755.0	Roadway/Open Space	-	-	0.05
4157	668819.0	4280755.0	Roadway/Open Space	-	-	0.05
4158	668829.0	4280755.0	Roadway/Open Space	-	-	0.04
4159	668839.0	4280755.0	Roadway/Open Space	-	-	0.04
4160	668849.0	4280755.0	Roadway/Open Space	-	-	0.05
4161	668859.0	4280755.0	Roadway/Open Space	-	-	0.05
4162	668869.0	4280755.0	Roadway/Open Space	-	-	0.05
4163	668879.0	4280755.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4164	668889.0	4280755.0	Roadway/Open Space	-	-	0.05
4165	668899.0	4280755.0	Roadway/Open Space	-	-	0.05
4166	668909.0	4280755.0	Roadway/Open Space	-	-	0.05
4167	668919.0	4280755.0	Roadway/Open Space	-	-	0.05
4168	668929.0	4280755.0	Roadway/Open Space	-	-	0.05
4169	668939.0	4280755.0	Roadway/Open Space	-	-	0.05
4170	668949.0	4280755.0	Roadway/Open Space	-	-	0.05
4171	668959.0	4280755.0	Roadway/Open Space	-	-	0.05
4172	668969.0	4280755.0	Roadway/Open Space	-	-	0.05
4195	669199.0	4280755.0	Roadway/Open Space	-	-	0.05
4196	669209.0	4280755.0	Roadway/Open Space	-	-	0.05
4197	669219.0	4280755.0	Roadway/Open Space	-	-	0.06
4198	669229.0	4280755.0	Roadway/Open Space	-	-	0.06
4199	669239.0	4280755.0	Roadway/Open Space	-	-	0.06
4200	669249.0	4280755.0	Roadway/Open Space	-	-	0.06
4201	669259.0	4280755.0	Roadway/Open Space	-	-	0.05
4202	669269.0	4280755.0	Roadway/Open Space	-	-	0.05
4203	669279.0	4280755.0	Roadway/Open Space	-	-	0.05
4204	669289.0	4280755.0	Roadway/Open Space	-	-	0.05
4205	669299.0	4280755.0	Roadway/Open Space	-	-	0.05
4206	669309.0	4280755.0	Roadway/Open Space	-	-	0.04
4207	669319.0	4280755.0	Roadway/Open Space	-	-	0.05
4208	669329.0	4280755.0	Roadway/Open Space	-	-	0.05
4209	669339.0	4280755.0	Roadway/Open Space	-	-	0.05
4210	669349.0	4280755.0	Roadway/Open Space	-	-	0.04
4211	669359.0	4280755.0	Roadway/Open Space	-	-	0.04
4212	669369.0	4280755.0	Roadway/Open Space	-	-	0.04
4213	669379.0	4280755.0	Roadway/Open Space	-	-	0.04
4214	669389.0	4280755.0	Roadway/Open Space	-	-	0.03
4215	669399.0	4280755.0	Roadway/Open Space	-	-	0.03
4216	669409.0	4280755.0	Roadway/Open Space	-	-	0.03
4217	669419.0	4280755.0	Roadway/Open Space	-	-	0.03
4218	669429.0	4280755.0	Roadway/Open Space	-	-	0.03
4219	669439.0	4280755.0	Roadway/Open Space	-	-	0.03
4220	669449.0	4280755.0	Roadway/Open Space	-	-	0.03
4221	669459.0	4280755.0	Roadway/Open Space	-	-	0.03
4222	669469.0	4280755.0	Roadway/Open Space	-	-	0.03
4223	669479.0	4280755.0	Roadway/Open Space	-	-	0.03
4224	669489.0	4280755.0	Roadway/Open Space	-	-	0.03
4225	669499.0	4280755.0	Roadway/Open Space	-	-	0.03
4226	669509.0	4280755.0	Roadway/Open Space	-	-	0.03
4227	669519.0	4280755.0	Roadway/Open Space	-	-	0.03
4228	669529.0	4280755.0	Roadway/Open Space	-	-	0.03
4229	669539.0	4280755.0	Roadway/Open Space	-	-	0.02
4230	669549.0	4280755.0	Worker	0.04	0.002	0.03
4231	669559.0	4280755.0	Worker	0.04	0.002	0.03
4232	669569.0	4280755.0	Worker	0.04	0.002	0.03
4233	669579.0	4280755.0	Worker	0.04	0.002	0.03
4234	669589.0	4280755.0	Worker	0.03	0.002	0.03
4235	669599.0	4280755.0	Worker	0.03	0.002	0.03
4236	669609.0	4280755.0	Roadway/Open Space	-	-	0.03
4237	669619.0	4280755.0	Roadway/Open Space	-	-	0.03
4238	668549.0	4280765.0	Residential	0.18	0.001	0.03
4239	668559.0	4280765.0	Residential	0.19	0.001	0.03
4240	668569.0	4280765.0	Residential	0.19	0.001	0.03
4241	668579.0	4280765.0	Residential	0.19	0.001	0.03
4242	668589.0	4280765.0	Residential	0.19	0.001	0.03
4243	668599.0	4280765.0	Residential	0.19	0.001	0.03
4244	668609.0	4280765.0	Residential	0.19	0.001	0.03
4245	668619.0	4280765.0	Residential	0.19	0.001	0.03
4246	668629.0	4280765.0	Residential	0.18	0.001	0.03
4247	668639.0	4280765.0	Roadway/Open Space	-	-	0.02
4248	668649.0	4280765.0	Residential	0.18	0.001	0.02
4249	668659.0	4280765.0	Residential	0.18	0.001	0.02
4250	668669.0	4280765.0	Residential	0.18	0.001	0.02
4251	668679.0	4280765.0	Residential	0.19	0.001	0.02
4252	668689.0	4280765.0	Roadway/Open Space	-	-	0.02
4253	668699.0	4280765.0	Residential	0.21	0.001	0.02
4254	668709.0	4280765.0	Residential	0.22	0.001	0.03
4255	668719.0	4280765.0	Residential	0.24	0.001	0.03
4256	668729.0	4280765.0	Residential	0.25	0.001	0.03
4257	668739.0	4280765.0	Residential	0.28	0.001	0.03
4258	668749.0	4280765.0	Residential	0.29	0.001	0.03
4259	668759.0	4280765.0	Roadway/Open Space	-	-	0.03
4260	668769.0	4280765.0	Roadway/Open Space	-	-	0.04
4261	668779.0	4280765.0	Roadway/Open Space	-	-	0.04
4262	668789.0	4280765.0	Roadway/Open Space	-	-	0.04
4263	668799.0	4280765.0	Roadway/Open Space	-	-	0.05
4264	668809.0	4280765.0	Roadway/Open Space	-	-	0.05
4265	668819.0	4280765.0	Roadway/Open Space	-	-	0.05
4266	668829.0	4280765.0	Roadway/Open Space	-	-	0.04
4267	668839.0	4280765.0	Roadway/Open Space	-	-	0.04
4268	668849.0	4280765.0	Roadway/Open Space	-	-	0.05
4269	668859.0	4280765.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4270	668869.0	4280765.0	Roadway/Open Space	-	-	0.05
4271	668879.0	4280765.0	Roadway/Open Space	-	-	0.05
4272	668889.0	4280765.0	Roadway/Open Space	-	-	0.05
4273	668899.0	4280765.0	Roadway/Open Space	-	-	0.05
4274	668909.0	4280765.0	Roadway/Open Space	-	-	0.05
4275	668919.0	4280765.0	Roadway/Open Space	-	-	0.05
4276	668929.0	4280765.0	Roadway/Open Space	-	-	0.05
4277	668939.0	4280765.0	Roadway/Open Space	-	-	0.05
4278	668949.0	4280765.0	Roadway/Open Space	-	-	0.05
4279	668959.0	4280765.0	Roadway/Open Space	-	-	0.05
4280	668969.0	4280765.0	Roadway/Open Space	-	-	0.05
4305	669219.0	4280765.0	Roadway/Open Space	-	-	0.06
4306	669229.0	4280765.0	Roadway/Open Space	-	-	0.06
4307	669239.0	4280765.0	Roadway/Open Space	-	-	0.06
4308	669249.0	4280765.0	Roadway/Open Space	-	-	0.06
4309	669259.0	4280765.0	Roadway/Open Space	-	-	0.05
4310	669269.0	4280765.0	Roadway/Open Space	-	-	0.05
4311	669279.0	4280765.0	Roadway/Open Space	-	-	0.05
4312	669289.0	4280765.0	Roadway/Open Space	-	-	0.05
4313	669299.0	4280765.0	Roadway/Open Space	-	-	0.05
4314	669309.0	4280765.0	Roadway/Open Space	-	-	0.05
4315	669319.0	4280765.0	Roadway/Open Space	-	-	0.05
4316	669329.0	4280765.0	Roadway/Open Space	-	-	0.05
4317	669339.0	4280765.0	Roadway/Open Space	-	-	0.05
4318	669349.0	4280765.0	Roadway/Open Space	-	-	0.04
4319	669359.0	4280765.0	Roadway/Open Space	-	-	0.04
4320	669369.0	4280765.0	Roadway/Open Space	-	-	0.04
4321	669379.0	4280765.0	Roadway/Open Space	-	-	0.04
4322	669389.0	4280765.0	Roadway/Open Space	-	-	0.03
4323	669399.0	4280765.0	Roadway/Open Space	-	-	0.03
4324	669409.0	4280765.0	Roadway/Open Space	-	-	0.03
4325	669419.0	4280765.0	Roadway/Open Space	-	-	0.03
4326	669429.0	4280765.0	Roadway/Open Space	-	-	0.03
4327	669439.0	4280765.0	Roadway/Open Space	-	-	0.03
4328	669449.0	4280765.0	Roadway/Open Space	-	-	0.03
4329	669459.0	4280765.0	Roadway/Open Space	-	-	0.03
4330	669469.0	4280765.0	Roadway/Open Space	-	-	0.03
4331	669479.0	4280765.0	Roadway/Open Space	-	-	0.03
4332	669489.0	4280765.0	Roadway/Open Space	-	-	0.03
4333	669499.0	4280765.0	Roadway/Open Space	-	-	0.03
4334	669509.0	4280765.0	Roadway/Open Space	-	-	0.03
4335	669519.0	4280765.0	Roadway/Open Space	-	-	0.03
4336	669529.0	4280765.0	Roadway/Open Space	-	-	0.03
4337	669539.0	4280765.0	Worker	0.04	0.002	0.03
4338	669549.0	4280765.0	Worker	0.04	0.002	0.03
4339	669559.0	4280765.0	Worker	0.04	0.002	0.03
4340	669569.0	4280765.0	Worker	0.04	0.002	0.03
4341	669579.0	4280765.0	Worker	0.04	0.002	0.03
4342	669589.0	4280765.0	Worker	0.03	0.002	0.03
4343	669599.0	4280765.0	Worker	0.03	0.002	0.03
4344	669609.0	4280765.0	Roadway/Open Space	-	-	0.03
4345	669619.0	4280765.0	Roadway/Open Space	-	-	0.03
4346	668549.0	4280775.0	Residential	0.17	0.001	0.03
4347	668559.0	4280775.0	Residential	0.17	0.001	0.03
4348	668569.0	4280775.0	Residential	0.17	0.001	0.03
4349	668579.0	4280775.0	Residential	0.18	0.001	0.03
4350	668589.0	4280775.0	Residential	0.18	0.001	0.03
4351	668599.0	4280775.0	Residential	0.18	0.001	0.03
4352	668609.0	4280775.0	Residential	0.18	0.001	0.03
4353	668619.0	4280775.0	Residential	0.18	0.001	0.03
4354	668629.0	4280775.0	Residential	0.18	0.001	0.02
4355	668639.0	4280775.0	Roadway/Open Space	-	-	0.02
4356	668649.0	4280775.0	Residential	0.17	0.001	0.02
4357	668659.0	4280775.0	Residential	0.17	0.001	0.02
4358	668669.0	4280775.0	Roadway/Open Space	-	-	0.02
4359	668679.0	4280775.0	Residential	0.18	0.001	0.02
4360	668689.0	4280775.0	Residential	0.19	0.001	0.02
4361	668699.0	4280775.0	Residential	0.21	0.001	0.02
4362	668709.0	4280775.0	Residential	0.22	0.001	0.02
4363	668719.0	4280775.0	Residential	0.22	0.001	0.03
4364	668729.0	4280775.0	Residential	0.24	0.001	0.03
4365	668739.0	4280775.0	Residential	0.27	0.001	0.03
4366	668749.0	4280775.0	Residential	0.30	0.001	0.03
4367	668759.0	4280775.0	Roadway/Open Space	-	-	0.04
4368	668769.0	4280775.0	Roadway/Open Space	-	-	0.04
4369	668779.0	4280775.0	Roadway/Open Space	-	-	0.04
4370	668789.0	4280775.0	Roadway/Open Space	-	-	0.05
4371	668799.0	4280775.0	Roadway/Open Space	-	-	0.05
4372	668809.0	4280775.0	Roadway/Open Space	-	-	0.05
4373	668819.0	4280775.0	Roadway/Open Space	-	-	0.05
4374	668829.0	4280775.0	Roadway/Open Space	-	-	0.04
4375	668839.0	4280775.0	Roadway/Open Space	-	-	0.05
4376	668849.0	4280775.0	Roadway/Open Space	-	-	0.05
4377	668859.0	4280775.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4378	668869.0	4280775.0	Roadway/Open Space	-	-	0.05
4379	668879.0	4280775.0	Roadway/Open Space	-	-	0.05
4380	668889.0	4280775.0	Roadway/Open Space	-	-	0.05
4381	668899.0	4280775.0	Roadway/Open Space	-	-	0.05
4382	668909.0	4280775.0	Roadway/Open Space	-	-	0.05
4383	668919.0	4280775.0	Roadway/Open Space	-	-	0.05
4384	668929.0	4280775.0	Roadway/Open Space	-	-	0.05
4385	668939.0	4280775.0	Roadway/Open Space	-	-	0.05
4386	668949.0	4280775.0	Roadway/Open Space	-	-	0.05
4387	668959.0	4280775.0	Roadway/Open Space	-	-	0.05
4414	669229.0	4280775.0	Roadway/Open Space	-	-	0.06
4415	669239.0	4280775.0	Roadway/Open Space	-	-	0.06
4416	669249.0	4280775.0	Roadway/Open Space	-	-	0.06
4417	669259.0	4280775.0	Roadway/Open Space	-	-	0.05
4418	669269.0	4280775.0	Roadway/Open Space	-	-	0.05
4419	669279.0	4280775.0	Roadway/Open Space	-	-	0.05
4420	669289.0	4280775.0	Roadway/Open Space	-	-	0.05
4421	669299.0	4280775.0	Roadway/Open Space	-	-	0.05
4422	669309.0	4280775.0	Roadway/Open Space	-	-	0.05
4423	669319.0	4280775.0	Roadway/Open Space	-	-	0.05
4424	669329.0	4280775.0	Roadway/Open Space	-	-	0.05
4425	669339.0	4280775.0	Roadway/Open Space	-	-	0.05
4426	669349.0	4280775.0	Roadway/Open Space	-	-	0.05
4427	669359.0	4280775.0	Roadway/Open Space	-	-	0.04
4428	669369.0	4280775.0	Roadway/Open Space	-	-	0.04
4429	669379.0	4280775.0	Roadway/Open Space	-	-	0.04
4430	669389.0	4280775.0	Roadway/Open Space	-	-	0.04
4431	669399.0	4280775.0	Roadway/Open Space	-	-	0.03
4432	669409.0	4280775.0	Roadway/Open Space	-	-	0.03
4433	669419.0	4280775.0	Roadway/Open Space	-	-	0.03
4434	669429.0	4280775.0	Roadway/Open Space	-	-	0.03
4435	669439.0	4280775.0	Roadway/Open Space	-	-	0.03
4436	669449.0	4280775.0	Roadway/Open Space	-	-	0.03
4437	669459.0	4280775.0	Roadway/Open Space	-	-	0.03
4438	669469.0	4280775.0	Roadway/Open Space	-	-	0.03
4439	669479.0	4280775.0	Roadway/Open Space	-	-	0.03
4440	669489.0	4280775.0	Roadway/Open Space	-	-	0.03
4441	669499.0	4280775.0	Roadway/Open Space	-	-	0.03
4442	669509.0	4280775.0	Roadway/Open Space	-	-	0.03
4443	669519.0	4280775.0	Roadway/Open Space	-	-	0.03
4444	669529.0	4280775.0	Roadway/Open Space	-	-	0.03
4445	669539.0	4280775.0	Worker	0.04	0.002	0.03
4446	669549.0	4280775.0	Worker	0.04	0.002	0.03
4447	669559.0	4280775.0	Worker	0.04	0.002	0.03
4448	669569.0	4280775.0	Worker	0.04	0.002	0.03
4449	669579.0	4280775.0	Worker	0.03	0.002	0.03
4450	669589.0	4280775.0	Worker	0.03	0.002	0.03
4451	669599.0	4280775.0	Worker	0.03	0.002	0.03
4452	669609.0	4280775.0	Roadway/Open Space	-	-	0.03
4453	669619.0	4280775.0	Roadway/Open Space	-	-	0.03
4454	668539.0	4280785.0	Residential	0.15	0.001	0.02
4455	668549.0	4280785.0	Residential	0.15	0.001	0.02
4456	668559.0	4280785.0	Residential	0.16	0.001	0.02
4457	668569.0	4280785.0	Residential	0.16	0.001	0.02
4458	668579.0	4280785.0	Residential	0.16	0.001	0.02
4459	668589.0	4280785.0	Residential	0.17	0.001	0.02
4460	668599.0	4280785.0	Residential	0.17	0.001	0.02
4461	668609.0	4280785.0	Residential	0.17	0.001	0.02
4462	668619.0	4280785.0	Residential	0.17	0.001	0.02
4463	668629.0	4280785.0	Residential	0.17	0.001	0.02
4464	668639.0	4280785.0	Roadway/Open Space	-	-	0.02
4465	668649.0	4280785.0	Roadway/Open Space	-	-	0.02
4466	668659.0	4280785.0	Residential	0.16	0.001	0.02
4467	668669.0	4280785.0	Residential	0.17	0.001	0.02
4468	668679.0	4280785.0	Residential	0.17	0.001	0.02
4469	668689.0	4280785.0	Residential	0.19	0.001	0.02
4470	668699.0	4280785.0	Residential	0.20	0.001	0.02
4471	668709.0	4280785.0	Residential	0.21	0.001	0.02
4472	668719.0	4280785.0	Residential	0.23	0.001	0.02
4473	668729.0	4280785.0	Residential	0.25	0.001	0.03
4474	668739.0	4280785.0	Residential	0.27	0.001	0.03
4475	668749.0	4280785.0	Roadway/Open Space	-	-	0.03
4476	668759.0	4280785.0	Roadway/Open Space	-	-	0.04
4477	668769.0	4280785.0	Roadway/Open Space	-	-	0.04
4478	668779.0	4280785.0	Roadway/Open Space	-	-	0.04
4479	668789.0	4280785.0	Roadway/Open Space	-	-	0.05
4480	668799.0	4280785.0	Roadway/Open Space	-	-	0.05
4481	668809.0	4280785.0	Roadway/Open Space	-	-	0.05
4482	668819.0	4280785.0	Roadway/Open Space	-	-	0.04
4483	668829.0	4280785.0	Roadway/Open Space	-	-	0.04
4484	668839.0	4280785.0	Roadway/Open Space	-	-	0.05
4485	668849.0	4280785.0	Roadway/Open Space	-	-	0.05
4486	668859.0	4280785.0	Roadway/Open Space	-	-	0.05
4487	668869.0	4280785.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4488	668879.0	4280785.0	Roadway/Open Space	-	-	0.05
4489	668889.0	4280785.0	Roadway/Open Space	-	-	0.05
4490	668899.0	4280785.0	Roadway/Open Space	-	-	0.05
4491	668909.0	4280785.0	Roadway/Open Space	-	-	0.05
4492	668919.0	4280785.0	Roadway/Open Space	-	-	0.05
4493	668929.0	4280785.0	Roadway/Open Space	-	-	0.05
4494	668939.0	4280785.0	Roadway/Open Space	-	-	0.05
4495	668949.0	4280785.0	Roadway/Open Space	-	-	0.06
4496	668959.0	4280785.0	Roadway/Open Space	-	-	0.05
4523	669229.0	4280785.0	Roadway/Open Space	-	-	0.06
4524	669239.0	4280785.0	Roadway/Open Space	-	-	0.06
4525	669249.0	4280785.0	Roadway/Open Space	-	-	0.06
4526	669259.0	4280785.0	Roadway/Open Space	-	-	0.06
4527	669269.0	4280785.0	Roadway/Open Space	-	-	0.05
4528	669279.0	4280785.0	Roadway/Open Space	-	-	0.05
4529	669289.0	4280785.0	Roadway/Open Space	-	-	0.05
4530	669299.0	4280785.0	Roadway/Open Space	-	-	0.05
4531	669309.0	4280785.0	Roadway/Open Space	-	-	0.05
4532	669319.0	4280785.0	Roadway/Open Space	-	-	0.05
4533	669329.0	4280785.0	Roadway/Open Space	-	-	0.05
4534	669339.0	4280785.0	Roadway/Open Space	-	-	0.05
4535	669349.0	4280785.0	Roadway/Open Space	-	-	0.05
4536	669359.0	4280785.0	Roadway/Open Space	-	-	0.05
4537	669369.0	4280785.0	Roadway/Open Space	-	-	0.04
4538	669379.0	4280785.0	Roadway/Open Space	-	-	0.04
4539	669389.0	4280785.0	Roadway/Open Space	-	-	0.04
4540	669399.0	4280785.0	Roadway/Open Space	-	-	0.04
4541	669409.0	4280785.0	Roadway/Open Space	-	-	0.03
4542	669419.0	4280785.0	Roadway/Open Space	-	-	0.03
4543	669429.0	4280785.0	Roadway/Open Space	-	-	0.03
4544	669439.0	4280785.0	Roadway/Open Space	-	-	0.03
4545	669449.0	4280785.0	Roadway/Open Space	-	-	0.03
4546	669459.0	4280785.0	Roadway/Open Space	-	-	0.03
4547	669469.0	4280785.0	Roadway/Open Space	-	-	0.03
4548	669479.0	4280785.0	Roadway/Open Space	-	-	0.03
4549	669489.0	4280785.0	Roadway/Open Space	-	-	0.03
4550	669499.0	4280785.0	Roadway/Open Space	-	-	0.03
4551	669509.0	4280785.0	Roadway/Open Space	-	-	0.03
4552	669519.0	4280785.0	Roadway/Open Space	-	-	0.03
4553	669529.0	4280785.0	Roadway/Open Space	-	-	0.03
4554	669539.0	4280785.0	Worker	0.04	0.002	0.03
4555	669549.0	4280785.0	Worker	0.04	0.002	0.03
4556	669559.0	4280785.0	Worker	0.04	0.002	0.03
4557	669569.0	4280785.0	Worker	0.04	0.002	0.03
4558	669579.0	4280785.0	Worker	0.03	0.002	0.03
4559	669589.0	4280785.0	Worker	0.03	0.002	0.03
4560	669599.0	4280785.0	Worker	0.03	0.002	0.03
4561	669609.0	4280785.0	Roadway/Open Space	-	-	0.03
4562	669619.0	4280785.0	Roadway/Open Space	-	-	0.03
4563	668539.0	4280795.0	Residential	0.14	0.001	0.02
4564	668549.0	4280795.0	Residential	0.14	0.001	0.02
4565	668559.0	4280795.0	Residential	0.15	0.001	0.02
4566	668569.0	4280795.0	Residential	0.15	0.001	0.02
4567	668579.0	4280795.0	Residential	0.15	0.001	0.02
4568	668589.0	4280795.0	Residential	0.16	0.001	0.02
4569	668599.0	4280795.0	Residential	0.16	0.001	0.02
4570	668609.0	4280795.0	Residential	0.16	0.001	0.02
4571	668619.0	4280795.0	Residential	0.16	0.001	0.02
4572	668629.0	4280795.0	Residential	0.15	0.001	0.02
4573	668639.0	4280795.0	Residential	0.15	0.001	0.02
4574	668649.0	4280795.0	Residential	0.15	0.001	0.02
4575	668659.0	4280795.0	Residential	0.16	0.001	0.02
4576	668669.0	4280795.0	Residential	0.16	0.001	0.02
4577	668679.0	4280795.0	Residential	0.17	0.001	0.02
4578	668689.0	4280795.0	Residential	0.18	0.001	0.02
4579	668699.0	4280795.0	Residential	0.19	0.001	0.02
4580	668709.0	4280795.0	Residential	0.21	0.001	0.02
4581	668719.0	4280795.0	Residential	0.23	0.001	0.02
4582	668729.0	4280795.0	Residential	0.26	0.001	0.03
4583	668739.0	4280795.0	Roadway/Open Space	-	-	0.03
4584	668749.0	4280795.0	Roadway/Open Space	-	-	0.04
4585	668759.0	4280795.0	Roadway/Open Space	-	-	0.04
4586	668769.0	4280795.0	Roadway/Open Space	-	-	0.04
4587	668779.0	4280795.0	Roadway/Open Space	-	-	0.05
4588	668789.0	4280795.0	Roadway/Open Space	-	-	0.05
4589	668799.0	4280795.0	Roadway/Open Space	-	-	0.05
4590	668809.0	4280795.0	Roadway/Open Space	-	-	0.05
4591	668819.0	4280795.0	Roadway/Open Space	-	-	0.04
4592	668829.0	4280795.0	Roadway/Open Space	-	-	0.05
4593	668839.0	4280795.0	Roadway/Open Space	-	-	0.05
4594	668849.0	4280795.0	Roadway/Open Space	-	-	0.05
4595	668859.0	4280795.0	Roadway/Open Space	-	-	0.05
4596	668869.0	4280795.0	Roadway/Open Space	-	-	0.05
4597	668879.0	4280795.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4598	668889.0	4280795.0	Roadway/Open Space	-	-	0.05
4599	668899.0	4280795.0	Roadway/Open Space	-	-	0.05
4600	668909.0	4280795.0	Roadway/Open Space	-	-	0.05
4601	668919.0	4280795.0	Roadway/Open Space	-	-	0.05
4602	668929.0	4280795.0	Roadway/Open Space	-	-	0.06
4603	668939.0	4280795.0	Roadway/Open Space	-	-	0.06
4604	668949.0	4280795.0	Roadway/Open Space	-	-	0.06
4605	668959.0	4280795.0	Roadway/Open Space	-	-	0.06
4631	669219.0	4280795.0	Roadway/Open Space	-	-	0.07
4632	669229.0	4280795.0	Roadway/Open Space	-	-	0.06
4633	669239.0	4280795.0	Roadway/Open Space	-	-	0.06
4634	669249.0	4280795.0	Roadway/Open Space	-	-	0.06
4635	669259.0	4280795.0	Roadway/Open Space	-	-	0.06
4636	669269.0	4280795.0	Roadway/Open Space	-	-	0.05
4637	669279.0	4280795.0	Roadway/Open Space	-	-	0.05
4638	669289.0	4280795.0	Roadway/Open Space	-	-	0.05
4639	669299.0	4280795.0	Roadway/Open Space	-	-	0.05
4640	669309.0	4280795.0	Roadway/Open Space	-	-	0.05
4641	669319.0	4280795.0	Roadway/Open Space	-	-	0.05
4642	669329.0	4280795.0	Roadway/Open Space	-	-	0.05
4643	669339.0	4280795.0	Roadway/Open Space	-	-	0.06
4644	669349.0	4280795.0	Roadway/Open Space	-	-	0.05
4645	669359.0	4280795.0	Roadway/Open Space	-	-	0.05
4646	669369.0	4280795.0	Roadway/Open Space	-	-	0.04
4647	669379.0	4280795.0	Roadway/Open Space	-	-	0.04
4648	669389.0	4280795.0	Roadway/Open Space	-	-	0.04
4649	669399.0	4280795.0	Roadway/Open Space	-	-	0.04
4650	669409.0	4280795.0	Roadway/Open Space	-	-	0.04
4651	669419.0	4280795.0	Roadway/Open Space	-	-	0.03
4652	669429.0	4280795.0	Roadway/Open Space	-	-	0.03
4653	669439.0	4280795.0	Roadway/Open Space	-	-	0.03
4654	669449.0	4280795.0	Roadway/Open Space	-	-	0.03
4655	669459.0	4280795.0	Roadway/Open Space	-	-	0.03
4656	669469.0	4280795.0	Roadway/Open Space	-	-	0.03
4657	669479.0	4280795.0	Roadway/Open Space	-	-	0.03
4658	669489.0	4280795.0	Roadway/Open Space	-	-	0.03
4659	669499.0	4280795.0	Roadway/Open Space	-	-	0.03
4660	669509.0	4280795.0	Roadway/Open Space	-	-	0.03
4661	669519.0	4280795.0	Worker	0.05	0.003	0.03
4662	669529.0	4280795.0	Worker	0.04	0.003	0.03
4663	669539.0	4280795.0	Worker	0.04	0.002	0.03
4664	669549.0	4280795.0	Worker	0.04	0.002	0.03
4665	669559.0	4280795.0	Worker	0.04	0.002	0.03
4666	669569.0	4280795.0	Worker	0.04	0.002	0.03
4667	669579.0	4280795.0	Worker	0.03	0.002	0.03
4668	669589.0	4280795.0	Worker	0.03	0.002	0.03
4669	669599.0	4280795.0	Worker	0.03	0.002	0.03
4670	669609.0	4280795.0	Roadway/Open Space	-	-	0.03
4671	669619.0	4280795.0	Roadway/Open Space	-	-	0.03
4672	668539.0	4280805.0	Residential	0.13	0.000	0.02
4673	668549.0	4280805.0	Residential	0.13	0.000	0.02
4674	668559.0	4280805.0	Residential	0.14	0.001	0.02
4675	668569.0	4280805.0	Residential	0.14	0.001	0.02
4676	668579.0	4280805.0	Residential	0.14	0.001	0.02
4677	668589.0	4280805.0	Residential	0.14	0.001	0.02
4678	668599.0	4280805.0	Residential	0.15	0.001	0.02
4679	668609.0	4280805.0	Residential	0.15	0.001	0.02
4680	668619.0	4280805.0	Residential	0.15	0.001	0.02
4681	668629.0	4280805.0	Residential	0.15	0.001	0.02
4682	668639.0	4280805.0	Residential	0.15	0.001	0.02
4683	668649.0	4280805.0	Roadway/Open Space	-	-	0.02
4684	668659.0	4280805.0	Residential	0.15	0.001	0.02
4685	668669.0	4280805.0	Residential	0.16	0.001	0.02
4686	668679.0	4280805.0	Residential	0.16	0.001	0.02
4687	668689.0	4280805.0	Residential	0.18	0.001	0.02
4688	668699.0	4280805.0	Residential	0.19	0.001	0.02
4689	668709.0	4280805.0	Residential	0.21	0.001	0.02
4690	668719.0	4280805.0	Residential	0.24	0.001	0.03
4691	668729.0	4280805.0	Roadway/Open Space	-	-	0.03
4692	668739.0	4280805.0	Roadway/Open Space	-	-	0.03
4693	668749.0	4280805.0	Roadway/Open Space	-	-	0.04
4694	668759.0	4280805.0	Roadway/Open Space	-	-	0.04
4695	668769.0	4280805.0	Roadway/Open Space	-	-	0.05
4696	668779.0	4280805.0	Roadway/Open Space	-	-	0.05
4697	668789.0	4280805.0	Roadway/Open Space	-	-	0.05
4698	668799.0	4280805.0	Roadway/Open Space	-	-	0.05
4699	668809.0	4280805.0	Roadway/Open Space	-	-	0.04
4700	668819.0	4280805.0	Roadway/Open Space	-	-	0.04
4701	668829.0	4280805.0	Roadway/Open Space	-	-	0.05
4702	668839.0	4280805.0	Roadway/Open Space	-	-	0.05
4703	668849.0	4280805.0	Roadway/Open Space	-	-	0.05
4704	668859.0	4280805.0	Roadway/Open Space	-	-	0.05
4705	668869.0	4280805.0	Roadway/Open Space	-	-	0.05
4706	668879.0	4280805.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4707	668889.0	4280805.0	Roadway/Open Space	-	-	0.05
4708	668899.0	4280805.0	Roadway/Open Space	-	-	0.05
4709	668909.0	4280805.0	Roadway/Open Space	-	-	0.05
4710	668919.0	4280805.0	Roadway/Open Space	-	-	0.06
4711	668929.0	4280805.0	Roadway/Open Space	-	-	0.06
4712	668939.0	4280805.0	Roadway/Open Space	-	-	0.06
4713	668949.0	4280805.0	Roadway/Open Space	-	-	0.06
4740	669219.0	4280805.0	Roadway/Open Space	-	-	0.07
4741	669229.0	4280805.0	Roadway/Open Space	-	-	0.07
4742	669239.0	4280805.0	Roadway/Open Space	-	-	0.06
4743	669249.0	4280805.0	Roadway/Open Space	-	-	0.06
4744	669259.0	4280805.0	Roadway/Open Space	-	-	0.06
4745	669269.0	4280805.0	Roadway/Open Space	-	-	0.06
4746	669279.0	4280805.0	Roadway/Open Space	-	-	0.05
4747	669289.0	4280805.0	Roadway/Open Space	-	-	0.05
4748	669299.0	4280805.0	Roadway/Open Space	-	-	0.05
4749	669309.0	4280805.0	Roadway/Open Space	-	-	0.05
4750	669319.0	4280805.0	Roadway/Open Space	-	-	0.06
4751	669329.0	4280805.0	Roadway/Open Space	-	-	0.06
4752	669339.0	4280805.0	Roadway/Open Space	-	-	0.06
4753	669349.0	4280805.0	Roadway/Open Space	-	-	0.05
4754	669359.0	4280805.0	Roadway/Open Space	-	-	0.05
4755	669369.0	4280805.0	Roadway/Open Space	-	-	0.04
4756	669379.0	4280805.0	Roadway/Open Space	-	-	0.04
4757	669389.0	4280805.0	Roadway/Open Space	-	-	0.04
4758	669399.0	4280805.0	Roadway/Open Space	-	-	0.04
4759	669409.0	4280805.0	Roadway/Open Space	-	-	0.04
4760	669419.0	4280805.0	Roadway/Open Space	-	-	0.03
4761	669429.0	4280805.0	Roadway/Open Space	-	-	0.03
4762	669439.0	4280805.0	Roadway/Open Space	-	-	0.03
4763	669449.0	4280805.0	Roadway/Open Space	-	-	0.03
4764	669459.0	4280805.0	Roadway/Open Space	-	-	0.03
4765	669469.0	4280805.0	Roadway/Open Space	-	-	0.03
4766	669479.0	4280805.0	Roadway/Open Space	-	-	0.03
4767	669489.0	4280805.0	Roadway/Open Space	-	-	0.03
4768	669499.0	4280805.0	Roadway/Open Space	-	-	0.03
4769	669509.0	4280805.0	Roadway/Open Space	-	-	0.03
4770	669519.0	4280805.0	Worker	0.05	0.003	0.03
4771	669529.0	4280805.0	Worker	0.04	0.003	0.03
4772	669539.0	4280805.0	Worker	0.04	0.002	0.03
4773	669549.0	4280805.0	Worker	0.04	0.002	0.03
4774	669559.0	4280805.0	Worker	0.04	0.002	0.03
4775	669569.0	4280805.0	Worker	0.04	0.002	0.03
4776	669579.0	4280805.0	Worker	0.03	0.002	0.03
4777	669589.0	4280805.0	Worker	0.03	0.002	0.03
4778	669599.0	4280805.0	Roadway/Open Space	-	-	0.03
4779	669609.0	4280805.0	Roadway/Open Space	-	-	0.03
4780	669619.0	4280805.0	Roadway/Open Space	-	-	0.03
4781	668539.0	4280815.0	Residential	0.12	0.000	0.02
4782	668549.0	4280815.0	Residential	0.12	0.000	0.02
4783	668559.0	4280815.0	Residential	0.13	0.000	0.02
4784	668569.0	4280815.0	Residential	0.13	0.000	0.02
4785	668579.0	4280815.0	Residential	0.13	0.000	0.02
4786	668589.0	4280815.0	Residential	0.13	0.000	0.02
4787	668599.0	4280815.0	Residential	0.14	0.001	0.02
4788	668609.0	4280815.0	Residential	0.14	0.001	0.02
4789	668619.0	4280815.0	Residential	0.14	0.001	0.02
4790	668629.0	4280815.0	Residential	0.14	0.001	0.02
4791	668639.0	4280815.0	Residential	0.14	0.001	0.02
4792	668649.0	4280815.0	Roadway/Open Space	-	-	0.02
4793	668659.0	4280815.0	Residential	0.15	0.001	0.02
4794	668669.0	4280815.0	Residential	0.15	0.001	0.02
4795	668679.0	4280815.0	Residential	0.16	0.001	0.02
4796	668689.0	4280815.0	Residential	0.18	0.001	0.02
4797	668699.0	4280815.0	Residential	0.19	0.001	0.02
4798	668709.0	4280815.0	Residential	0.22	0.001	0.02
4799	668719.0	4280815.0	Residential	0.25	0.001	0.03
4800	668729.0	4280815.0	Roadway/Open Space	-	-	0.03
4801	668739.0	4280815.0	Roadway/Open Space	-	-	0.03
4802	668749.0	4280815.0	Roadway/Open Space	-	-	0.04
4803	668759.0	4280815.0	Roadway/Open Space	-	-	0.04
4804	668769.0	4280815.0	Roadway/Open Space	-	-	0.05
4805	668779.0	4280815.0	Roadway/Open Space	-	-	0.05
4806	668789.0	4280815.0	Roadway/Open Space	-	-	0.05
4807	668799.0	4280815.0	Roadway/Open Space	-	-	0.05
4808	668809.0	4280815.0	Roadway/Open Space	-	-	0.04
4809	668819.0	4280815.0	Roadway/Open Space	-	-	0.05
4810	668829.0	4280815.0	Roadway/Open Space	-	-	0.05
4811	668839.0	4280815.0	Roadway/Open Space	-	-	0.05
4812	668849.0	4280815.0	Roadway/Open Space	-	-	0.05
4813	668859.0	4280815.0	Roadway/Open Space	-	-	0.05
4814	668869.0	4280815.0	Roadway/Open Space	-	-	0.05
4815	668879.0	4280815.0	Roadway/Open Space	-	-	0.05
4816	668889.0	4280815.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4817	668899.0	4280815.0	Roadway/Open Space	-	-	0.05
4818	668909.0	4280815.0	Roadway/Open Space	-	-	0.05
4819	668919.0	4280815.0	Roadway/Open Space	-	-	0.06
4820	668929.0	4280815.0	Roadway/Open Space	-	-	0.06
4821	668939.0	4280815.0	Roadway/Open Space	-	-	0.06
4822	668949.0	4280815.0	Roadway/Open Space	-	-	0.06
4848	669209.0	4280815.0	Roadway/Open Space	-	-	0.07
4849	669219.0	4280815.0	Roadway/Open Space	-	-	0.07
4850	669229.0	4280815.0	Roadway/Open Space	-	-	0.07
4851	669239.0	4280815.0	Roadway/Open Space	-	-	0.06
4852	669249.0	4280815.0	Roadway/Open Space	-	-	0.06
4853	669259.0	4280815.0	Roadway/Open Space	-	-	0.06
4854	669269.0	4280815.0	Roadway/Open Space	-	-	0.06
4855	669279.0	4280815.0	Roadway/Open Space	-	-	0.06
4856	669289.0	4280815.0	Roadway/Open Space	-	-	0.05
4857	669299.0	4280815.0	Roadway/Open Space	-	-	0.05
4858	669309.0	4280815.0	Roadway/Open Space	-	-	0.06
4859	669319.0	4280815.0	Roadway/Open Space	-	-	0.06
4860	669329.0	4280815.0	Roadway/Open Space	-	-	0.06
4861	669339.0	4280815.0	Roadway/Open Space	-	-	0.06
4862	669349.0	4280815.0	Roadway/Open Space	-	-	0.05
4863	669359.0	4280815.0	Roadway/Open Space	-	-	0.05
4864	669369.0	4280815.0	Roadway/Open Space	-	-	0.05
4865	669379.0	4280815.0	Roadway/Open Space	-	-	0.04
4866	669389.0	4280815.0	Roadway/Open Space	-	-	0.04
4867	669399.0	4280815.0	Roadway/Open Space	-	-	0.04
4868	669409.0	4280815.0	Roadway/Open Space	-	-	0.04
4869	669419.0	4280815.0	Roadway/Open Space	-	-	0.04
4870	669429.0	4280815.0	Roadway/Open Space	-	-	0.03
4871	669439.0	4280815.0	Roadway/Open Space	-	-	0.03
4872	669449.0	4280815.0	Roadway/Open Space	-	-	0.03
4873	669459.0	4280815.0	Roadway/Open Space	-	-	0.03
4874	669469.0	4280815.0	Roadway/Open Space	-	-	0.03
4875	669479.0	4280815.0	Roadway/Open Space	-	-	0.03
4876	669489.0	4280815.0	Roadway/Open Space	-	-	0.03
4877	669499.0	4280815.0	Roadway/Open Space	-	-	0.03
4878	669509.0	4280815.0	Roadway/Open Space	-	-	0.03
4879	669519.0	4280815.0	Roadway/Open Space	-	-	0.03
4880	669529.0	4280815.0	Worker	0.04	0.003	0.03
4881	669539.0	4280815.0	Worker	0.04	0.002	0.03
4882	669549.0	4280815.0	Worker	0.04	0.002	0.02
4883	669559.0	4280815.0	Worker	0.04	0.002	0.03
4884	669569.0	4280815.0	Worker	0.04	0.002	0.03
4885	669579.0	4280815.0	Worker	0.03	0.002	0.03
4886	669589.0	4280815.0	Worker	0.03	0.002	0.03
4887	669599.0	4280815.0	Roadway/Open Space	-	-	0.03
4888	669609.0	4280815.0	Roadway/Open Space	-	-	0.03
4889	669619.0	4280815.0	Roadway/Open Space	-	-	0.03
4890	668529.0	4280825.0	Residential	0.11	0.000	0.02
4891	668539.0	4280825.0	Residential	0.11	0.000	0.02
4892	668549.0	4280825.0	Residential	0.11	0.000	0.02
4893	668559.0	4280825.0	Residential	0.12	0.000	0.02
4894	668569.0	4280825.0	Residential	0.12	0.000	0.02
4895	668579.0	4280825.0	Residential	0.12	0.000	0.02
4896	668589.0	4280825.0	Residential	0.13	0.000	0.02
4897	668599.0	4280825.0	Residential	0.13	0.000	0.02
4898	668609.0	4280825.0	Residential	0.13	0.000	0.02
4899	668619.0	4280825.0	Residential	0.13	0.000	0.02
4900	668629.0	4280825.0	Residential	0.13	0.000	0.02
4901	668639.0	4280825.0	Residential	0.13	0.000	0.02
4902	668649.0	4280825.0	Roadway/Open Space	-	-	0.01
4903	668659.0	4280825.0	Residential	0.14	0.001	0.01
4904	668669.0	4280825.0	Residential	0.15	0.001	0.02
4905	668679.0	4280825.0	Residential	0.16	0.001	0.02
4906	668689.0	4280825.0	Residential	0.18	0.001	0.02
4907	668699.0	4280825.0	Residential	0.20	0.001	0.02
4908	668709.0	4280825.0	Residential	0.22	0.001	0.02
4909	668719.0	4280825.0	Roadway/Open Space	-	-	0.03
4910	668729.0	4280825.0	Roadway/Open Space	-	-	0.03
4911	668739.0	4280825.0	Roadway/Open Space	-	-	0.04
4912	668749.0	4280825.0	Roadway/Open Space	-	-	0.04
4913	668759.0	4280825.0	Roadway/Open Space	-	-	0.05
4914	668769.0	4280825.0	Roadway/Open Space	-	-	0.05
4915	668779.0	4280825.0	Roadway/Open Space	-	-	0.05
4916	668789.0	4280825.0	Roadway/Open Space	-	-	0.05
4917	668799.0	4280825.0	Roadway/Open Space	-	-	0.05
4918	668809.0	4280825.0	Roadway/Open Space	-	-	0.05
4919	668819.0	4280825.0	Roadway/Open Space	-	-	0.05
4920	668829.0	4280825.0	Roadway/Open Space	-	-	0.05
4921	668839.0	4280825.0	Roadway/Open Space	-	-	0.05
4922	668849.0	4280825.0	Roadway/Open Space	-	-	0.05
4923	668859.0	4280825.0	Roadway/Open Space	-	-	0.05
4924	668869.0	4280825.0	Roadway/Open Space	-	-	0.05
4925	668879.0	4280825.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
4926	668889.0	4280825.0	Roadway/Open Space	-	-	0.05
4927	668899.0	4280825.0	Roadway/Open Space	-	-	0.05
4928	668909.0	4280825.0	Roadway/Open Space	-	-	0.06
4929	668919.0	4280825.0	Roadway/Open Space	-	-	0.06
4930	668929.0	4280825.0	Roadway/Open Space	-	-	0.06
4931	668939.0	4280825.0	Roadway/Open Space	-	-	0.06
4958	669209.0	4280825.0	Roadway/Open Space	-	-	0.07
4959	669219.0	4280825.0	Roadway/Open Space	-	-	0.07
4960	669229.0	4280825.0	Roadway/Open Space	-	-	0.07
4961	669239.0	4280825.0	Roadway/Open Space	-	-	0.07
4962	669249.0	4280825.0	Roadway/Open Space	-	-	0.06
4963	669259.0	4280825.0	Roadway/Open Space	-	-	0.06
4964	669269.0	4280825.0	Roadway/Open Space	-	-	0.06
4965	669279.0	4280825.0	Roadway/Open Space	-	-	0.06
4966	669289.0	4280825.0	Roadway/Open Space	-	-	0.06
4967	669299.0	4280825.0	Roadway/Open Space	-	-	0.06
4968	669309.0	4280825.0	Roadway/Open Space	-	-	0.06
4969	669319.0	4280825.0	Roadway/Open Space	-	-	0.06
4970	669329.0	4280825.0	Roadway/Open Space	-	-	0.06
4971	669339.0	4280825.0	Roadway/Open Space	-	-	0.06
4972	669349.0	4280825.0	Roadway/Open Space	-	-	0.06
4973	669359.0	4280825.0	Roadway/Open Space	-	-	0.05
4974	669369.0	4280825.0	Roadway/Open Space	-	-	0.05
4975	669379.0	4280825.0	Roadway/Open Space	-	-	0.05
4976	669389.0	4280825.0	Roadway/Open Space	-	-	0.04
4977	669399.0	4280825.0	Roadway/Open Space	-	-	0.04
4978	669409.0	4280825.0	Roadway/Open Space	-	-	0.04
4979	669419.0	4280825.0	Roadway/Open Space	-	-	0.04
4980	669429.0	4280825.0	Roadway/Open Space	-	-	0.03
4981	669439.0	4280825.0	Roadway/Open Space	-	-	0.03
4982	669449.0	4280825.0	Roadway/Open Space	-	-	0.03
4983	669459.0	4280825.0	Roadway/Open Space	-	-	0.03
4984	669469.0	4280825.0	Roadway/Open Space	-	-	0.03
4985	669479.0	4280825.0	Roadway/Open Space	-	-	0.03
4986	669489.0	4280825.0	Roadway/Open Space	-	-	0.03
4987	669499.0	4280825.0	Roadway/Open Space	-	-	0.03
4988	669509.0	4280825.0	Roadway/Open Space	-	-	0.03
4989	669519.0	4280825.0	Roadway/Open Space	-	-	0.03
4990	669529.0	4280825.0	Worker	0.04	0.003	0.03
4991	669539.0	4280825.0	Worker	0.04	0.002	0.03
4992	669549.0	4280825.0	Worker	0.04	0.002	0.02
4993	669559.0	4280825.0	Worker	0.04	0.002	0.03
4994	669569.0	4280825.0	Worker	0.04	0.002	0.03
4995	669579.0	4280825.0	Worker	0.03	0.002	0.03
4996	669589.0	4280825.0	Worker	0.03	0.002	0.03
4997	669599.0	4280825.0	Roadway/Open Space	-	-	0.03
4998	669609.0	4280825.0	Roadway/Open Space	-	-	0.03
4999	669619.0	4280825.0	Roadway/Open Space	-	-	0.03
5000	668529.0	4280835.0	Residential	0.10	0.0004	0.02
5001	668539.0	4280835.0	Residential	0.11	0.0004	0.02
5002	668549.0	4280835.0	Residential	0.11	0.0004	0.01
5003	668559.0	4280835.0	Residential	0.11	0.0004	0.01
5004	668569.0	4280835.0	Residential	0.11	0.000	0.01
5005	668579.0	4280835.0	Residential	0.11	0.000	0.01
5006	668589.0	4280835.0	Residential	0.12	0.000	0.01
5007	668599.0	4280835.0	Residential	0.12	0.000	0.01
5008	668609.0	4280835.0	Residential	0.12	0.000	0.01
5009	668619.0	4280835.0	Residential	0.12	0.000	0.01
5010	668629.0	4280835.0	Residential	0.13	0.000	0.01
5011	668639.0	4280835.0	Residential	0.13	0.000	0.01
5012	668649.0	4280835.0	Roadway/Open Space	-	-	0.01
5013	668659.0	4280835.0	Residential	0.14	0.001	0.01
5014	668669.0	4280835.0	Residential	0.15	0.001	0.02
5015	668679.0	4280835.0	Residential	0.16	0.001	0.02
5016	668689.0	4280835.0	Residential	0.18	0.001	0.02
5017	668699.0	4280835.0	Residential	0.20	0.001	0.02
5018	668709.0	4280835.0	Roadway/Open Space	-	-	0.02
5019	668719.0	4280835.0	Roadway/Open Space	-	-	0.03
5020	668729.0	4280835.0	Roadway/Open Space	-	-	0.03
5021	668739.0	4280835.0	Roadway/Open Space	-	-	0.04
5022	668749.0	4280835.0	Roadway/Open Space	-	-	0.04
5023	668759.0	4280835.0	Roadway/Open Space	-	-	0.05
5024	668769.0	4280835.0	Roadway/Open Space	-	-	0.05
5025	668779.0	4280835.0	Roadway/Open Space	-	-	0.05
5026	668789.0	4280835.0	Roadway/Open Space	-	-	0.05
5027	668799.0	4280835.0	Roadway/Open Space	-	-	0.05
5028	668809.0	4280835.0	Roadway/Open Space	-	-	0.05
5029	668819.0	4280835.0	Roadway/Open Space	-	-	0.05
5030	668829.0	4280835.0	Roadway/Open Space	-	-	0.05
5031	668839.0	4280835.0	Roadway/Open Space	-	-	0.05
5032	668849.0	4280835.0	Roadway/Open Space	-	-	0.05
5033	668859.0	4280835.0	Roadway/Open Space	-	-	0.05
5034	668869.0	4280835.0	Roadway/Open Space	-	-	0.05
5035	668879.0	4280835.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5036	668889.0	4280835.0	Roadway/Open Space	-	-	0.05
5037	668899.0	4280835.0	Roadway/Open Space	-	-	0.05
5038	668909.0	4280835.0	Roadway/Open Space	-	-	0.06
5039	668919.0	4280835.0	Roadway/Open Space	-	-	0.06
5040	668929.0	4280835.0	Roadway/Open Space	-	-	0.06
5041	668939.0	4280835.0	Roadway/Open Space	-	-	0.07
5068	669209.0	4280835.0	Roadway/Open Space	-	-	0.07
5069	669219.0	4280835.0	Roadway/Open Space	-	-	0.07
5070	669229.0	4280835.0	Roadway/Open Space	-	-	0.07
5071	669239.0	4280835.0	Roadway/Open Space	-	-	0.07
5072	669249.0	4280835.0	Roadway/Open Space	-	-	0.06
5073	669259.0	4280835.0	Roadway/Open Space	-	-	0.06
5074	669269.0	4280835.0	Roadway/Open Space	-	-	0.06
5075	669279.0	4280835.0	Roadway/Open Space	-	-	0.06
5076	669289.0	4280835.0	Roadway/Open Space	-	-	0.06
5077	669299.0	4280835.0	Roadway/Open Space	-	-	0.06
5078	669309.0	4280835.0	Roadway/Open Space	-	-	0.06
5079	669319.0	4280835.0	Roadway/Open Space	-	-	0.06
5080	669329.0	4280835.0	Roadway/Open Space	-	-	0.06
5081	669339.0	4280835.0	Roadway/Open Space	-	-	0.06
5082	669349.0	4280835.0	Roadway/Open Space	-	-	0.06
5083	669359.0	4280835.0	Roadway/Open Space	-	-	0.05
5084	669369.0	4280835.0	Roadway/Open Space	-	-	0.05
5085	669379.0	4280835.0	Roadway/Open Space	-	-	0.05
5086	669389.0	4280835.0	Roadway/Open Space	-	-	0.04
5087	669399.0	4280835.0	Roadway/Open Space	-	-	0.04
5088	669409.0	4280835.0	Roadway/Open Space	-	-	0.04
5089	669419.0	4280835.0	Roadway/Open Space	-	-	0.04
5090	669429.0	4280835.0	Roadway/Open Space	-	-	0.04
5091	669439.0	4280835.0	Roadway/Open Space	-	-	0.03
5092	669449.0	4280835.0	Roadway/Open Space	-	-	0.03
5093	669459.0	4280835.0	Roadway/Open Space	-	-	0.03
5094	669469.0	4280835.0	Roadway/Open Space	-	-	0.03
5095	669479.0	4280835.0	Roadway/Open Space	-	-	0.03
5096	669489.0	4280835.0	Roadway/Open Space	-	-	0.03
5097	669499.0	4280835.0	Roadway/Open Space	-	-	0.03
5098	669509.0	4280835.0	Roadway/Open Space	-	-	0.03
5099	669519.0	4280835.0	Roadway/Open Space	-	-	0.03
5100	669529.0	4280835.0	Roadway/Open Space	-	-	0.03
5101	669539.0	4280835.0	Roadway/Open Space	-	-	0.02
5102	669549.0	4280835.0	Roadway/Open Space	-	-	0.02
5103	669559.0	4280835.0	Worker	0.04	0.002	0.03
5104	669569.0	4280835.0	Worker	0.04	0.002	0.03
5105	669579.0	4280835.0	Worker	0.03	0.002	0.03
5106	669589.0	4280835.0	Worker	0.03	0.002	0.03
5107	669599.0	4280835.0	Roadway/Open Space	-	-	0.03
5108	669609.0	4280835.0	Roadway/Open Space	-	-	0.03
5109	669619.0	4280835.0	Roadway/Open Space	-	-	0.03
5110	668529.0	4280845.0	Residential	0.10	0.0004	0.01
5111	668539.0	4280845.0	Residential	0.10	0.0004	0.01
5112	668549.0	4280845.0	Residential	0.10	0.0004	0.01
5113	668559.0	4280845.0	Residential	0.10	0.0004	0.01
5114	668569.0	4280845.0	Residential	0.10	0.0004	0.01
5115	668579.0	4280845.0	Residential	0.11	0.0004	0.01
5116	668589.0	4280845.0	Residential	0.11	0.0004	0.01
5117	668599.0	4280845.0	Residential	0.11	0.000	0.01
5118	668609.0	4280845.0	Residential	0.11	0.000	0.01
5119	668619.0	4280845.0	Residential	0.12	0.000	0.01
5120	668629.0	4280845.0	Residential	0.13	0.000	0.01
5121	668639.0	4280845.0	Residential	0.13	0.000	0.01
5122	668649.0	4280845.0	Roadway/Open Space	-	-	0.01
5123	668659.0	4280845.0	Residential	0.14	0.001	0.02
5124	668669.0	4280845.0	Residential	0.15	0.001	0.02
5125	668679.0	4280845.0	Residential	0.16	0.001	0.02
5126	668689.0	4280845.0	Residential	0.18	0.001	0.02
5127	668699.0	4280845.0	Residential	0.20	0.001	0.02
5128	668709.0	4280845.0	Roadway/Open Space	-	-	0.02
5129	668719.0	4280845.0	Roadway/Open Space	-	-	0.03
5130	668729.0	4280845.0	Roadway/Open Space	-	-	0.03
5131	668739.0	4280845.0	Roadway/Open Space	-	-	0.04
5132	668749.0	4280845.0	Roadway/Open Space	-	-	0.04
5133	668759.0	4280845.0	Roadway/Open Space	-	-	0.05
5134	668769.0	4280845.0	Roadway/Open Space	-	-	0.05
5135	668779.0	4280845.0	Roadway/Open Space	-	-	0.05
5136	668789.0	4280845.0	Roadway/Open Space	-	-	0.06
5137	668799.0	4280845.0	Roadway/Open Space	-	-	0.05
5138	668809.0	4280845.0	Roadway/Open Space	-	-	0.05
5139	668819.0	4280845.0	Roadway/Open Space	-	-	0.05
5140	668829.0	4280845.0	Roadway/Open Space	-	-	0.05
5141	668839.0	4280845.0	Roadway/Open Space	-	-	0.05
5142	668849.0	4280845.0	Roadway/Open Space	-	-	0.05
5143	668859.0	4280845.0	Roadway/Open Space	-	-	0.05
5144	668869.0	4280845.0	Roadway/Open Space	-	-	0.05
5145	668879.0	4280845.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5146	668889.0	4280845.0	Roadway/Open Space	-	-	0.05
5147	668899.0	4280845.0	Roadway/Open Space	-	-	0.05
5148	668909.0	4280845.0	Roadway/Open Space	-	-	0.06
5149	668919.0	4280845.0	Roadway/Open Space	-	-	0.06
5150	668929.0	4280845.0	Roadway/Open Space	-	-	0.07
5177	669199.0	4280845.0	Roadway/Open Space	-	-	0.08
5178	669209.0	4280845.0	Roadway/Open Space	-	-	0.07
5179	669219.0	4280845.0	Roadway/Open Space	-	-	0.07
5180	669229.0	4280845.0	Roadway/Open Space	-	-	0.07
5181	669239.0	4280845.0	Roadway/Open Space	-	-	0.07
5182	669249.0	4280845.0	Roadway/Open Space	-	-	0.07
5183	669259.0	4280845.0	Roadway/Open Space	-	-	0.06
5184	669269.0	4280845.0	Roadway/Open Space	-	-	0.06
5185	669279.0	4280845.0	Roadway/Open Space	-	-	0.06
5186	669289.0	4280845.0	Roadway/Open Space	-	-	0.06
5187	669299.0	4280845.0	Roadway/Open Space	-	-	0.06
5188	669309.0	4280845.0	Roadway/Open Space	-	-	0.06
5189	669319.0	4280845.0	Roadway/Open Space	-	-	0.06
5190	669329.0	4280845.0	Roadway/Open Space	-	-	0.06
5191	669339.0	4280845.0	Roadway/Open Space	-	-	0.06
5192	669349.0	4280845.0	Roadway/Open Space	-	-	0.06
5193	669359.0	4280845.0	Roadway/Open Space	-	-	0.06
5194	669369.0	4280845.0	Roadway/Open Space	-	-	0.05
5195	669379.0	4280845.0	Roadway/Open Space	-	-	0.05
5196	669389.0	4280845.0	Roadway/Open Space	-	-	0.05
5197	669399.0	4280845.0	Roadway/Open Space	-	-	0.04
5198	669409.0	4280845.0	Roadway/Open Space	-	-	0.04
5199	669419.0	4280845.0	Roadway/Open Space	-	-	0.04
5200	669429.0	4280845.0	Roadway/Open Space	-	-	0.04
5201	669439.0	4280845.0	Roadway/Open Space	-	-	0.03
5202	669449.0	4280845.0	Roadway/Open Space	-	-	0.03
5203	669459.0	4280845.0	Roadway/Open Space	-	-	0.03
5204	669469.0	4280845.0	Roadway/Open Space	-	-	0.03
5205	669479.0	4280845.0	Roadway/Open Space	-	-	0.03
5206	669489.0	4280845.0	Roadway/Open Space	-	-	0.03
5207	669499.0	4280845.0	Roadway/Open Space	-	-	0.03
5208	669509.0	4280845.0	Roadway/Open Space	-	-	0.03
5209	669519.0	4280845.0	Roadway/Open Space	-	-	0.03
5210	669529.0	4280845.0	Roadway/Open Space	-	-	0.03
5211	669539.0	4280845.0	Roadway/Open Space	-	-	0.03
5212	669549.0	4280845.0	Roadway/Open Space	-	-	0.02
5213	669559.0	4280845.0	Worker	0.04	0.002	0.02
5214	669569.0	4280845.0	Worker	0.04	0.002	0.03
5215	669579.0	4280845.0	Worker	0.03	0.002	0.03
5216	669589.0	4280845.0	Worker	0.03	0.002	0.03
5217	669599.0	4280845.0	Roadway/Open Space	-	-	0.03
5218	669609.0	4280845.0	Roadway/Open Space	-	-	0.03
5219	669619.0	4280845.0	Roadway/Open Space	-	-	0.03
5220	668529.0	4280855.0	Residential	0.09	0.0003	0.01
5221	668539.0	4280855.0	Residential	0.09	0.0003	0.01
5222	668549.0	4280855.0	Residential	0.09	0.0003	0.01
5223	668559.0	4280855.0	Residential	0.09	0.0003	0.01
5224	668569.0	4280855.0	Residential	0.10	0.0004	0.01
5225	668579.0	4280855.0	Residential	0.10	0.0004	0.01
5226	668589.0	4280855.0	Residential	0.10	0.0004	0.01
5227	668599.0	4280855.0	Residential	0.11	0.0004	0.01
5228	668609.0	4280855.0	Residential	0.11	0.0004	0.01
5229	668619.0	4280855.0	Residential	0.12	0.000	0.01
5230	668629.0	4280855.0	Residential	0.12	0.000	0.01
5231	668639.0	4280855.0	Residential	0.13	0.000	0.01
5232	668649.0	4280855.0	Roadway/Open Space	-	-	0.01
5233	668659.0	4280855.0	Residential	0.14	0.001	0.01
5234	668669.0	4280855.0	Residential	0.15	0.001	0.02
5235	668679.0	4280855.0	Residential	0.17	0.001	0.02
5236	668689.0	4280855.0	Residential	0.19	0.001	0.02
5237	668699.0	4280855.0	Residential	0.21	0.001	0.02
5238	668709.0	4280855.0	Roadway/Open Space	-	-	0.03
5239	668719.0	4280855.0	Roadway/Open Space	-	-	0.03
5240	668729.0	4280855.0	Roadway/Open Space	-	-	0.03
5241	668739.0	4280855.0	Roadway/Open Space	-	-	0.04
5242	668749.0	4280855.0	Roadway/Open Space	-	-	0.04
5243	668759.0	4280855.0	Roadway/Open Space	-	-	0.05
5244	668769.0	4280855.0	Roadway/Open Space	-	-	0.05
5245	668779.0	4280855.0	Roadway/Open Space	-	-	0.06
5246	668789.0	4280855.0	Roadway/Open Space	-	-	0.06
5247	668799.0	4280855.0	Roadway/Open Space	-	-	0.05
5248	668809.0	4280855.0	Roadway/Open Space	-	-	0.05
5249	668819.0	4280855.0	Roadway/Open Space	-	-	0.05
5250	668829.0	4280855.0	Roadway/Open Space	-	-	0.05
5251	668839.0	4280855.0	Roadway/Open Space	-	-	0.05
5252	668849.0	4280855.0	Roadway/Open Space	-	-	0.05
5253	668859.0	4280855.0	Roadway/Open Space	-	-	0.05
5254	668869.0	4280855.0	Roadway/Open Space	-	-	0.05
5255	668879.0	4280855.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5256	668889.0	4280855.0	Roadway/Open Space	-	-	0.05
5257	668899.0	4280855.0	Roadway/Open Space	-	-	0.06
5258	668909.0	4280855.0	Roadway/Open Space	-	-	0.06
5259	668919.0	4280855.0	Roadway/Open Space	-	-	0.07
5260	668929.0	4280855.0	Roadway/Open Space	-	-	0.07
5287	669199.0	4280855.0	Roadway/Open Space	-	-	0.08
5288	669209.0	4280855.0	Roadway/Open Space	-	-	0.08
5289	669219.0	4280855.0	Roadway/Open Space	-	-	0.07
5290	669229.0	4280855.0	Roadway/Open Space	-	-	0.07
5291	669239.0	4280855.0	Roadway/Open Space	-	-	0.07
5292	669249.0	4280855.0	Roadway/Open Space	-	-	0.07
5293	669259.0	4280855.0	Roadway/Open Space	-	-	0.06
5294	669269.0	4280855.0	Roadway/Open Space	-	-	0.06
5295	669279.0	4280855.0	Roadway/Open Space	-	-	0.06
5296	669289.0	4280855.0	Roadway/Open Space	-	-	0.06
5297	669299.0	4280855.0	Roadway/Open Space	-	-	0.06
5298	669309.0	4280855.0	Roadway/Open Space	-	-	0.06
5299	669319.0	4280855.0	Roadway/Open Space	-	-	0.06
5300	669329.0	4280855.0	Roadway/Open Space	-	-	0.06
5301	669339.0	4280855.0	Roadway/Open Space	-	-	0.06
5302	669349.0	4280855.0	Roadway/Open Space	-	-	0.06
5303	669359.0	4280855.0	Roadway/Open Space	-	-	0.06
5304	669369.0	4280855.0	Roadway/Open Space	-	-	0.06
5305	669379.0	4280855.0	Roadway/Open Space	-	-	0.05
5306	669389.0	4280855.0	Roadway/Open Space	-	-	0.05
5307	669399.0	4280855.0	Roadway/Open Space	-	-	0.04
5308	669409.0	4280855.0	Roadway/Open Space	-	-	0.04
5309	669419.0	4280855.0	Roadway/Open Space	-	-	0.04
5310	669429.0	4280855.0	Roadway/Open Space	-	-	0.04
5311	669439.0	4280855.0	Roadway/Open Space	-	-	0.03
5312	669449.0	4280855.0	Roadway/Open Space	-	-	0.03
5313	669459.0	4280855.0	Roadway/Open Space	-	-	0.03
5314	669469.0	4280855.0	Roadway/Open Space	-	-	0.03
5315	669479.0	4280855.0	Roadway/Open Space	-	-	0.03
5316	669489.0	4280855.0	Roadway/Open Space	-	-	0.03
5317	669499.0	4280855.0	Roadway/Open Space	-	-	0.03
5318	669509.0	4280855.0	Roadway/Open Space	-	-	0.03
5319	669519.0	4280855.0	Roadway/Open Space	-	-	0.03
5320	669529.0	4280855.0	Roadway/Open Space	-	-	0.03
5321	669539.0	4280855.0	Roadway/Open Space	-	-	0.03
5322	669549.0	4280855.0	Roadway/Open Space	-	-	0.02
5323	669559.0	4280855.0	Roadway/Open Space	-	-	0.02
5324	669569.0	4280855.0	Roadway/Open Space	-	-	0.03
5325	669579.0	4280855.0	Worker	0.03	0.002	0.03
5326	669589.0	4280855.0	Worker	0.03	0.002	0.03
5327	669599.0	4280855.0	Roadway/Open Space	-	-	0.03
5328	669609.0	4280855.0	Roadway/Open Space	-	-	0.03
5329	669619.0	4280855.0	Roadway/Open Space	-	-	0.03
5330	668519.0	4280865.0	Roadway/Open Space	-	-	0.01
5331	668529.0	4280865.0	Residential	0.09	0.0003	0.01
5332	668539.0	4280865.0	Residential	0.09	0.0003	0.01
5333	668549.0	4280865.0	Residential	0.09	0.0003	0.01
5334	668559.0	4280865.0	Residential	0.09	0.0003	0.01
5335	668569.0	4280865.0	Residential	0.09	0.0003	0.01
5336	668579.0	4280865.0	Residential	0.10	0.0004	0.01
5337	668589.0	4280865.0	Residential	0.10	0.0004	0.01
5338	668599.0	4280865.0	Residential	0.10	0.0004	0.01
5339	668609.0	4280865.0	Residential	0.11	0.0004	0.01
5340	668619.0	4280865.0	Residential	0.12	0.000	0.01
5341	668629.0	4280865.0	Residential	0.12	0.000	0.01
5342	668639.0	4280865.0	Residential	0.13	0.000	0.01
5343	668649.0	4280865.0	Roadway/Open Space	-	-	0.01
5344	668659.0	4280865.0	Residential	0.14	0.001	0.01
5345	668669.0	4280865.0	Residential	0.15	0.001	0.02
5346	668679.0	4280865.0	Residential	0.17	0.001	0.02
5347	668689.0	4280865.0	Residential	0.19	0.001	0.02
5348	668699.0	4280865.0	Residential	0.22	0.001	0.02
5349	668709.0	4280865.0	Roadway/Open Space	-	-	0.03
5350	668719.0	4280865.0	Roadway/Open Space	-	-	0.03
5351	668729.0	4280865.0	Roadway/Open Space	-	-	0.03
5352	668739.0	4280865.0	Roadway/Open Space	-	-	0.04
5353	668749.0	4280865.0	Roadway/Open Space	-	-	0.05
5354	668759.0	4280865.0	Roadway/Open Space	-	-	0.05
5355	668769.0	4280865.0	Roadway/Open Space	-	-	0.06
5356	668779.0	4280865.0	Roadway/Open Space	-	-	0.06
5357	668789.0	4280865.0	Roadway/Open Space	-	-	0.06
5358	668799.0	4280865.0	Roadway/Open Space	-	-	0.05
5359	668809.0	4280865.0	Roadway/Open Space	-	-	0.05
5360	668819.0	4280865.0	Roadway/Open Space	-	-	0.05
5361	668829.0	4280865.0	Roadway/Open Space	-	-	0.05
5362	668839.0	4280865.0	Roadway/Open Space	-	-	0.05
5363	668849.0	4280865.0	Roadway/Open Space	-	-	0.05
5364	668859.0	4280865.0	Roadway/Open Space	-	-	0.05
5365	668869.0	4280865.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5366	668879.0	4280865.0	Roadway/Open Space	-	-	0.05
5367	668889.0	4280865.0	Roadway/Open Space	-	-	0.05
5368	668899.0	4280865.0	Roadway/Open Space	-	-	0.06
5369	668909.0	4280865.0	Roadway/Open Space	-	-	0.06
5370	668919.0	4280865.0	Roadway/Open Space	-	-	0.07
5371	668929.0	4280865.0	Roadway/Open Space	-	-	0.07
5397	669189.0	4280865.0	Roadway/Open Space	-	-	0.08
5398	669199.0	4280865.0	Roadway/Open Space	-	-	0.08
5399	669209.0	4280865.0	Roadway/Open Space	-	-	0.08
5400	669219.0	4280865.0	Roadway/Open Space	-	-	0.07
5401	669229.0	4280865.0	Roadway/Open Space	-	-	0.07
5402	669249.0	4280865.0	Roadway/Open Space	-	-	0.06
5403	669259.0	4280865.0	Roadway/Open Space	-	-	0.06
5404	669269.0	4280865.0	Roadway/Open Space	-	-	0.06
5405	669299.0	4280865.0	Roadway/Open Space	-	-	0.06
5406	669309.0	4280865.0	Roadway/Open Space	-	-	0.06
5407	669319.0	4280865.0	Roadway/Open Space	-	-	0.06
5408	669329.0	4280865.0	Roadway/Open Space	-	-	0.06
5409	669339.0	4280865.0	Roadway/Open Space	-	-	0.06
5410	669349.0	4280865.0	Roadway/Open Space	-	-	0.06
5411	669359.0	4280865.0	Roadway/Open Space	-	-	0.06
5412	669369.0	4280865.0	Roadway/Open Space	-	-	0.06
5413	669379.0	4280865.0	Roadway/Open Space	-	-	0.06
5414	669389.0	4280865.0	Roadway/Open Space	-	-	0.05
5415	669399.0	4280865.0	Roadway/Open Space	-	-	0.05
5416	669409.0	4280865.0	Roadway/Open Space	-	-	0.04
5417	669419.0	4280865.0	Roadway/Open Space	-	-	0.04
5418	669429.0	4280865.0	Roadway/Open Space	-	-	0.04
5419	669439.0	4280865.0	Roadway/Open Space	-	-	0.03
5420	669449.0	4280865.0	Roadway/Open Space	-	-	0.03
5421	669459.0	4280865.0	Roadway/Open Space	-	-	0.03
5422	669469.0	4280865.0	Roadway/Open Space	-	-	0.03
5423	669479.0	4280865.0	Roadway/Open Space	-	-	0.03
5424	669489.0	4280865.0	Roadway/Open Space	-	-	0.03
5425	669499.0	4280865.0	Roadway/Open Space	-	-	0.03
5426	669509.0	4280865.0	Roadway/Open Space	-	-	0.03
5427	669519.0	4280865.0	Roadway/Open Space	-	-	0.03
5428	669529.0	4280865.0	Roadway/Open Space	-	-	0.03
5429	669539.0	4280865.0	Roadway/Open Space	-	-	0.03
5430	669549.0	4280865.0	Roadway/Open Space	-	-	0.02
5431	669559.0	4280865.0	Roadway/Open Space	-	-	0.02
5432	669569.0	4280865.0	Roadway/Open Space	-	-	0.03
5433	669579.0	4280865.0	Roadway/Open Space	-	-	0.03
5434	669589.0	4280865.0	Roadway/Open Space	-	-	0.03
5435	669599.0	4280865.0	Roadway/Open Space	-	-	0.03
5436	669609.0	4280865.0	Roadway/Open Space	-	-	0.03
5437	668519.0	4280875.0	Residential	0.08	0.0003	0.01
5438	668529.0	4280875.0	Roadway/Open Space	-	-	0.01
5439	668539.0	4280875.0	Residential	0.08	0.0003	0.01
5440	668549.0	4280875.0	Residential	0.08	0.0003	0.01
5441	668559.0	4280875.0	Residential	0.09	0.0003	0.01
5442	668569.0	4280875.0	Residential	0.09	0.0003	0.01
5443	668579.0	4280875.0	Residential	0.09	0.0003	0.01
5444	668589.0	4280875.0	Residential	0.10	0.0004	0.01
5445	668599.0	4280875.0	Residential	0.10	0.0004	0.01
5446	668609.0	4280875.0	Residential	0.11	0.0004	0.01
5447	668619.0	4280875.0	Residential	0.12	0.0004	0.01
5448	668629.0	4280875.0	Residential	0.12	0.000	0.01
5449	668639.0	4280875.0	Residential	0.13	0.000	0.01
5450	668649.0	4280875.0	Roadway/Open Space	-	-	0.01
5451	668659.0	4280875.0	Residential	0.14	0.001	0.01
5452	668669.0	4280875.0	Residential	0.16	0.001	0.02
5453	668679.0	4280875.0	Residential	0.18	0.001	0.02
5454	668689.0	4280875.0	Residential	0.20	0.001	0.02
5455	668699.0	4280875.0	Residential	0.23	0.001	0.02
5456	668709.0	4280875.0	Roadway/Open Space	-	-	0.03
5457	668719.0	4280875.0	Roadway/Open Space	-	-	0.03
5458	668729.0	4280875.0	Roadway/Open Space	-	-	0.04
5459	668739.0	4280875.0	Roadway/Open Space	-	-	0.04
5460	668749.0	4280875.0	Roadway/Open Space	-	-	0.05
5461	668759.0	4280875.0	Roadway/Open Space	-	-	0.05
5462	668769.0	4280875.0	Roadway/Open Space	-	-	0.06
5463	668779.0	4280875.0	Roadway/Open Space	-	-	0.06
5464	668789.0	4280875.0	Roadway/Open Space	-	-	0.06
5465	668799.0	4280875.0	Roadway/Open Space	-	-	0.05
5466	668809.0	4280875.0	Roadway/Open Space	-	-	0.05
5467	668819.0	4280875.0	Roadway/Open Space	-	-	0.06
5468	668829.0	4280875.0	Roadway/Open Space	-	-	0.06
5469	668839.0	4280875.0	Roadway/Open Space	-	-	0.06
5470	668849.0	4280875.0	Roadway/Open Space	-	-	0.05
5471	668859.0	4280875.0	Roadway/Open Space	-	-	0.05
5472	668869.0	4280875.0	Roadway/Open Space	-	-	0.05
5473	668879.0	4280875.0	Roadway/Open Space	-	-	0.05
5474	668889.0	4280875.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5475	668899.0	4280875.0	Roadway/Open Space	-	-	0.06
5476	668909.0	4280875.0	Roadway/Open Space	-	-	0.06
5477	668919.0	4280875.0	Roadway/Open Space	-	-	0.07
5478	668929.0	4280875.0	Roadway/Open Space	-	-	0.08
5503	669179.0	4280875.0	Roadway/Open Space	-	-	0.09
5504	669189.0	4280875.0	Roadway/Open Space	-	-	0.08
5505	669199.0	4280875.0	Roadway/Open Space	-	-	0.08
5506	669209.0	4280875.0	Roadway/Open Space	-	-	0.08
5507	669219.0	4280875.0	Roadway/Open Space	-	-	0.07
5508	669299.0	4280875.0	Roadway/Open Space	-	-	0.06
5509	669309.0	4280875.0	Roadway/Open Space	-	-	0.06
5510	669319.0	4280875.0	Roadway/Open Space	-	-	0.06
5511	669329.0	4280875.0	Roadway/Open Space	-	-	0.06
5512	669339.0	4280875.0	Roadway/Open Space	-	-	0.06
5513	669349.0	4280875.0	Roadway/Open Space	-	-	0.06
5514	669359.0	4280875.0	Roadway/Open Space	-	-	0.06
5515	669369.0	4280875.0	Roadway/Open Space	-	-	0.06
5516	669379.0	4280875.0	Roadway/Open Space	-	-	0.05
5517	669389.0	4280875.0	Roadway/Open Space	-	-	0.05
5518	669399.0	4280875.0	Roadway/Open Space	-	-	0.05
5519	669409.0	4280875.0	Roadway/Open Space	-	-	0.04
5520	669419.0	4280875.0	Roadway/Open Space	-	-	0.04
5521	669429.0	4280875.0	Roadway/Open Space	-	-	0.04
5522	669439.0	4280875.0	Roadway/Open Space	-	-	0.03
5523	669449.0	4280875.0	Roadway/Open Space	-	-	0.03
5524	669459.0	4280875.0	Roadway/Open Space	-	-	0.03
5525	669469.0	4280875.0	Roadway/Open Space	-	-	0.03
5526	669479.0	4280875.0	Roadway/Open Space	-	-	0.03
5527	669489.0	4280875.0	Roadway/Open Space	-	-	0.03
5528	669499.0	4280875.0	Roadway/Open Space	-	-	0.03
5529	669509.0	4280875.0	Roadway/Open Space	-	-	0.03
5530	669519.0	4280875.0	Roadway/Open Space	-	-	0.03
5531	669529.0	4280875.0	Roadway/Open Space	-	-	0.03
5532	669539.0	4280875.0	Roadway/Open Space	-	-	0.03
5533	669549.0	4280875.0	Roadway/Open Space	-	-	0.02
5534	669559.0	4280875.0	Roadway/Open Space	-	-	0.02
5535	669569.0	4280875.0	Roadway/Open Space	-	-	0.03
5536	669579.0	4280875.0	Roadway/Open Space	-	-	0.03
5537	669589.0	4280875.0	Roadway/Open Space	-	-	0.03
5538	669599.0	4280875.0	Roadway/Open Space	-	-	0.03
5539	669609.0	4280875.0	Roadway/Open Space	-	-	0.03
5540	668519.0	4280885.0	Residential	0.08	0.0003	0.01
5541	668529.0	4280885.0	Residential	0.08	0.0003	0.01
5542	668539.0	4280885.0	Roadway/Open Space	-	-	0.01
5543	668549.0	4280885.0	Residential	0.08	0.0003	0.01
5544	668559.0	4280885.0	Residential	0.09	0.0003	0.01
5545	668569.0	4280885.0	Residential	0.09	0.0003	0.01
5546	668579.0	4280885.0	Residential	0.09	0.0003	0.01
5547	668589.0	4280885.0	Residential	0.10	0.0004	0.01
5548	668599.0	4280885.0	Residential	0.10	0.0004	0.01
5549	668609.0	4280885.0	Residential	0.11	0.0004	0.01
5550	668619.0	4280885.0	Residential	0.12	0.0004	0.01
5551	668629.0	4280885.0	Residential	0.12	0.000	0.01
5552	668639.0	4280885.0	Residential	0.13	0.000	0.01
5553	668649.0	4280885.0	Roadway/Open Space	-	-	0.01
5554	668659.0	4280885.0	Residential	0.15	0.001	0.01
5555	668669.0	4280885.0	Residential	0.17	0.001	0.02
5556	668679.0	4280885.0	Residential	0.19	0.001	0.02
5557	668689.0	4280885.0	Residential	0.22	0.001	0.02
5558	668699.0	4280885.0	Residential	0.25	0.001	0.03
5559	668709.0	4280885.0	Roadway/Open Space	-	-	0.03
5560	668719.0	4280885.0	Roadway/Open Space	-	-	0.04
5561	668729.0	4280885.0	Roadway/Open Space	-	-	0.04
5562	668739.0	4280885.0	Roadway/Open Space	-	-	0.05
5563	668749.0	4280885.0	Roadway/Open Space	-	-	0.05
5564	668759.0	4280885.0	Roadway/Open Space	-	-	0.06
5565	668769.0	4280885.0	Roadway/Open Space	-	-	0.06
5566	668779.0	4280885.0	Roadway/Open Space	-	-	0.06
5567	668789.0	4280885.0	Roadway/Open Space	-	-	0.05
5568	668799.0	4280885.0	Roadway/Open Space	-	-	0.06
5569	668809.0	4280885.0	Roadway/Open Space	-	-	0.06
5570	668819.0	4280885.0	Roadway/Open Space	-	-	0.06
5571	668829.0	4280885.0	Roadway/Open Space	-	-	0.06
5572	668839.0	4280885.0	Roadway/Open Space	-	-	0.06
5573	668849.0	4280885.0	Roadway/Open Space	-	-	0.05
5574	668859.0	4280885.0	Roadway/Open Space	-	-	0.05
5575	668869.0	4280885.0	Roadway/Open Space	-	-	0.05
5576	668879.0	4280885.0	Roadway/Open Space	-	-	0.06
5577	668889.0	4280885.0	Roadway/Open Space	-	-	0.06
5578	668899.0	4280885.0	Roadway/Open Space	-	-	0.06
5579	668909.0	4280885.0	Roadway/Open Space	-	-	0.07
5580	668919.0	4280885.0	Roadway/Open Space	-	-	0.07
5605	669169.0	4280885.0	Roadway/Open Space	-	-	0.10
5606	669179.0	4280885.0	Roadway/Open Space	-	-	0.09

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5607	669189.0	4280885.0	Roadway/Open Space	-	-	0.09
5608	669199.0	4280885.0	Roadway/Open Space	-	-	0.08
5609	669209.0	4280885.0	Roadway/Open Space	-	-	0.07
5610	669299.0	4280885.0	Roadway/Open Space	-	-	0.06
5611	669309.0	4280885.0	Roadway/Open Space	-	-	0.06
5612	669319.0	4280885.0	Roadway/Open Space	-	-	0.06
5613	669329.0	4280885.0	Roadway/Open Space	-	-	0.06
5614	669339.0	4280885.0	Roadway/Open Space	-	-	0.06
5615	669349.0	4280885.0	Roadway/Open Space	-	-	0.06
5616	669359.0	4280885.0	Roadway/Open Space	-	-	0.06
5617	669369.0	4280885.0	Roadway/Open Space	-	-	0.06
5618	669379.0	4280885.0	Roadway/Open Space	-	-	0.05
5619	669389.0	4280885.0	Roadway/Open Space	-	-	0.05
5620	669399.0	4280885.0	Roadway/Open Space	-	-	0.05
5621	669409.0	4280885.0	Roadway/Open Space	-	-	0.05
5622	669419.0	4280885.0	Roadway/Open Space	-	-	0.04
5623	669429.0	4280885.0	Roadway/Open Space	-	-	0.04
5624	669439.0	4280885.0	Roadway/Open Space	-	-	0.03
5625	669449.0	4280885.0	Roadway/Open Space	-	-	0.03
5626	669459.0	4280885.0	Roadway/Open Space	-	-	0.03
5627	669469.0	4280885.0	Roadway/Open Space	-	-	0.03
5628	669479.0	4280885.0	Roadway/Open Space	-	-	0.03
5629	669489.0	4280885.0	Roadway/Open Space	-	-	0.03
5630	669499.0	4280885.0	Roadway/Open Space	-	-	0.03
5631	669509.0	4280885.0	Roadway/Open Space	-	-	0.03
5632	669519.0	4280885.0	Roadway/Open Space	-	-	0.03
5633	669529.0	4280885.0	Roadway/Open Space	-	-	0.03
5634	669539.0	4280885.0	Roadway/Open Space	-	-	0.03
5635	669549.0	4280885.0	Roadway/Open Space	-	-	0.03
5636	669559.0	4280885.0	Roadway/Open Space	-	-	0.02
5637	669569.0	4280885.0	Roadway/Open Space	-	-	0.03
5638	669579.0	4280885.0	Roadway/Open Space	-	-	0.03
5639	669589.0	4280885.0	Roadway/Open Space	-	-	0.03
5640	669599.0	4280885.0	Roadway/Open Space	-	-	0.03
5641	669609.0	4280885.0	Roadway/Open Space	-	-	0.03
5642	668519.0	4280895.0	Residential	0.08	0.0003	0.01
5643	668529.0	4280895.0	Residential	0.08	0.0003	0.01
5644	668539.0	4280895.0	Roadway/Open Space	-	-	0.01
5645	668549.0	4280895.0	Residential	0.08	0.0003	0.01
5646	668559.0	4280895.0	Residential	0.09	0.0003	0.01
5647	668569.0	4280895.0	Residential	0.09	0.0003	0.01
5648	668579.0	4280895.0	Residential	0.09	0.0003	0.01
5649	668589.0	4280895.0	Residential	0.10	0.0004	0.01
5650	668599.0	4280895.0	Residential	0.10	0.0004	0.01
5651	668609.0	4280895.0	Residential	0.11	0.0004	0.01
5652	668619.0	4280895.0	Residential	0.12	0.0004	0.01
5653	668629.0	4280895.0	Residential	0.13	0.000	0.01
5654	668639.0	4280895.0	Residential	0.13	0.000	0.01
5655	668649.0	4280895.0	Roadway/Open Space	-	-	0.01
5656	668659.0	4280895.0	Residential	0.15	0.001	0.01
5657	668669.0	4280895.0	Residential	0.17	0.001	0.02
5658	668679.0	4280895.0	Residential	0.20	0.001	0.02
5659	668689.0	4280895.0	Residential	0.23	0.001	0.02
5660	668699.0	4280895.0	Residential	0.27	0.001	0.03
5661	668709.0	4280895.0	Roadway/Open Space	-	-	0.03
5662	668719.0	4280895.0	Roadway/Open Space	-	-	0.04
5663	668729.0	4280895.0	Roadway/Open Space	-	-	0.04
5664	668739.0	4280895.0	Roadway/Open Space	-	-	0.05
5665	668749.0	4280895.0	Roadway/Open Space	-	-	0.05
5666	668759.0	4280895.0	Roadway/Open Space	-	-	0.06
5667	668769.0	4280895.0	Roadway/Open Space	-	-	0.06
5668	668779.0	4280895.0	Roadway/Open Space	-	-	0.05
5669	668789.0	4280895.0	Roadway/Open Space	-	-	0.05
5670	668799.0	4280895.0	Roadway/Open Space	-	-	0.06
5671	668809.0	4280895.0	Roadway/Open Space	-	-	0.06
5672	668819.0	4280895.0	Roadway/Open Space	-	-	0.06
5673	668829.0	4280895.0	Roadway/Open Space	-	-	0.06
5674	668839.0	4280895.0	Roadway/Open Space	-	-	0.06
5675	668849.0	4280895.0	Roadway/Open Space	-	-	0.05
5676	668859.0	4280895.0	Roadway/Open Space	-	-	0.06
5677	668869.0	4280895.0	Roadway/Open Space	-	-	0.05
5678	668879.0	4280895.0	Roadway/Open Space	-	-	0.06
5679	668889.0	4280895.0	Roadway/Open Space	-	-	0.06
5680	668899.0	4280895.0	Roadway/Open Space	-	-	0.06
5681	668909.0	4280895.0	Roadway/Open Space	-	-	0.07
5682	668919.0	4280895.0	Roadway/Open Space	-	-	0.08
5707	669169.0	4280895.0	Roadway/Open Space	-	-	0.10
5708	669179.0	4280895.0	Roadway/Open Space	-	-	0.09
5709	669189.0	4280895.0	Roadway/Open Space	-	-	0.09
5710	669199.0	4280895.0	Roadway/Open Space	-	-	0.08
5711	669209.0	4280895.0	Roadway/Open Space	-	-	0.07
5712	669299.0	4280895.0	Roadway/Open Space	-	-	0.06
5713	669309.0	4280895.0	Roadway/Open Space	-	-	0.06
5714	669319.0	4280895.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5715	669329.0	4280895.0	Roadway/Open Space	-	-	0.06
5716	669339.0	4280895.0	Roadway/Open Space	-	-	0.06
5717	669349.0	4280895.0	Roadway/Open Space	-	-	0.06
5718	669359.0	4280895.0	Roadway/Open Space	-	-	0.06
5719	669369.0	4280895.0	Roadway/Open Space	-	-	0.06
5720	669379.0	4280895.0	Roadway/Open Space	-	-	0.05
5721	669389.0	4280895.0	Roadway/Open Space	-	-	0.05
5722	669399.0	4280895.0	Roadway/Open Space	-	-	0.05
5723	669409.0	4280895.0	Roadway/Open Space	-	-	0.05
5724	669419.0	4280895.0	Roadway/Open Space	-	-	0.04
5725	669429.0	4280895.0	Roadway/Open Space	-	-	0.04
5726	669439.0	4280895.0	Roadway/Open Space	-	-	0.03
5727	669449.0	4280895.0	Roadway/Open Space	-	-	0.03
5728	669459.0	4280895.0	Roadway/Open Space	-	-	0.03
5729	669469.0	4280895.0	Roadway/Open Space	-	-	0.03
5730	669479.0	4280895.0	Roadway/Open Space	-	-	0.03
5731	669489.0	4280895.0	Roadway/Open Space	-	-	0.03
5732	669499.0	4280895.0	Roadway/Open Space	-	-	0.03
5733	669509.0	4280895.0	Roadway/Open Space	-	-	0.03
5734	669519.0	4280895.0	Roadway/Open Space	-	-	0.03
5735	669529.0	4280895.0	Roadway/Open Space	-	-	0.03
5736	669539.0	4280895.0	Roadway/Open Space	-	-	0.03
5737	669549.0	4280895.0	Roadway/Open Space	-	-	0.03
5738	669559.0	4280895.0	Roadway/Open Space	-	-	0.02
5739	669569.0	4280895.0	Roadway/Open Space	-	-	0.03
5740	669579.0	4280895.0	Roadway/Open Space	-	-	0.03
5741	669589.0	4280895.0	Roadway/Open Space	-	-	0.03
5742	669599.0	4280895.0	Roadway/Open Space	-	-	0.03
5743	669609.0	4280895.0	Roadway/Open Space	-	-	0.03
5744	668519.0	4280905.0	Residential	0.07	0.0003	0.01
5745	668529.0	4280905.0	Residential	0.08	0.0003	0.01
5746	668539.0	4280905.0	Residential	0.08	0.0003	0.01
5747	668549.0	4280905.0	Roadway/Open Space	-	-	0.01
5748	668559.0	4280905.0	Residential	0.09	0.0003	0.01
5749	668569.0	4280905.0	Residential	0.09	0.0003	0.01
5750	668579.0	4280905.0	Residential	0.09	0.0003	0.01
5751	668589.0	4280905.0	Residential	0.10	0.0004	0.01
5752	668599.0	4280905.0	Residential	0.11	0.0004	0.01
5753	668609.0	4280905.0	Residential	0.11	0.0004	0.01
5754	668619.0	4280905.0	Residential	0.12	0.0004	0.01
5755	668629.0	4280905.0	Residential	0.12	0.000	0.01
5756	668639.0	4280905.0	Residential	0.13	0.000	0.01
5757	668649.0	4280905.0	Roadway/Open Space	-	-	0.01
5758	668659.0	4280905.0	Residential	0.16	0.001	0.02
5759	668669.0	4280905.0	Residential	0.18	0.001	0.02
5760	668679.0	4280905.0	Residential	0.21	0.001	0.02
5761	668689.0	4280905.0	Residential	0.25	0.001	0.03
5762	668699.0	4280905.0	Residential	0.29	0.001	0.03
5763	668709.0	4280905.0	Roadway/Open Space	-	-	0.04
5764	668719.0	4280905.0	Roadway/Open Space	-	-	0.04
5765	668729.0	4280905.0	Roadway/Open Space	-	-	0.04
5766	668739.0	4280905.0	Roadway/Open Space	-	-	0.05
5767	668749.0	4280905.0	Roadway/Open Space	-	-	0.05
5768	668759.0	4280905.0	Roadway/Open Space	-	-	0.06
5769	668769.0	4280905.0	Roadway/Open Space	-	-	0.06
5770	668779.0	4280905.0	Roadway/Open Space	-	-	0.05
5771	668789.0	4280905.0	Roadway/Open Space	-	-	0.05
5772	668799.0	4280905.0	Roadway/Open Space	-	-	0.06
5773	668809.0	4280905.0	Roadway/Open Space	-	-	0.06
5774	668819.0	4280905.0	Roadway/Open Space	-	-	0.06
5775	668829.0	4280905.0	Roadway/Open Space	-	-	0.06
5776	668839.0	4280905.0	Roadway/Open Space	-	-	0.06
5777	668849.0	4280905.0	Roadway/Open Space	-	-	0.06
5778	668859.0	4280905.0	Roadway/Open Space	-	-	0.06
5779	668869.0	4280905.0	Roadway/Open Space	-	-	0.06
5780	668879.0	4280905.0	Roadway/Open Space	-	-	0.06
5781	668889.0	4280905.0	Roadway/Open Space	-	-	0.06
5782	668899.0	4280905.0	Roadway/Open Space	-	-	0.07
5783	668909.0	4280905.0	Roadway/Open Space	-	-	0.07
5784	668919.0	4280905.0	Roadway/Open Space	-	-	0.08
5808	669159.0	4280905.0	Roadway/Open Space	-	-	0.11
5809	669169.0	4280905.0	Roadway/Open Space	-	-	0.10
5810	669179.0	4280905.0	Roadway/Open Space	-	-	0.09
5811	669189.0	4280905.0	Roadway/Open Space	-	-	0.08
5812	669199.0	4280905.0	Roadway/Open Space	-	-	0.08
5813	669299.0	4280905.0	Roadway/Open Space	-	-	0.06
5814	669309.0	4280905.0	Roadway/Open Space	-	-	0.06
5815	669319.0	4280905.0	Roadway/Open Space	-	-	0.06
5816	669329.0	4280905.0	Roadway/Open Space	-	-	0.06
5817	669339.0	4280905.0	Roadway/Open Space	-	-	0.06
5818	669349.0	4280905.0	Roadway/Open Space	-	-	0.06
5819	669359.0	4280905.0	Roadway/Open Space	-	-	0.06
5820	669369.0	4280905.0	Roadway/Open Space	-	-	0.05
5821	669379.0	4280905.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5822	669389.0	4280905.0	Roadway/Open Space	-	-	0.05
5823	669399.0	4280905.0	Roadway/Open Space	-	-	0.05
5824	669409.0	4280905.0	Roadway/Open Space	-	-	0.05
5825	669419.0	4280905.0	Roadway/Open Space	-	-	0.04
5826	669429.0	4280905.0	Roadway/Open Space	-	-	0.04
5827	669439.0	4280905.0	Roadway/Open Space	-	-	0.03
5828	669449.0	4280905.0	Roadway/Open Space	-	-	0.03
5829	669459.0	4280905.0	Roadway/Open Space	-	-	0.03
5830	669469.0	4280905.0	Roadway/Open Space	-	-	0.03
5831	669479.0	4280905.0	Roadway/Open Space	-	-	0.03
5832	669489.0	4280905.0	Roadway/Open Space	-	-	0.03
5833	669499.0	4280905.0	Roadway/Open Space	-	-	0.03
5834	669509.0	4280905.0	Roadway/Open Space	-	-	0.03
5835	669519.0	4280905.0	Roadway/Open Space	-	-	0.03
5836	669529.0	4280905.0	Roadway/Open Space	-	-	0.03
5837	669539.0	4280905.0	Roadway/Open Space	-	-	0.03
5838	669549.0	4280905.0	Roadway/Open Space	-	-	0.03
5839	669559.0	4280905.0	Roadway/Open Space	-	-	0.02
5840	669569.0	4280905.0	Roadway/Open Space	-	-	0.03
5841	669579.0	4280905.0	Roadway/Open Space	-	-	0.03
5842	669589.0	4280905.0	Roadway/Open Space	-	-	0.03
5843	669599.0	4280905.0	Roadway/Open Space	-	-	0.03
5844	668509.0	4280915.0	Residential	0.07	0.0003	0.01
5845	668519.0	4280915.0	Residential	0.07	0.0003	0.01
5846	668529.0	4280915.0	Residential	0.07	0.0003	0.01
5847	668539.0	4280915.0	Residential	0.08	0.0003	0.01
5848	668549.0	4280915.0	Roadway/Open Space	-	-	0.01
5849	668559.0	4280915.0	Residential	0.09	0.0003	0.01
5850	668569.0	4280915.0	Residential	0.09	0.0003	0.01
5851	668579.0	4280915.0	Residential	0.09	0.0003	0.01
5852	668589.0	4280915.0	Residential	0.10	0.0004	0.01
5853	668599.0	4280915.0	Residential	0.10	0.0004	0.01
5854	668609.0	4280915.0	Residential	0.11	0.0004	0.01
5855	668619.0	4280915.0	Residential	0.12	0.0004	0.01
5856	668629.0	4280915.0	Residential	0.13	0.000	0.01
5857	668639.0	4280915.0	Residential	0.14	0.000	0.01
5858	668649.0	4280915.0	Roadway/Open Space	-	-	0.01
5859	668659.0	4280915.0	Residential	0.17	0.001	0.02
5860	668669.0	4280915.0	Residential	0.19	0.001	0.02
5861	668679.0	4280915.0	Residential	0.22	0.001	0.02
5862	668689.0	4280915.0	Residential	0.26	0.001	0.03
5863	668699.0	4280915.0	Residential	0.31	0.001	0.03
5864	668709.0	4280915.0	Roadway/Open Space	-	-	0.04
5865	668719.0	4280915.0	Roadway/Open Space	-	-	0.04
5866	668729.0	4280915.0	Roadway/Open Space	-	-	0.05
5867	668739.0	4280915.0	Roadway/Open Space	-	-	0.05
5868	668749.0	4280915.0	Roadway/Open Space	-	-	0.05
5869	668759.0	4280915.0	Roadway/Open Space	-	-	0.05
5870	668769.0	4280915.0	Roadway/Open Space	-	-	0.05
5871	668779.0	4280915.0	Roadway/Open Space	-	-	0.05
5872	668789.0	4280915.0	Roadway/Open Space	-	-	0.05
5873	668799.0	4280915.0	Roadway/Open Space	-	-	0.05
5874	668809.0	4280915.0	Roadway/Open Space	-	-	0.05
5875	668819.0	4280915.0	Roadway/Open Space	-	-	0.06
5876	668829.0	4280915.0	Roadway/Open Space	-	-	0.06
5877	668839.0	4280915.0	Roadway/Open Space	-	-	0.06
5878	668849.0	4280915.0	Roadway/Open Space	-	-	0.06
5879	668859.0	4280915.0	Roadway/Open Space	-	-	0.06
5880	668869.0	4280915.0	Roadway/Open Space	-	-	0.06
5881	668879.0	4280915.0	Roadway/Open Space	-	-	0.06
5882	668889.0	4280915.0	Roadway/Open Space	-	-	0.06
5883	668899.0	4280915.0	Roadway/Open Space	-	-	0.07
5884	668909.0	4280915.0	Roadway/Open Space	-	-	0.08
5885	668919.0	4280915.0	Roadway/Open Space	-	-	0.08
5908	669149.0	4280915.0	Roadway/Open Space	-	-	0.13
5909	669159.0	4280915.0	Roadway/Open Space	-	-	0.11
5910	669169.0	4280915.0	Roadway/Open Space	-	-	0.10
5911	669179.0	4280915.0	Roadway/Open Space	-	-	0.09
5912	669189.0	4280915.0	Roadway/Open Space	-	-	0.08
5913	669299.0	4280915.0	Roadway/Open Space	-	-	0.05
5914	669309.0	4280915.0	Roadway/Open Space	-	-	0.06
5915	669319.0	4280915.0	Roadway/Open Space	-	-	0.06
5916	669329.0	4280915.0	Roadway/Open Space	-	-	0.06
5917	669339.0	4280915.0	Roadway/Open Space	-	-	0.06
5918	669349.0	4280915.0	Roadway/Open Space	-	-	0.05
5919	669359.0	4280915.0	Roadway/Open Space	-	-	0.05
5920	669369.0	4280915.0	Roadway/Open Space	-	-	0.05
5921	669379.0	4280915.0	Roadway/Open Space	-	-	0.05
5922	669389.0	4280915.0	Roadway/Open Space	-	-	0.05
5923	669399.0	4280915.0	Roadway/Open Space	-	-	0.05
5924	669409.0	4280915.0	Roadway/Open Space	-	-	0.05
5925	669419.0	4280915.0	Roadway/Open Space	-	-	0.04
5926	669429.0	4280915.0	Roadway/Open Space	-	-	0.04
5927	669439.0	4280915.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
5928	669449.0	4280915.0	Roadway/Open Space	-	-	0.03
5929	669459.0	4280915.0	Roadway/Open Space	-	-	0.03
5930	669469.0	4280915.0	Roadway/Open Space	-	-	0.03
5931	669479.0	4280915.0	Roadway/Open Space	-	-	0.03
5932	669489.0	4280915.0	Roadway/Open Space	-	-	0.03
5933	669499.0	4280915.0	Roadway/Open Space	-	-	0.03
5934	669509.0	4280915.0	Roadway/Open Space	-	-	0.03
5935	669519.0	4280915.0	Roadway/Open Space	-	-	0.03
5936	669529.0	4280915.0	Roadway/Open Space	-	-	0.03
5937	669539.0	4280915.0	Roadway/Open Space	-	-	0.03
5938	669549.0	4280915.0	Roadway/Open Space	-	-	0.03
5939	669559.0	4280915.0	Roadway/Open Space	-	-	0.03
5940	669569.0	4280915.0	Roadway/Open Space	-	-	0.03
5941	669579.0	4280915.0	Roadway/Open Space	-	-	0.03
5942	669589.0	4280915.0	Roadway/Open Space	-	-	0.03
5943	669599.0	4280915.0	Roadway/Open Space	-	-	0.03
5944	668509.0	4280925.0	Residential	0.07	0.0002	0.01
5945	668519.0	4280925.0	Residential	0.07	0.0003	0.01
5946	668529.0	4280925.0	Residential	0.07	0.0003	0.01
5947	668539.0	4280925.0	Residential	0.08	0.0003	0.01
5948	668549.0	4280925.0	Roadway/Open Space	-	-	0.01
5949	668559.0	4280925.0	Residential	0.09	0.0003	0.01
5950	668569.0	4280925.0	Residential	0.09	0.0003	0.01
5951	668579.0	4280925.0	Residential	0.09	0.0003	0.01
5952	668589.0	4280925.0	Residential	0.10	0.0003	0.01
5953	668599.0	4280925.0	Residential	0.10	0.0004	0.01
5954	668609.0	4280925.0	Residential	0.11	0.0004	0.01
5955	668619.0	4280925.0	Residential	0.12	0.000	0.01
5956	668629.0	4280925.0	Residential	0.13	0.000	0.01
5957	668639.0	4280925.0	Residential	0.14	0.001	0.01
5958	668649.0	4280925.0	Roadway/Open Space	-	-	0.02
5959	668659.0	4280925.0	Residential	0.18	0.001	0.02
5960	668669.0	4280925.0	Residential	0.20	0.001	0.02
5961	668679.0	4280925.0	Residential	0.24	0.001	0.02
5962	668689.0	4280925.0	Residential	0.28	0.001	0.03
5963	668699.0	4280925.0	Roadway/Open Space	-	-	0.03
5964	668709.0	4280925.0	Roadway/Open Space	-	-	0.04
5965	668719.0	4280925.0	Roadway/Open Space	-	-	0.04
5966	668729.0	4280925.0	Roadway/Open Space	-	-	0.05
5967	668739.0	4280925.0	Roadway/Open Space	-	-	0.05
5968	668749.0	4280925.0	Roadway/Open Space	-	-	0.05
5969	668759.0	4280925.0	Roadway/Open Space	-	-	0.04
5970	668769.0	4280925.0	Roadway/Open Space	-	-	0.05
5971	668779.0	4280925.0	Roadway/Open Space	-	-	0.05
5972	668789.0	4280925.0	Roadway/Open Space	-	-	0.05
5973	668799.0	4280925.0	Roadway/Open Space	-	-	0.05
5974	668809.0	4280925.0	Roadway/Open Space	-	-	0.05
5975	668819.0	4280925.0	Roadway/Open Space	-	-	0.05
5976	668829.0	4280925.0	Roadway/Open Space	-	-	0.05
5977	668839.0	4280925.0	Roadway/Open Space	-	-	0.06
5978	668849.0	4280925.0	Roadway/Open Space	-	-	0.06
5979	668859.0	4280925.0	Roadway/Open Space	-	-	0.06
5980	668869.0	4280925.0	Roadway/Open Space	-	-	0.06
5981	668879.0	4280925.0	Roadway/Open Space	-	-	0.06
5982	668889.0	4280925.0	Roadway/Open Space	-	-	0.07
5983	668899.0	4280925.0	Roadway/Open Space	-	-	0.07
5984	668909.0	4280925.0	Roadway/Open Space	-	-	0.08
6007	669139.0	4280925.0	Roadway/Open Space	-	-	0.14
6008	669149.0	4280925.0	Roadway/Open Space	-	-	0.13
6009	669159.0	4280925.0	Roadway/Open Space	-	-	0.12
6010	669169.0	4280925.0	Roadway/Open Space	-	-	0.10
6011	669179.0	4280925.0	Roadway/Open Space	-	-	0.08
6012	669299.0	4280925.0	Roadway/Open Space	-	-	0.05
6013	669309.0	4280925.0	Roadway/Open Space	-	-	0.05
6014	669319.0	4280925.0	Roadway/Open Space	-	-	0.05
6015	669329.0	4280925.0	Roadway/Open Space	-	-	0.05
6016	669339.0	4280925.0	Roadway/Open Space	-	-	0.05
6017	669349.0	4280925.0	Roadway/Open Space	-	-	0.05
6018	669359.0	4280925.0	Roadway/Open Space	-	-	0.05
6019	669369.0	4280925.0	Roadway/Open Space	-	-	0.05
6020	669379.0	4280925.0	Roadway/Open Space	-	-	0.05
6021	669389.0	4280925.0	Roadway/Open Space	-	-	0.05
6022	669399.0	4280925.0	Roadway/Open Space	-	-	0.05
6023	669409.0	4280925.0	Roadway/Open Space	-	-	0.05
6024	669419.0	4280925.0	Roadway/Open Space	-	-	0.05
6025	669429.0	4280925.0	Roadway/Open Space	-	-	0.04
6026	669439.0	4280925.0	Roadway/Open Space	-	-	0.04
6027	669449.0	4280925.0	Roadway/Open Space	-	-	0.03
6028	669459.0	4280925.0	Roadway/Open Space	-	-	0.03
6029	669469.0	4280925.0	Roadway/Open Space	-	-	0.03
6030	669479.0	4280925.0	Roadway/Open Space	-	-	0.03
6031	669489.0	4280925.0	Roadway/Open Space	-	-	0.03
6032	669499.0	4280925.0	Roadway/Open Space	-	-	0.03
6033	669509.0	4280925.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6034	669519.0	4280925.0	Roadway/Open Space	-	-	0.03
6035	669529.0	4280925.0	Roadway/Open Space	-	-	0.03
6036	669539.0	4280925.0	Roadway/Open Space	-	-	0.03
6037	669549.0	4280925.0	Roadway/Open Space	-	-	0.03
6038	669559.0	4280925.0	Roadway/Open Space	-	-	0.03
6039	669569.0	4280925.0	Roadway/Open Space	-	-	0.02
6040	669579.0	4280925.0	Roadway/Open Space	-	-	0.03
6041	669589.0	4280925.0	Roadway/Open Space	-	-	0.03
6042	668509.0	4280935.0	Residential	0.07	0.0002	0.01
6043	668519.0	4280935.0	Residential	0.07	0.0003	0.01
6044	668529.0	4280935.0	Residential	0.07	0.0003	0.01
6045	668539.0	4280935.0	Residential	0.08	0.0003	0.01
6046	668549.0	4280935.0	Roadway/Open Space	-	-	0.01
6047	668559.0	4280935.0	Residential	0.08	0.0003	0.01
6048	668569.0	4280935.0	Residential	0.09	0.0003	0.01
6049	668579.0	4280935.0	Residential	0.09	0.0003	0.01
6050	668589.0	4280935.0	Residential	0.10	0.0004	0.01
6051	668599.0	4280935.0	Residential	0.11	0.0004	0.01
6052	668609.0	4280935.0	Residential	0.12	0.000	0.01
6053	668619.0	4280935.0	Residential	0.13	0.000	0.01
6054	668629.0	4280935.0	Residential	0.14	0.001	0.01
6055	668639.0	4280935.0	Residential	0.15	0.001	0.01
6056	668649.0	4280935.0	Roadway/Open Space	-	-	0.02
6057	668659.0	4280935.0	Residential	0.19	0.001	0.02
6058	668669.0	4280935.0	Residential	0.22	0.001	0.02
6059	668679.0	4280935.0	Residential	0.25	0.001	0.03
6060	668689.0	4280935.0	Residential	0.29	0.001	0.03
6061	668699.0	4280935.0	Roadway/Open Space	-	-	0.04
6062	668709.0	4280935.0	Roadway/Open Space	-	-	0.04
6063	668719.0	4280935.0	Roadway/Open Space	-	-	0.04
6064	668729.0	4280935.0	Roadway/Open Space	-	-	0.04
6065	668739.0	4280935.0	Roadway/Open Space	-	-	0.04
6066	668749.0	4280935.0	Roadway/Open Space	-	-	0.04
6067	668759.0	4280935.0	Roadway/Open Space	-	-	0.04
6068	668769.0	4280935.0	Roadway/Open Space	-	-	0.04
6069	668779.0	4280935.0	Roadway/Open Space	-	-	0.05
6070	668789.0	4280935.0	Roadway/Open Space	-	-	0.05
6071	668799.0	4280935.0	Roadway/Open Space	-	-	0.05
6072	668809.0	4280935.0	Roadway/Open Space	-	-	0.05
6073	668819.0	4280935.0	Roadway/Open Space	-	-	0.05
6074	668829.0	4280935.0	Roadway/Open Space	-	-	0.05
6075	668839.0	4280935.0	Roadway/Open Space	-	-	0.05
6076	668849.0	4280935.0	Roadway/Open Space	-	-	0.06
6077	668859.0	4280935.0	Roadway/Open Space	-	-	0.06
6078	668869.0	4280935.0	Roadway/Open Space	-	-	0.07
6079	668879.0	4280935.0	Roadway/Open Space	-	-	0.07
6080	668889.0	4280935.0	Roadway/Open Space	-	-	0.07
6081	668899.0	4280935.0	Roadway/Open Space	-	-	0.08
6082	668909.0	4280935.0	Roadway/Open Space	-	-	0.08
6103	669119.0	4280935.0	Roadway/Open Space	-	-	0.16
6104	669129.0	4280935.0	Roadway/Open Space	-	-	0.14
6105	669139.0	4280935.0	Roadway/Open Space	-	-	0.15
6106	669149.0	4280935.0	Roadway/Open Space	-	-	0.13
6107	669159.0	4280935.0	Roadway/Open Space	-	-	0.12
6108	669169.0	4280935.0	Roadway/Open Space	-	-	0.10
6109	669299.0	4280935.0	Roadway/Open Space	-	-	0.05
6110	669309.0	4280935.0	Roadway/Open Space	-	-	0.05
6111	669319.0	4280935.0	Roadway/Open Space	-	-	0.05
6112	669329.0	4280935.0	Roadway/Open Space	-	-	0.05
6113	669339.0	4280935.0	Roadway/Open Space	-	-	0.05
6114	669349.0	4280935.0	Roadway/Open Space	-	-	0.05
6115	669359.0	4280935.0	Roadway/Open Space	-	-	0.05
6116	669369.0	4280935.0	Roadway/Open Space	-	-	0.05
6117	669379.0	4280935.0	Roadway/Open Space	-	-	0.05
6118	669389.0	4280935.0	Roadway/Open Space	-	-	0.05
6119	669399.0	4280935.0	Roadway/Open Space	-	-	0.05
6120	669409.0	4280935.0	Roadway/Open Space	-	-	0.05
6121	669419.0	4280935.0	Roadway/Open Space	-	-	0.05
6122	669429.0	4280935.0	Roadway/Open Space	-	-	0.04
6123	669439.0	4280935.0	Roadway/Open Space	-	-	0.04
6124	669449.0	4280935.0	Roadway/Open Space	-	-	0.03
6125	669459.0	4280935.0	Roadway/Open Space	-	-	0.03
6126	669469.0	4280935.0	Roadway/Open Space	-	-	0.03
6127	669479.0	4280935.0	Roadway/Open Space	-	-	0.03
6128	669489.0	4280935.0	Roadway/Open Space	-	-	0.03
6129	669499.0	4280935.0	Roadway/Open Space	-	-	0.03
6130	669509.0	4280935.0	Roadway/Open Space	-	-	0.03
6131	669519.0	4280935.0	Roadway/Open Space	-	-	0.03
6132	669529.0	4280935.0	Roadway/Open Space	-	-	0.03
6133	669539.0	4280935.0	Roadway/Open Space	-	-	0.03
6134	669549.0	4280935.0	Roadway/Open Space	-	-	0.03
6135	669559.0	4280935.0	Roadway/Open Space	-	-	0.03
6136	669569.0	4280935.0	Roadway/Open Space	-	-	0.02
6137	669579.0	4280935.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6138	669589.0	4280935.0	Roadway/Open Space	-	-	0.03
6139	668509.0	4280945.0	Residential	0.07	0.0002	0.01
6140	668519.0	4280945.0	Residential	0.07	0.0003	0.01
6141	668529.0	4280945.0	Residential	0.07	0.0003	0.01
6142	668539.0	4280945.0	Residential	0.08	0.0003	0.01
6143	668549.0	4280945.0	Roadway/Open Space	-	-	0.01
6144	668559.0	4280945.0	Residential	0.08	0.0003	0.01
6145	668569.0	4280945.0	Residential	0.09	0.0003	0.01
6146	668579.0	4280945.0	Residential	0.10	0.0003	0.01
6147	668589.0	4280945.0	Roadway/Open Space	-	-	0.01
6148	668599.0	4280945.0	Roadway/Open Space	-	-	0.01
6149	668609.0	4280945.0	Roadway/Open Space	-	-	0.01
6150	668619.0	4280945.0	Roadway/Open Space	-	-	0.02
6151	668629.0	4280945.0	Roadway/Open Space	-	-	0.02
6152	668639.0	4280945.0	Roadway/Open Space	-	-	0.02
6153	668649.0	4280945.0	Residential	0.19	0.001	0.02
6154	668659.0	4280945.0	Residential	0.21	0.001	0.02
6155	668669.0	4280945.0	Residential	0.24	0.001	0.03
6156	668679.0	4280945.0	Residential	0.28	0.001	0.03
6157	668689.0	4280945.0	Residential	0.32	0.001	0.03
6158	668699.0	4280945.0	Roadway/Open Space	-	-	0.04
6159	668709.0	4280945.0	Roadway/Open Space	-	-	0.04
6160	668719.0	4280945.0	Roadway/Open Space	-	-	0.04
6161	668729.0	4280945.0	Roadway/Open Space	-	-	0.04
6162	668739.0	4280945.0	Roadway/Open Space	-	-	0.03
6163	668749.0	4280945.0	Roadway/Open Space	-	-	0.04
6164	668759.0	4280945.0	Roadway/Open Space	-	-	0.04
6165	668769.0	4280945.0	Roadway/Open Space	-	-	0.04
6166	668779.0	4280945.0	Roadway/Open Space	-	-	0.04
6167	668789.0	4280945.0	Roadway/Open Space	-	-	0.04
6168	668799.0	4280945.0	Roadway/Open Space	-	-	0.05
6169	668809.0	4280945.0	Roadway/Open Space	-	-	0.05
6170	668819.0	4280945.0	Roadway/Open Space	-	-	0.05
6171	668829.0	4280945.0	Roadway/Open Space	-	-	0.05
6172	668839.0	4280945.0	Roadway/Open Space	-	-	0.06
6173	668849.0	4280945.0	Roadway/Open Space	-	-	0.06
6174	668859.0	4280945.0	Roadway/Open Space	-	-	0.06
6175	668869.0	4280945.0	Roadway/Open Space	-	-	0.07
6176	668879.0	4280945.0	Roadway/Open Space	-	-	0.07
6177	668889.0	4280945.0	Roadway/Open Space	-	-	0.08
6178	668899.0	4280945.0	Roadway/Open Space	-	-	0.08
6179	668909.0	4280945.0	Roadway/Open Space	-	-	0.09
6199	669109.0	4280945.0	Roadway/Open Space	-	-	0.19
6200	669119.0	4280945.0	Roadway/Open Space	-	-	0.17
6201	669129.0	4280945.0	Roadway/Open Space	-	-	0.17
6202	669139.0	4280945.0	Roadway/Open Space	-	-	0.15
6203	669149.0	4280945.0	Roadway/Open Space	-	-	0.14
6204	669159.0	4280945.0	Roadway/Open Space	-	-	0.12
6205	669299.0	4280945.0	Roadway/Open Space	-	-	0.05
6206	669309.0	4280945.0	Roadway/Open Space	-	-	0.05
6207	669319.0	4280945.0	Roadway/Open Space	-	-	0.05
6208	669329.0	4280945.0	Roadway/Open Space	-	-	0.05
6209	669339.0	4280945.0	Roadway/Open Space	-	-	0.05
6210	669349.0	4280945.0	Roadway/Open Space	-	-	0.05
6211	669359.0	4280945.0	Roadway/Open Space	-	-	0.05
6212	669369.0	4280945.0	Roadway/Open Space	-	-	0.05
6213	669379.0	4280945.0	Roadway/Open Space	-	-	0.05
6214	669389.0	4280945.0	Roadway/Open Space	-	-	0.05
6215	669399.0	4280945.0	Roadway/Open Space	-	-	0.05
6216	669409.0	4280945.0	Roadway/Open Space	-	-	0.05
6217	669419.0	4280945.0	Roadway/Open Space	-	-	0.05
6218	669429.0	4280945.0	Roadway/Open Space	-	-	0.05
6219	669439.0	4280945.0	Roadway/Open Space	-	-	0.04
6220	669449.0	4280945.0	Roadway/Open Space	-	-	0.03
6221	669459.0	4280945.0	Roadway/Open Space	-	-	0.03
6222	669469.0	4280945.0	Roadway/Open Space	-	-	0.03
6223	669479.0	4280945.0	Roadway/Open Space	-	-	0.03
6224	669489.0	4280945.0	Roadway/Open Space	-	-	0.03
6225	669499.0	4280945.0	Roadway/Open Space	-	-	0.03
6226	669509.0	4280945.0	Roadway/Open Space	-	-	0.03
6227	669519.0	4280945.0	Roadway/Open Space	-	-	0.03
6228	669529.0	4280945.0	Roadway/Open Space	-	-	0.03
6229	669539.0	4280945.0	Roadway/Open Space	-	-	0.03
6230	669549.0	4280945.0	Roadway/Open Space	-	-	0.03
6231	669559.0	4280945.0	Roadway/Open Space	-	-	0.03
6232	669569.0	4280945.0	Roadway/Open Space	-	-	0.03
6233	669579.0	4280945.0	Roadway/Open Space	-	-	0.03
6234	669589.0	4280945.0	Roadway/Open Space	-	-	0.03
6235	668509.0	4280955.0	Residential	0.07	0.0002	0.01
6236	668519.0	4280955.0	Residential	0.07	0.0003	0.01
6237	668529.0	4280955.0	Residential	0.07	0.0003	0.01
6238	668539.0	4280955.0	Residential	0.08	0.0003	0.01
6239	668549.0	4280955.0	Roadway/Open Space	-	-	0.01
6240	668559.0	4280955.0	Residential	0.09	0.0003	0.01

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6241	668569.0	4280955.0	Residential	0.09	0.0003	0.01
6242	668579.0	4280955.0	Residential	0.10	0.0004	0.01
6243	668589.0	4280955.0	Roadway/Open Space	-	-	0.01
6244	668599.0	4280955.0	Roadway/Open Space	-	-	0.01
6245	668609.0	4280955.0	Roadway/Open Space	-	-	0.02
6246	668619.0	4280955.0	Roadway/Open Space	-	-	0.02
6247	668629.0	4280955.0	Roadway/Open Space	-	-	0.02
6248	668639.0	4280955.0	Roadway/Open Space	-	-	0.02
6249	668649.0	4280955.0	Residential	0.21	0.001	0.02
6250	668659.0	4280955.0	Residential	0.24	0.001	0.03
6251	668669.0	4280955.0	Residential	0.27	0.001	0.03
6252	668679.0	4280955.0	Residential	0.30	0.001	0.03
6253	668689.0	4280955.0	Residential	0.35	0.001	0.04
6254	668699.0	4280955.0	Roadway/Open Space	-	-	0.04
6255	668709.0	4280955.0	Roadway/Open Space	-	-	0.04
6256	668719.0	4280955.0	Roadway/Open Space	-	-	0.04
6257	668729.0	4280955.0	Roadway/Open Space	-	-	0.04
6258	668739.0	4280955.0	Roadway/Open Space	-	-	0.03
6259	668749.0	4280955.0	Roadway/Open Space	-	-	0.04
6260	668759.0	4280955.0	Roadway/Open Space	-	-	0.04
6261	668769.0	4280955.0	Roadway/Open Space	-	-	0.04
6262	668779.0	4280955.0	Roadway/Open Space	-	-	0.04
6263	668789.0	4280955.0	Roadway/Open Space	-	-	0.04
6264	668799.0	4280955.0	Roadway/Open Space	-	-	0.04
6265	668809.0	4280955.0	Roadway/Open Space	-	-	0.05
6266	668819.0	4280955.0	Roadway/Open Space	-	-	0.05
6267	668829.0	4280955.0	Roadway/Open Space	-	-	0.05
6268	668839.0	4280955.0	Roadway/Open Space	-	-	0.06
6269	668849.0	4280955.0	Roadway/Open Space	-	-	0.06
6270	668859.0	4280955.0	Roadway/Open Space	-	-	0.07
6271	668869.0	4280955.0	Roadway/Open Space	-	-	0.07
6272	668879.0	4280955.0	Roadway/Open Space	-	-	0.07
6273	668889.0	4280955.0	Roadway/Open Space	-	-	0.08
6274	668899.0	4280955.0	Roadway/Open Space	-	-	0.08
6275	668909.0	4280955.0	Roadway/Open Space	-	-	0.09
6294	669099.0	4280955.0	Roadway/Open Space	-	-	0.22
6295	669109.0	4280955.0	Roadway/Open Space	-	-	0.20
6296	669119.0	4280955.0	Roadway/Open Space	-	-	0.18
6297	669129.0	4280955.0	Roadway/Open Space	-	-	0.18
6298	669139.0	4280955.0	Roadway/Open Space	-	-	0.16
6299	669149.0	4280955.0	Roadway/Open Space	-	-	0.14
6300	669299.0	4280955.0	Roadway/Open Space	-	-	0.05
6301	669309.0	4280955.0	Roadway/Open Space	-	-	0.05
6302	669319.0	4280955.0	Roadway/Open Space	-	-	0.05
6303	669329.0	4280955.0	Roadway/Open Space	-	-	0.05
6304	669339.0	4280955.0	Roadway/Open Space	-	-	0.05
6305	669349.0	4280955.0	Roadway/Open Space	-	-	0.05
6306	669359.0	4280955.0	Roadway/Open Space	-	-	0.05
6307	669369.0	4280955.0	Roadway/Open Space	-	-	0.05
6308	669379.0	4280955.0	Roadway/Open Space	-	-	0.05
6309	669389.0	4280955.0	Roadway/Open Space	-	-	0.05
6310	669399.0	4280955.0	Roadway/Open Space	-	-	0.05
6311	669409.0	4280955.0	Roadway/Open Space	-	-	0.05
6312	669419.0	4280955.0	Roadway/Open Space	-	-	0.05
6313	669429.0	4280955.0	Roadway/Open Space	-	-	0.05
6314	669439.0	4280955.0	Roadway/Open Space	-	-	0.04
6315	669449.0	4280955.0	Roadway/Open Space	-	-	0.04
6316	669459.0	4280955.0	Roadway/Open Space	-	-	0.03
6317	669469.0	4280955.0	Roadway/Open Space	-	-	0.03
6318	669479.0	4280955.0	Roadway/Open Space	-	-	0.03
6319	669489.0	4280955.0	Roadway/Open Space	-	-	0.03
6320	669499.0	4280955.0	Roadway/Open Space	-	-	0.03
6321	669509.0	4280955.0	Roadway/Open Space	-	-	0.03
6322	669519.0	4280955.0	Roadway/Open Space	-	-	0.03
6323	669529.0	4280955.0	Roadway/Open Space	-	-	0.03
6324	669539.0	4280955.0	Roadway/Open Space	-	-	0.03
6325	669549.0	4280955.0	Roadway/Open Space	-	-	0.03
6326	669559.0	4280955.0	Roadway/Open Space	-	-	0.03
6327	669569.0	4280955.0	Roadway/Open Space	-	-	0.03
6328	669579.0	4280955.0	Roadway/Open Space	-	-	0.02
6329	669589.0	4280955.0	Roadway/Open Space	-	-	0.03
6330	668509.0	4280965.0	Residential	0.07	0.0002	0.01
6331	668519.0	4280965.0	Residential	0.07	0.0003	0.01
6332	668529.0	4280965.0	Residential	0.07	0.0003	0.01
6333	668539.0	4280965.0	Residential	0.08	0.0003	0.01
6334	668549.0	4280965.0	Roadway/Open Space	-	-	0.01
6335	668559.0	4280965.0	Residential	0.09	0.0003	0.01
6336	668569.0	4280965.0	Residential	0.09	0.0003	0.01
6337	668579.0	4280965.0	Residential	0.10	0.0004	0.01
6338	668589.0	4280965.0	Roadway/Open Space	-	-	0.01
6339	668599.0	4280965.0	Roadway/Open Space	-	-	0.01
6340	668609.0	4280965.0	Roadway/Open Space	-	-	0.02
6341	668619.0	4280965.0	Roadway/Open Space	-	-	0.02
6342	668629.0	4280965.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6343	668639.0	4280965.0	Residential	0.20	0.001	0.02
6344	668649.0	4280965.0	Residential	0.23	0.001	0.03
6345	668659.0	4280965.0	Residential	0.26	0.001	0.03
6346	668669.0	4280965.0	Residential	0.30	0.001	0.03
6347	668679.0	4280965.0	Residential	0.33	0.001	0.04
6348	668689.0	4280965.0	Roadway/Open Space	-	-	0.04
6349	668699.0	4280965.0	Roadway/Open Space	-	-	0.04
6350	668709.0	4280965.0	Roadway/Open Space	-	-	0.04
6351	668719.0	4280965.0	Roadway/Open Space	-	-	0.04
6352	668729.0	4280965.0	Roadway/Open Space	-	-	0.03
6353	668739.0	4280965.0	Roadway/Open Space	-	-	0.04
6354	668749.0	4280965.0	Roadway/Open Space	-	-	0.04
6355	668759.0	4280965.0	Roadway/Open Space	-	-	0.04
6356	668769.0	4280965.0	Roadway/Open Space	-	-	0.04
6357	668779.0	4280965.0	Roadway/Open Space	-	-	0.04
6358	668789.0	4280965.0	Roadway/Open Space	-	-	0.04
6359	668799.0	4280965.0	Roadway/Open Space	-	-	0.04
6360	668809.0	4280965.0	Roadway/Open Space	-	-	0.05
6361	668819.0	4280965.0	Roadway/Open Space	-	-	0.05
6362	668829.0	4280965.0	Roadway/Open Space	-	-	0.05
6363	668839.0	4280965.0	Roadway/Open Space	-	-	0.06
6364	668849.0	4280965.0	Roadway/Open Space	-	-	0.06
6365	668859.0	4280965.0	Roadway/Open Space	-	-	0.07
6366	668869.0	4280965.0	Roadway/Open Space	-	-	0.07
6367	668879.0	4280965.0	Roadway/Open Space	-	-	0.07
6368	668889.0	4280965.0	Roadway/Open Space	-	-	0.08
6369	668899.0	4280965.0	Roadway/Open Space	-	-	0.08
6387	669079.0	4280965.0	Roadway/Open Space	-	-	0.25
6388	669089.0	4280965.0	Roadway/Open Space	-	-	0.25
6389	669099.0	4280965.0	Roadway/Open Space	-	-	0.23
6390	669109.0	4280965.0	Roadway/Open Space	-	-	0.21
6391	669119.0	4280965.0	Roadway/Open Space	-	-	0.19
6392	669129.0	4280965.0	Roadway/Open Space	-	-	0.19
6393	669299.0	4280965.0	Roadway/Open Space	-	-	0.05
6394	669309.0	4280965.0	Roadway/Open Space	-	-	0.05
6395	669319.0	4280965.0	Roadway/Open Space	-	-	0.05
6396	669329.0	4280965.0	Roadway/Open Space	-	-	0.05
6397	669339.0	4280965.0	Roadway/Open Space	-	-	0.05
6398	669349.0	4280965.0	Roadway/Open Space	-	-	0.05
6399	669359.0	4280965.0	Roadway/Open Space	-	-	0.05
6400	669369.0	4280965.0	Roadway/Open Space	-	-	0.05
6401	669379.0	4280965.0	Roadway/Open Space	-	-	0.05
6402	669389.0	4280965.0	Roadway/Open Space	-	-	0.05
6403	669399.0	4280965.0	Roadway/Open Space	-	-	0.05
6404	669409.0	4280965.0	Roadway/Open Space	-	-	0.05
6405	669419.0	4280965.0	Roadway/Open Space	-	-	0.05
6406	669429.0	4280965.0	Roadway/Open Space	-	-	0.05
6407	669439.0	4280965.0	Roadway/Open Space	-	-	0.04
6408	669449.0	4280965.0	Roadway/Open Space	-	-	0.04
6409	669459.0	4280965.0	Roadway/Open Space	-	-	0.03
6410	669469.0	4280965.0	Roadway/Open Space	-	-	0.03
6411	669479.0	4280965.0	Roadway/Open Space	-	-	0.03
6412	669489.0	4280965.0	Roadway/Open Space	-	-	0.03
6413	669499.0	4280965.0	Roadway/Open Space	-	-	0.03
6414	669509.0	4280965.0	Roadway/Open Space	-	-	0.03
6415	669519.0	4280965.0	Roadway/Open Space	-	-	0.03
6416	669529.0	4280965.0	Roadway/Open Space	-	-	0.03
6417	669539.0	4280965.0	Roadway/Open Space	-	-	0.03
6418	669549.0	4280965.0	Roadway/Open Space	-	-	0.03
6419	669559.0	4280965.0	Roadway/Open Space	-	-	0.03
6420	669569.0	4280965.0	Roadway/Open Space	-	-	0.03
6421	669579.0	4280965.0	Roadway/Open Space	-	-	0.02
6422	668499.0	4280975.0	Residential	0.07	0.0002	0.01
6423	668509.0	4280975.0	Residential	0.07	0.0002	0.01
6424	668519.0	4280975.0	Residential	0.07	0.0003	0.01
6425	668529.0	4280975.0	Residential	0.07	0.0003	0.01
6426	668539.0	4280975.0	Roadway/Open Space	-	-	0.01
6427	668549.0	4280975.0	Residential	0.08	0.0003	0.01
6428	668559.0	4280975.0	Residential	0.09	0.0003	0.01
6429	668569.0	4280975.0	Residential	0.10	0.0003	0.01
6430	668579.0	4280975.0	Residential	0.11	0.0004	0.01
6431	668589.0	4280975.0	Roadway/Open Space	-	-	0.01
6432	668599.0	4280975.0	Roadway/Open Space	-	-	0.02
6433	668609.0	4280975.0	Roadway/Open Space	-	-	0.02
6434	668619.0	4280975.0	Roadway/Open Space	-	-	0.02
6435	668629.0	4280975.0	Roadway/Open Space	-	-	0.02
6436	668639.0	4280975.0	Residential	0.23	0.001	0.03
6437	668649.0	4280975.0	Residential	0.26	0.001	0.03
6438	668659.0	4280975.0	Residential	0.29	0.001	0.03
6439	668669.0	4280975.0	Residential	0.33	0.001	0.04
6440	668679.0	4280975.0	Residential	0.36	0.001	0.04
6441	668689.0	4280975.0	Roadway/Open Space	-	-	0.04
6442	668699.0	4280975.0	Roadway/Open Space	-	-	0.04
6443	668709.0	4280975.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6444	668719.0	4280975.0	Roadway/Open Space	-	-	0.03
6445	668729.0	4280975.0	Roadway/Open Space	-	-	0.03
6446	668739.0	4280975.0	Roadway/Open Space	-	-	0.04
6447	668749.0	4280975.0	Roadway/Open Space	-	-	0.04
6448	668759.0	4280975.0	Roadway/Open Space	-	-	0.04
6449	668769.0	4280975.0	Roadway/Open Space	-	-	0.04
6450	668779.0	4280975.0	Roadway/Open Space	-	-	0.04
6451	668789.0	4280975.0	Roadway/Open Space	-	-	0.04
6452	668799.0	4280975.0	Roadway/Open Space	-	-	0.04
6453	668809.0	4280975.0	Roadway/Open Space	-	-	0.05
6454	668819.0	4280975.0	Roadway/Open Space	-	-	0.05
6455	668829.0	4280975.0	Roadway/Open Space	-	-	0.05
6456	668839.0	4280975.0	Roadway/Open Space	-	-	0.06
6457	668849.0	4280975.0	Roadway/Open Space	-	-	0.06
6458	668859.0	4280975.0	Roadway/Open Space	-	-	0.07
6459	668869.0	4280975.0	Roadway/Open Space	-	-	0.07
6460	668879.0	4280975.0	Roadway/Open Space	-	-	0.08
6461	668889.0	4280975.0	Roadway/Open Space	-	-	0.08
6462	668899.0	4280975.0	Roadway/Open Space	-	-	0.09
6478	669059.0	4280975.0	Roadway/Open Space	-	-	0.28
6479	669069.0	4280975.0	Roadway/Open Space	-	-	0.29
6480	669079.0	4280975.0	Roadway/Open Space	-	-	0.29
6481	669089.0	4280975.0	Roadway/Open Space	-	-	0.28
6482	669099.0	4280975.0	Roadway/Open Space	-	-	0.25
6483	669109.0	4280975.0	Roadway/Open Space	-	-	0.23
6484	669119.0	4280975.0	Roadway/Open Space	-	-	0.20
6485	669299.0	4280975.0	Roadway/Open Space	-	-	0.05
6486	669309.0	4280975.0	Roadway/Open Space	-	-	0.05
6487	669319.0	4280975.0	Roadway/Open Space	-	-	0.05
6488	669329.0	4280975.0	Roadway/Open Space	-	-	0.05
6489	669339.0	4280975.0	Roadway/Open Space	-	-	0.05
6490	669349.0	4280975.0	Roadway/Open Space	-	-	0.05
6491	669359.0	4280975.0	Roadway/Open Space	-	-	0.05
6492	669369.0	4280975.0	Roadway/Open Space	-	-	0.05
6493	669379.0	4280975.0	Roadway/Open Space	-	-	0.05
6494	669389.0	4280975.0	Roadway/Open Space	-	-	0.05
6495	669399.0	4280975.0	Roadway/Open Space	-	-	0.05
6496	669409.0	4280975.0	Roadway/Open Space	-	-	0.05
6497	669419.0	4280975.0	Roadway/Open Space	-	-	0.05
6498	669429.0	4280975.0	Roadway/Open Space	-	-	0.05
6499	669439.0	4280975.0	Roadway/Open Space	-	-	0.04
6500	669449.0	4280975.0	Roadway/Open Space	-	-	0.04
6501	669459.0	4280975.0	Roadway/Open Space	-	-	0.03
6502	669469.0	4280975.0	Roadway/Open Space	-	-	0.03
6503	669479.0	4280975.0	Roadway/Open Space	-	-	0.04
6504	669489.0	4280975.0	Roadway/Open Space	-	-	0.04
6505	669499.0	4280975.0	Roadway/Open Space	-	-	0.04
6506	669509.0	4280975.0	Roadway/Open Space	-	-	0.03
6507	669519.0	4280975.0	Roadway/Open Space	-	-	0.03
6508	669529.0	4280975.0	Roadway/Open Space	-	-	0.03
6509	669539.0	4280975.0	Roadway/Open Space	-	-	0.03
6510	669549.0	4280975.0	Roadway/Open Space	-	-	0.03
6511	669559.0	4280975.0	Roadway/Open Space	-	-	0.03
6512	669569.0	4280975.0	Roadway/Open Space	-	-	0.03
6513	669579.0	4280975.0	Roadway/Open Space	-	-	0.02
6514	668499.0	4280985.0	Residential	0.07	0.0002	0.01
6515	668509.0	4280985.0	Residential	0.07	0.0002	0.01
6516	668519.0	4280985.0	Residential	0.07	0.0003	0.01
6517	668529.0	4280985.0	Residential	0.07	0.0003	0.01
6518	668539.0	4280985.0	Roadway/Open Space	-	-	0.01
6519	668549.0	4280985.0	Residential	0.08	0.0003	0.01
6520	668559.0	4280985.0	Residential	0.09	0.0003	0.01
6521	668569.0	4280985.0	Residential	0.10	0.0004	0.01
6522	668579.0	4280985.0	Residential	0.11	0.0004	0.01
6523	668589.0	4280985.0	Roadway/Open Space	-	-	0.01
6524	668599.0	4280985.0	Roadway/Open Space	-	-	0.02
6525	668609.0	4280985.0	Roadway/Open Space	-	-	0.02
6526	668619.0	4280985.0	Roadway/Open Space	-	-	0.02
6527	668629.0	4280985.0	Residential	0.20	0.001	0.02
6528	668639.0	4280985.0	Residential	0.24	0.001	0.03
6529	668649.0	4280985.0	Residential	0.28	0.001	0.03
6530	668659.0	4280985.0	Residential	0.32	0.001	0.04
6531	668669.0	4280985.0	Residential	0.36	0.001	0.04
6532	668679.0	4280985.0	Roadway/Open Space	-	-	0.04
6533	668689.0	4280985.0	Roadway/Open Space	-	-	0.04
6534	668699.0	4280985.0	Roadway/Open Space	-	-	0.04
6535	668709.0	4280985.0	Roadway/Open Space	-	-	0.03
6536	668719.0	4280985.0	Roadway/Open Space	-	-	0.03
6537	668729.0	4280985.0	Roadway/Open Space	-	-	0.04
6538	668739.0	4280985.0	Roadway/Open Space	-	-	0.04
6539	668749.0	4280985.0	Roadway/Open Space	-	-	0.04
6540	668759.0	4280985.0	Roadway/Open Space	-	-	0.04
6541	668769.0	4280985.0	Roadway/Open Space	-	-	0.04
6542	668779.0	4280985.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6543	668789.0	4280985.0	Roadway/Open Space	-	-	0.04
6544	668799.0	4280985.0	Roadway/Open Space	-	-	0.04
6545	668809.0	4280985.0	Roadway/Open Space	-	-	0.05
6546	668819.0	4280985.0	Roadway/Open Space	-	-	0.05
6547	668829.0	4280985.0	Roadway/Open Space	-	-	0.05
6548	668839.0	4280985.0	Roadway/Open Space	-	-	0.06
6549	668849.0	4280985.0	Roadway/Open Space	-	-	0.06
6550	668859.0	4280985.0	Roadway/Open Space	-	-	0.07
6551	668869.0	4280985.0	Roadway/Open Space	-	-	0.07
6552	668879.0	4280985.0	Roadway/Open Space	-	-	0.08
6553	668889.0	4280985.0	Roadway/Open Space	-	-	0.08
6554	668899.0	4280985.0	Roadway/Open Space	-	-	0.09
6568	669039.0	4280985.0	Roadway/Open Space	-	-	0.30
6569	669049.0	4280985.0	Roadway/Open Space	-	-	0.32
6570	669059.0	4280985.0	Roadway/Open Space	-	-	0.32
6571	669069.0	4280985.0	Roadway/Open Space	-	-	0.34
6572	669079.0	4280985.0	Roadway/Open Space	-	-	0.32
6573	669089.0	4280985.0	Roadway/Open Space	-	-	0.29
6574	669099.0	4280985.0	Roadway/Open Space	-	-	0.27
6575	669109.0	4280985.0	Roadway/Open Space	-	-	0.24
6577	669299.0	4280985.0	Roadway/Open Space	-	-	0.05
6578	669309.0	4280985.0	Roadway/Open Space	-	-	0.05
6579	669319.0	4280985.0	Roadway/Open Space	-	-	0.05
6580	669329.0	4280985.0	Roadway/Open Space	-	-	0.05
6581	669339.0	4280985.0	Roadway/Open Space	-	-	0.05
6582	669349.0	4280985.0	Roadway/Open Space	-	-	0.06
6583	669359.0	4280985.0	Roadway/Open Space	-	-	0.06
6584	669369.0	4280985.0	Roadway/Open Space	-	-	0.06
6585	669379.0	4280985.0	Roadway/Open Space	-	-	0.06
6586	669389.0	4280985.0	Roadway/Open Space	-	-	0.05
6587	669399.0	4280985.0	Roadway/Open Space	-	-	0.05
6588	669409.0	4280985.0	Roadway/Open Space	-	-	0.05
6589	669419.0	4280985.0	Roadway/Open Space	-	-	0.05
6590	669429.0	4280985.0	Roadway/Open Space	-	-	0.05
6591	669439.0	4280985.0	Roadway/Open Space	-	-	0.04
6592	669449.0	4280985.0	Roadway/Open Space	-	-	0.04
6593	669459.0	4280985.0	Roadway/Open Space	-	-	0.03
6594	669469.0	4280985.0	Roadway/Open Space	-	-	0.04
6595	669479.0	4280985.0	Roadway/Open Space	-	-	0.04
6596	669489.0	4280985.0	Roadway/Open Space	-	-	0.04
6597	669499.0	4280985.0	Roadway/Open Space	-	-	0.04
6598	669509.0	4280985.0	Roadway/Open Space	-	-	0.04
6599	669519.0	4280985.0	Roadway/Open Space	-	-	0.03
6600	669529.0	4280985.0	Roadway/Open Space	-	-	0.03
6601	669539.0	4280985.0	Roadway/Open Space	-	-	0.03
6602	669549.0	4280985.0	Roadway/Open Space	-	-	0.03
6603	669559.0	4280985.0	Roadway/Open Space	-	-	0.03
6604	669569.0	4280985.0	Roadway/Open Space	-	-	0.03
6605	668499.0	4280995.0	Residential	0.07	0.0002	0.01
6606	668509.0	4280995.0	Residential	0.07	0.0002	0.01
6607	668519.0	4280995.0	Residential	0.07	0.0003	0.01
6608	668529.0	4280995.0	Roadway/Open Space	-	-	0.01
6609	668539.0	4280995.0	Residential	0.08	0.0003	0.01
6610	668549.0	4280995.0	Residential	0.09	0.0003	0.01
6611	668559.0	4280995.0	Residential	0.09	0.0003	0.01
6612	668569.0	4280995.0	Residential	0.10	0.0004	0.01
6613	668579.0	4280995.0	Roadway/Open Space	-	-	0.01
6614	668589.0	4280995.0	Roadway/Open Space	-	-	0.01
6615	668599.0	4280995.0	Roadway/Open Space	-	-	0.02
6616	668609.0	4280995.0	Roadway/Open Space	-	-	0.02
6617	668619.0	4280995.0	Roadway/Open Space	-	-	0.02
6618	668629.0	4280995.0	Residential	0.21	0.001	0.02
6619	668639.0	4280995.0	Residential	0.25	0.001	0.03
6620	668649.0	4280995.0	Residential	0.29	0.001	0.03
6621	668659.0	4280995.0	Residential	0.34	0.001	0.04
6622	668669.0	4280995.0	Residential	0.39	0.001	0.04
6623	668679.0	4280995.0	Roadway/Open Space	-	-	0.04
6624	668689.0	4280995.0	Roadway/Open Space	-	-	0.04
6625	668699.0	4280995.0	Roadway/Open Space	-	-	0.03
6626	668709.0	4280995.0	Roadway/Open Space	-	-	0.03
6627	668719.0	4280995.0	Roadway/Open Space	-	-	0.04
6628	668729.0	4280995.0	Roadway/Open Space	-	-	0.04
6629	668739.0	4280995.0	Roadway/Open Space	-	-	0.04
6630	668749.0	4280995.0	Roadway/Open Space	-	-	0.04
6631	668759.0	4280995.0	Roadway/Open Space	-	-	0.04
6632	668769.0	4280995.0	Roadway/Open Space	-	-	0.04
6633	668779.0	4280995.0	Roadway/Open Space	-	-	0.04
6634	668789.0	4280995.0	Roadway/Open Space	-	-	0.04
6635	668799.0	4280995.0	Roadway/Open Space	-	-	0.05
6636	668809.0	4280995.0	Roadway/Open Space	-	-	0.05
6637	668819.0	4280995.0	Roadway/Open Space	-	-	0.05
6638	668829.0	4280995.0	Roadway/Open Space	-	-	0.05
6639	668839.0	4280995.0	Roadway/Open Space	-	-	0.06
6640	668849.0	4280995.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6641	668859.0	4280995.0	Roadway/Open Space	-	-	0.07
6642	668869.0	4280995.0	Roadway/Open Space	-	-	0.07
6643	668879.0	4280995.0	Roadway/Open Space	-	-	0.08
6644	668889.0	4280995.0	Roadway/Open Space	-	-	0.08
6645	668899.0	4280995.0	Roadway/Open Space	-	-	0.09
6657	669019.0	4280995.0	Roadway/Open Space	-	-	0.32
6658	669029.0	4280995.0	Roadway/Open Space	-	-	0.32
6659	669039.0	4280995.0	Roadway/Open Space	-	-	0.34
6660	669049.0	4280995.0	Roadway/Open Space	-	-	0.36
6661	669059.0	4280995.0	Roadway/Open Space	-	-	0.37
6662	669069.0	4280995.0	Roadway/Open Space	-	-	0.40
6663	669079.0	4280995.0	Roadway/Open Space	-	-	0.36
6664	669089.0	4280995.0	Roadway/Open Space	-	-	0.33
6668	669299.0	4280995.0	Roadway/Open Space	-	-	0.05
6669	669309.0	4280995.0	Roadway/Open Space	-	-	0.05
6670	669319.0	4280995.0	Roadway/Open Space	-	-	0.06
6671	669329.0	4280995.0	Roadway/Open Space	-	-	0.06
6672	669339.0	4280995.0	Roadway/Open Space	-	-	0.06
6673	669349.0	4280995.0	Roadway/Open Space	-	-	0.06
6674	669359.0	4280995.0	Roadway/Open Space	-	-	0.06
6675	669369.0	4280995.0	Roadway/Open Space	-	-	0.06
6676	669379.0	4280995.0	Roadway/Open Space	-	-	0.06
6677	669389.0	4280995.0	Roadway/Open Space	-	-	0.05
6678	669399.0	4280995.0	Roadway/Open Space	-	-	0.05
6679	669409.0	4280995.0	Roadway/Open Space	-	-	0.05
6680	669419.0	4280995.0	Roadway/Open Space	-	-	0.05
6681	669429.0	4280995.0	Roadway/Open Space	-	-	0.05
6682	669439.0	4280995.0	Roadway/Open Space	-	-	0.04
6683	669449.0	4280995.0	Roadway/Open Space	-	-	0.04
6684	669459.0	4280995.0	Roadway/Open Space	-	-	0.04
6685	669469.0	4280995.0	Roadway/Open Space	-	-	0.04
6686	669479.0	4280995.0	Roadway/Open Space	-	-	0.04
6687	669489.0	4280995.0	Roadway/Open Space	-	-	0.04
6688	669499.0	4280995.0	Roadway/Open Space	-	-	0.04
6689	669509.0	4280995.0	Roadway/Open Space	-	-	0.04
6690	669519.0	4280995.0	Roadway/Open Space	-	-	0.03
6691	669529.0	4280995.0	Roadway/Open Space	-	-	0.03
6692	669539.0	4280995.0	Roadway/Open Space	-	-	0.03
6693	669549.0	4280995.0	Roadway/Open Space	-	-	0.03
6694	669559.0	4280995.0	Roadway/Open Space	-	-	0.03
6695	669569.0	4280995.0	Roadway/Open Space	-	-	0.03
6696	668499.0	4281005.0	Residential	0.06	0.0002	0.01
6697	668509.0	4281005.0	Residential	0.07	0.0002	0.01
6698	668519.0	4281005.0	Roadway/Open Space	-	-	0.01
6699	668529.0	4281005.0	Residential	0.08	0.0003	0.01
6700	668539.0	4281005.0	Residential	0.08	0.0003	0.01
6701	668549.0	4281005.0	Residential	0.09	0.0003	0.01
6702	668559.0	4281005.0	Residential	0.10	0.0003	0.01
6703	668569.0	4281005.0	Residential	0.10	0.0004	0.01
6704	668579.0	4281005.0	Roadway/Open Space	-	-	0.01
6705	668589.0	4281005.0	Roadway/Open Space	-	-	0.01
6706	668599.0	4281005.0	Roadway/Open Space	-	-	0.02
6707	668609.0	4281005.0	Roadway/Open Space	-	-	0.02
6708	668619.0	4281005.0	Residential	0.18	0.001	0.02
6709	668629.0	4281005.0	Residential	0.21	0.001	0.03
6710	668639.0	4281005.0	Residential	0.25	0.001	0.03
6711	668649.0	4281005.0	Residential	0.30	0.001	0.04
6712	668659.0	4281005.0	Residential	0.36	0.001	0.04
6713	668669.0	4281005.0	Roadway/Open Space	-	-	0.04
6714	668679.0	4281005.0	Roadway/Open Space	-	-	0.04
6715	668689.0	4281005.0	Roadway/Open Space	-	-	0.03
6716	668699.0	4281005.0	Roadway/Open Space	-	-	0.03
6717	668709.0	4281005.0	Roadway/Open Space	-	-	0.03
6718	668719.0	4281005.0	Roadway/Open Space	-	-	0.03
6719	668729.0	4281005.0	Roadway/Open Space	-	-	0.04
6720	668739.0	4281005.0	Roadway/Open Space	-	-	0.04
6721	668749.0	4281005.0	Roadway/Open Space	-	-	0.04
6722	668759.0	4281005.0	Roadway/Open Space	-	-	0.04
6723	668769.0	4281005.0	Roadway/Open Space	-	-	0.04
6724	668779.0	4281005.0	Roadway/Open Space	-	-	0.04
6725	668789.0	4281005.0	Roadway/Open Space	-	-	0.04
6726	668799.0	4281005.0	Roadway/Open Space	-	-	0.05
6727	668809.0	4281005.0	Roadway/Open Space	-	-	0.05
6728	668819.0	4281005.0	Roadway/Open Space	-	-	0.05
6729	668829.0	4281005.0	Roadway/Open Space	-	-	0.06
6730	668839.0	4281005.0	Roadway/Open Space	-	-	0.06
6731	668849.0	4281005.0	Roadway/Open Space	-	-	0.06
6732	668859.0	4281005.0	Roadway/Open Space	-	-	0.07
6733	668869.0	4281005.0	Roadway/Open Space	-	-	0.07
6734	668879.0	4281005.0	Roadway/Open Space	-	-	0.07
6735	668889.0	4281005.0	Roadway/Open Space	-	-	0.08
6736	668899.0	4281005.0	Roadway/Open Space	-	-	0.09
6745	668989.0	4281005.0	Roadway/Open Space	-	-	0.27
6746	668999.0	4281005.0	Roadway/Open Space	-	-	0.32

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6747	669009.0	4281005.0	Roadway/Open Space	-	-	0.35
6748	669019.0	4281005.0	Roadway/Open Space	-	-	0.36
6749	669029.0	4281005.0	Roadway/Open Space	-	-	0.38
6750	669039.0	4281005.0	Roadway/Open Space	-	-	0.40
6751	669049.0	4281005.0	Roadway/Open Space	-	-	0.42
6752	669059.0	4281005.0	Roadway/Open Space	-	-	0.44
6753	669069.0	4281005.0	Roadway/Open Space	-	-	0.46
6760	669299.0	4281005.0	Roadway/Open Space	-	-	0.06
6761	669309.0	4281005.0	Roadway/Open Space	-	-	0.06
6762	669319.0	4281005.0	Roadway/Open Space	-	-	0.06
6763	669329.0	4281005.0	Roadway/Open Space	-	-	0.06
6764	669339.0	4281005.0	Roadway/Open Space	-	-	0.06
6765	669349.0	4281005.0	Roadway/Open Space	-	-	0.06
6766	669359.0	4281005.0	Roadway/Open Space	-	-	0.06
6767	669369.0	4281005.0	Roadway/Open Space	-	-	0.06
6768	669379.0	4281005.0	Roadway/Open Space	-	-	0.06
6769	669389.0	4281005.0	Roadway/Open Space	-	-	0.06
6770	669399.0	4281005.0	Roadway/Open Space	-	-	0.05
6771	669409.0	4281005.0	Roadway/Open Space	-	-	0.05
6772	669419.0	4281005.0	Roadway/Open Space	-	-	0.05
6773	669429.0	4281005.0	Roadway/Open Space	-	-	0.05
6774	669439.0	4281005.0	Roadway/Open Space	-	-	0.04
6775	669449.0	4281005.0	Roadway/Open Space	-	-	0.04
6776	669459.0	4281005.0	Roadway/Open Space	-	-	0.04
6777	669469.0	4281005.0	Roadway/Open Space	-	-	0.04
6778	669479.0	4281005.0	Roadway/Open Space	-	-	0.04
6779	669489.0	4281005.0	Roadway/Open Space	-	-	0.04
6780	669499.0	4281005.0	Roadway/Open Space	-	-	0.04
6781	669509.0	4281005.0	Roadway/Open Space	-	-	0.04
6782	669519.0	4281005.0	Roadway/Open Space	-	-	0.04
6783	669529.0	4281005.0	Roadway/Open Space	-	-	0.03
6784	669539.0	4281005.0	Roadway/Open Space	-	-	0.03
6785	669549.0	4281005.0	Roadway/Open Space	-	-	0.03
6786	669559.0	4281005.0	Roadway/Open Space	-	-	0.03
6787	668499.0	4281015.0	Residential	0.07	0.0002	0.01
6788	668509.0	4281015.0	Roadway/Open Space	-	-	0.01
6789	668519.0	4281015.0	Roadway/Open Space	-	-	0.01
6790	668529.0	4281015.0	Residential	0.08	0.0003	0.01
6791	668539.0	4281015.0	Residential	0.08	0.0003	0.01
6792	668549.0	4281015.0	Residential	0.09	0.0003	0.01
6793	668559.0	4281015.0	Residential	0.10	0.0004	0.01
6794	668569.0	4281015.0	Residential	0.11	0.0004	0.01
6795	668579.0	4281015.0	Roadway/Open Space	-	-	0.01
6796	668589.0	4281015.0	Roadway/Open Space	-	-	0.01
6797	668599.0	4281015.0	Roadway/Open Space	-	-	0.02
6798	668609.0	4281015.0	Roadway/Open Space	-	-	0.02
6799	668619.0	4281015.0	Residential	0.18	0.001	0.02
6800	668629.0	4281015.0	Residential	0.22	0.001	0.02
6801	668639.0	4281015.0	Residential	0.26	0.001	0.03
6802	668649.0	4281015.0	Residential	0.31	0.001	0.04
6803	668659.0	4281015.0	Residential	0.37	0.001	0.04
6804	668669.0	4281015.0	Roadway/Open Space	-	-	0.04
6805	668679.0	4281015.0	Roadway/Open Space	-	-	0.04
6806	668689.0	4281015.0	Roadway/Open Space	-	-	0.03
6807	668699.0	4281015.0	Roadway/Open Space	-	-	0.03
6808	668709.0	4281015.0	Roadway/Open Space	-	-	0.03
6809	668719.0	4281015.0	Roadway/Open Space	-	-	0.03
6810	668729.0	4281015.0	Roadway/Open Space	-	-	0.03
6811	668739.0	4281015.0	Roadway/Open Space	-	-	0.04
6812	668749.0	4281015.0	Roadway/Open Space	-	-	0.04
6813	668759.0	4281015.0	Roadway/Open Space	-	-	0.04
6814	668769.0	4281015.0	Roadway/Open Space	-	-	0.04
6815	668779.0	4281015.0	Roadway/Open Space	-	-	0.04
6816	668789.0	4281015.0	Roadway/Open Space	-	-	0.05
6817	668799.0	4281015.0	Roadway/Open Space	-	-	0.05
6818	668809.0	4281015.0	Roadway/Open Space	-	-	0.05
6819	668819.0	4281015.0	Roadway/Open Space	-	-	0.06
6820	668829.0	4281015.0	Roadway/Open Space	-	-	0.06
6821	668839.0	4281015.0	Roadway/Open Space	-	-	0.06
6822	668849.0	4281015.0	Roadway/Open Space	-	-	0.07
6823	668859.0	4281015.0	Roadway/Open Space	-	-	0.07
6824	668869.0	4281015.0	Roadway/Open Space	-	-	0.07
6825	668879.0	4281015.0	Roadway/Open Space	-	-	0.07
6826	668889.0	4281015.0	Roadway/Open Space	-	-	0.08
6834	668969.0	4281015.0	Roadway/Open Space	-	-	0.23
6835	668979.0	4281015.0	Roadway/Open Space	-	-	0.24
6836	668989.0	4281015.0	Roadway/Open Space	-	-	0.26
6837	668999.0	4281015.0	Roadway/Open Space	-	-	0.31
6838	669009.0	4281015.0	Roadway/Open Space	-	-	0.39
6839	669019.0	4281015.0	Roadway/Open Space	-	-	0.42
6840	669029.0	4281015.0	Roadway/Open Space	-	-	0.43
6841	669039.0	4281015.0	Roadway/Open Space	-	-	0.47
6842	669049.0	4281015.0	Roadway/Open Space	-	-	0.47
6851	669299.0	4281015.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6852	669309.0	4281015.0	Roadway/Open Space	-	-	0.06
6853	669319.0	4281015.0	Roadway/Open Space	-	-	0.06
6854	669329.0	4281015.0	Roadway/Open Space	-	-	0.06
6855	669339.0	4281015.0	Roadway/Open Space	-	-	0.06
6856	669349.0	4281015.0	Roadway/Open Space	-	-	0.06
6857	669359.0	4281015.0	Roadway/Open Space	-	-	0.06
6858	669369.0	4281015.0	Roadway/Open Space	-	-	0.06
6859	669379.0	4281015.0	Roadway/Open Space	-	-	0.06
6860	669389.0	4281015.0	Roadway/Open Space	-	-	0.06
6861	669399.0	4281015.0	Roadway/Open Space	-	-	0.05
6862	669409.0	4281015.0	Roadway/Open Space	-	-	0.05
6863	669419.0	4281015.0	Roadway/Open Space	-	-	0.05
6864	669429.0	4281015.0	Roadway/Open Space	-	-	0.05
6865	669439.0	4281015.0	Roadway/Open Space	-	-	0.05
6866	669449.0	4281015.0	Roadway/Open Space	-	-	0.04
6867	669459.0	4281015.0	Roadway/Open Space	-	-	0.04
6868	669469.0	4281015.0	Roadway/Open Space	-	-	0.04
6869	669479.0	4281015.0	Roadway/Open Space	-	-	0.04
6870	669489.0	4281015.0	Roadway/Open Space	-	-	0.04
6871	669499.0	4281015.0	Roadway/Open Space	-	-	0.04
6872	669509.0	4281015.0	Roadway/Open Space	-	-	0.04
6873	669519.0	4281015.0	Roadway/Open Space	-	-	0.04
6874	669529.0	4281015.0	Roadway/Open Space	-	-	0.04
6875	669539.0	4281015.0	Roadway/Open Space	-	-	0.03
6876	669549.0	4281015.0	Roadway/Open Space	-	-	0.03
6877	669559.0	4281015.0	Roadway/Open Space	-	-	0.03
6878	668499.0	4281025.0	Residential	0.07	0.0002	0.01
6879	668509.0	4281025.0	Roadway/Open Space	-	-	0.01
6880	668519.0	4281025.0	Residential	0.07	0.0003	0.01
6881	668529.0	4281025.0	Residential	0.08	0.0003	0.01
6882	668539.0	4281025.0	Residential	0.09	0.0003	0.01
6883	668549.0	4281025.0	Residential	0.09	0.0003	0.01
6884	668559.0	4281025.0	Residential	0.10	0.0004	0.01
6885	668569.0	4281025.0	Roadway/Open Space	-	-	0.01
6886	668579.0	4281025.0	Roadway/Open Space	-	-	0.01
6887	668589.0	4281025.0	Roadway/Open Space	-	-	0.01
6888	668599.0	4281025.0	Roadway/Open Space	-	-	0.02
6889	668609.0	4281025.0	Residential	0.17	0.001	0.02
6890	668619.0	4281025.0	Residential	0.19	0.001	0.02
6891	668629.0	4281025.0	Residential	0.22	0.001	0.03
6892	668639.0	4281025.0	Residential	0.26	0.001	0.03
6893	668649.0	4281025.0	Residential	0.31	0.001	0.04
6894	668659.0	4281025.0	Roadway/Open Space	-	-	0.04
6895	668669.0	4281025.0	Roadway/Open Space	-	-	0.04
6896	668679.0	4281025.0	Roadway/Open Space	-	-	0.04
6897	668689.0	4281025.0	Roadway/Open Space	-	-	0.03
6898	668699.0	4281025.0	Roadway/Open Space	-	-	0.03
6899	668709.0	4281025.0	Roadway/Open Space	-	-	0.03
6900	668719.0	4281025.0	Roadway/Open Space	-	-	0.03
6901	668729.0	4281025.0	Roadway/Open Space	-	-	0.03
6902	668739.0	4281025.0	Roadway/Open Space	-	-	0.04
6903	668749.0	4281025.0	Roadway/Open Space	-	-	0.04
6904	668759.0	4281025.0	Roadway/Open Space	-	-	0.04
6905	668769.0	4281025.0	Roadway/Open Space	-	-	0.04
6906	668779.0	4281025.0	Roadway/Open Space	-	-	0.05
6907	668789.0	4281025.0	Roadway/Open Space	-	-	0.05
6908	668799.0	4281025.0	Roadway/Open Space	-	-	0.05
6909	668809.0	4281025.0	Roadway/Open Space	-	-	0.05
6910	668819.0	4281025.0	Roadway/Open Space	-	-	0.06
6911	668829.0	4281025.0	Roadway/Open Space	-	-	0.06
6912	668839.0	4281025.0	Roadway/Open Space	-	-	0.06
6913	668849.0	4281025.0	Roadway/Open Space	-	-	0.07
6914	668859.0	4281025.0	Roadway/Open Space	-	-	0.07
6915	668869.0	4281025.0	Roadway/Open Space	-	-	0.07
6916	668879.0	4281025.0	Roadway/Open Space	-	-	0.08
6917	668889.0	4281025.0	Roadway/Open Space	-	-	0.08
6922	668939.0	4281025.0	Roadway/Open Space	-	-	0.15
6923	668949.0	4281025.0	Roadway/Open Space	-	-	0.18
6924	668959.0	4281025.0	Roadway/Open Space	-	-	0.21
6925	668969.0	4281025.0	Roadway/Open Space	-	-	0.24
6926	668979.0	4281025.0	Roadway/Open Space	-	-	0.27
6927	668989.0	4281025.0	Roadway/Open Space	-	-	0.30
6928	668999.0	4281025.0	Roadway/Open Space	-	-	0.32
6929	669009.0	4281025.0	Roadway/Open Space	-	-	0.39
6930	669019.0	4281025.0	Roadway/Open Space	-	-	0.45
6931	669029.0	4281025.0	Roadway/Open Space	-	-	0.50
6942	669299.0	4281025.0	Roadway/Open Space	-	-	0.06
6943	669309.0	4281025.0	Roadway/Open Space	-	-	0.06
6944	669319.0	4281025.0	Roadway/Open Space	-	-	0.06
6945	669329.0	4281025.0	Roadway/Open Space	-	-	0.06
6946	669339.0	4281025.0	Roadway/Open Space	-	-	0.06
6947	669349.0	4281025.0	Roadway/Open Space	-	-	0.06
6948	669359.0	4281025.0	Roadway/Open Space	-	-	0.06
6949	669369.0	4281025.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
6950	669379.0	4281025.0	Roadway/Open Space	-	-	0.06
6951	669389.0	4281025.0	Roadway/Open Space	-	-	0.06
6952	669399.0	4281025.0	Roadway/Open Space	-	-	0.05
6953	669409.0	4281025.0	Roadway/Open Space	-	-	0.05
6954	669419.0	4281025.0	Roadway/Open Space	-	-	0.05
6955	669429.0	4281025.0	Roadway/Open Space	-	-	0.05
6956	669439.0	4281025.0	Roadway/Open Space	-	-	0.05
6957	669449.0	4281025.0	Roadway/Open Space	-	-	0.04
6958	669459.0	4281025.0	Roadway/Open Space	-	-	0.04
6959	669469.0	4281025.0	Roadway/Open Space	-	-	0.04
6960	669479.0	4281025.0	Roadway/Open Space	-	-	0.04
6961	669489.0	4281025.0	Roadway/Open Space	-	-	0.04
6962	669499.0	4281025.0	Roadway/Open Space	-	-	0.04
6963	669509.0	4281025.0	Roadway/Open Space	-	-	0.04
6964	669519.0	4281025.0	Roadway/Open Space	-	-	0.04
6965	669529.0	4281025.0	Roadway/Open Space	-	-	0.04
6966	669539.0	4281025.0	Roadway/Open Space	-	-	0.03
6967	669549.0	4281025.0	Roadway/Open Space	-	-	0.03
6968	668499.0	4281035.0	Roadway/Open Space	-	-	0.01
6969	668509.0	4281035.0	Residential	0.07	0.0003	0.01
6970	668519.0	4281035.0	Residential	0.08	0.0003	0.01
6971	668529.0	4281035.0	Residential	0.08	0.0003	0.01
6972	668539.0	4281035.0	Residential	0.09	0.0003	0.01
6973	668549.0	4281035.0	Residential	0.10	0.0003	0.01
6974	668559.0	4281035.0	Roadway/Open Space	-	-	0.01
6975	668569.0	4281035.0	Roadway/Open Space	-	-	0.01
6976	668579.0	4281035.0	Roadway/Open Space	-	-	0.01
6977	668589.0	4281035.0	Roadway/Open Space	-	-	0.01
6978	668599.0	4281035.0	Roadway/Open Space	-	-	0.02
6979	668609.0	4281035.0	Residential	0.18	0.001	0.02
6980	668619.0	4281035.0	Residential	0.20	0.001	0.02
6981	668629.0	4281035.0	Residential	0.24	0.001	0.03
6982	668639.0	4281035.0	Residential	0.28	0.001	0.03
6983	668649.0	4281035.0	Residential	0.32	0.001	0.04
6984	668659.0	4281035.0	Roadway/Open Space	-	-	0.04
6985	668669.0	4281035.0	Roadway/Open Space	-	-	0.04
6986	668679.0	4281035.0	Roadway/Open Space	-	-	0.04
6987	668689.0	4281035.0	Roadway/Open Space	-	-	0.03
6988	668699.0	4281035.0	Roadway/Open Space	-	-	0.03
6989	668709.0	4281035.0	Roadway/Open Space	-	-	0.03
6990	668719.0	4281035.0	Roadway/Open Space	-	-	0.03
6991	668729.0	4281035.0	Roadway/Open Space	-	-	0.03
6992	668739.0	4281035.0	Roadway/Open Space	-	-	0.04
6993	668749.0	4281035.0	Roadway/Open Space	-	-	0.04
6994	668759.0	4281035.0	Roadway/Open Space	-	-	0.04
6995	668769.0	4281035.0	Roadway/Open Space	-	-	0.04
6996	668779.0	4281035.0	Roadway/Open Space	-	-	0.05
6997	668789.0	4281035.0	Roadway/Open Space	-	-	0.05
6998	668799.0	4281035.0	Roadway/Open Space	-	-	0.05
6999	668809.0	4281035.0	Roadway/Open Space	-	-	0.06
7000	668819.0	4281035.0	Roadway/Open Space	-	-	0.06
7001	668829.0	4281035.0	Roadway/Open Space	-	-	0.06
7002	668839.0	4281035.0	Roadway/Open Space	-	-	0.07
7003	668849.0	4281035.0	Roadway/Open Space	-	-	0.07
7004	668859.0	4281035.0	Roadway/Open Space	-	-	0.07
7005	668869.0	4281035.0	Roadway/Open Space	-	-	0.08
7006	668879.0	4281035.0	Roadway/Open Space	-	-	0.08
7007	668889.0	4281035.0	Roadway/Open Space	-	-	0.09
7010	668919.0	4281035.0	Roadway/Open Space	-	-	0.11
7011	668929.0	4281035.0	Roadway/Open Space	-	-	0.12
7012	668939.0	4281035.0	Roadway/Open Space	-	-	0.14
7013	668949.0	4281035.0	Roadway/Open Space	-	-	0.17
7014	668959.0	4281035.0	Roadway/Open Space	-	-	0.20
7015	668969.0	4281035.0	Roadway/Open Space	-	-	0.24
7016	668979.0	4281035.0	Roadway/Open Space	-	-	0.28
7017	668989.0	4281035.0	Roadway/Open Space	-	-	0.33
7018	668999.0	4281035.0	Roadway/Open Space	-	-	0.37
7032	669299.0	4281035.0	Roadway/Open Space	-	-	0.06
7033	669309.0	4281035.0	Roadway/Open Space	-	-	0.06
7034	669319.0	4281035.0	Roadway/Open Space	-	-	0.06
7035	669329.0	4281035.0	Roadway/Open Space	-	-	0.06
7036	669339.0	4281035.0	Roadway/Open Space	-	-	0.06
7037	669349.0	4281035.0	Roadway/Open Space	-	-	0.06
7038	669359.0	4281035.0	Roadway/Open Space	-	-	0.06
7039	669369.0	4281035.0	Roadway/Open Space	-	-	0.06
7040	669379.0	4281035.0	Roadway/Open Space	-	-	0.06
7041	669389.0	4281035.0	Roadway/Open Space	-	-	0.06
7042	669399.0	4281035.0	Roadway/Open Space	-	-	0.05
7043	669409.0	4281035.0	Roadway/Open Space	-	-	0.05
7044	669419.0	4281035.0	Roadway/Open Space	-	-	0.05
7045	669429.0	4281035.0	Roadway/Open Space	-	-	0.05
7046	669439.0	4281035.0	Roadway/Open Space	-	-	0.05
7047	669449.0	4281035.0	Roadway/Open Space	-	-	0.05
7048	669459.0	4281035.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7049	669469.0	4281035.0	Roadway/Open Space	-	-	0.04
7050	669479.0	4281035.0	Roadway/Open Space	-	-	0.04
7051	669489.0	4281035.0	Roadway/Open Space	-	-	0.04
7052	669499.0	4281035.0	Roadway/Open Space	-	-	0.04
7053	669509.0	4281035.0	Roadway/Open Space	-	-	0.04
7054	669519.0	4281035.0	Roadway/Open Space	-	-	0.04
7055	669529.0	4281035.0	Roadway/Open Space	-	-	0.04
7056	669539.0	4281035.0	Roadway/Open Space	-	-	0.04
7057	669549.0	4281035.0	Roadway/Open Space	-	-	0.04
7058	668499.0	4281045.0	Residential	0.07	0.0002	0.01
7059	668509.0	4281045.0	Residential	0.07	0.0003	0.01
7060	668519.0	4281045.0	Residential	0.08	0.0003	0.01
7061	668529.0	4281045.0	Residential	0.08	0.0003	0.01
7062	668539.0	4281045.0	Residential	0.09	0.0003	0.01
7063	668549.0	4281045.0	Residential	0.10	0.0004	0.01
7064	668559.0	4281045.0	Roadway/Open Space	-	-	0.01
7065	668569.0	4281045.0	Roadway/Open Space	-	-	0.01
7066	668579.0	4281045.0	Roadway/Open Space	-	-	0.01
7067	668589.0	4281045.0	Roadway/Open Space	-	-	0.01
7068	668599.0	4281045.0	Residential	0.17	0.001	0.02
7069	668609.0	4281045.0	Residential	0.19	0.001	0.02
7070	668619.0	4281045.0	Residential	0.22	0.001	0.03
7071	668629.0	4281045.0	Residential	0.25	0.001	0.03
7072	668639.0	4281045.0	Residential	0.29	0.001	0.03
7073	668649.0	4281045.0	Roadway/Open Space	-	-	0.04
7074	668659.0	4281045.0	Roadway/Open Space	-	-	0.04
7075	668669.0	4281045.0	Roadway/Open Space	-	-	0.04
7076	668679.0	4281045.0	Roadway/Open Space	-	-	0.03
7077	668689.0	4281045.0	Roadway/Open Space	-	-	0.03
7078	668699.0	4281045.0	Roadway/Open Space	-	-	0.03
7079	668709.0	4281045.0	Roadway/Open Space	-	-	0.03
7080	668719.0	4281045.0	Roadway/Open Space	-	-	0.03
7081	668729.0	4281045.0	Roadway/Open Space	-	-	0.03
7082	668739.0	4281045.0	Roadway/Open Space	-	-	0.04
7083	668749.0	4281045.0	Roadway/Open Space	-	-	0.04
7084	668759.0	4281045.0	Roadway/Open Space	-	-	0.04
7085	668769.0	4281045.0	Roadway/Open Space	-	-	0.04
7086	668779.0	4281045.0	Roadway/Open Space	-	-	0.05
7087	668789.0	4281045.0	Roadway/Open Space	-	-	0.05
7088	668799.0	4281045.0	Roadway/Open Space	-	-	0.05
7089	668809.0	4281045.0	Roadway/Open Space	-	-	0.06
7090	668819.0	4281045.0	Roadway/Open Space	-	-	0.06
7091	668829.0	4281045.0	Roadway/Open Space	-	-	0.06
7092	668839.0	4281045.0	Roadway/Open Space	-	-	0.07
7093	668849.0	4281045.0	Roadway/Open Space	-	-	0.07
7094	668859.0	4281045.0	Roadway/Open Space	-	-	0.08
7095	668869.0	4281045.0	Roadway/Open Space	-	-	0.08
7096	668879.0	4281045.0	Roadway/Open Space	-	-	0.08
7097	668889.0	4281045.0	Roadway/Open Space	-	-	0.09
7098	668899.0	4281045.0	Roadway/Open Space	-	-	0.10
7099	668909.0	4281045.0	Roadway/Open Space	-	-	0.11
7100	668919.0	4281045.0	Roadway/Open Space	-	-	0.11
7101	668929.0	4281045.0	Roadway/Open Space	-	-	0.13
7102	668939.0	4281045.0	Roadway/Open Space	-	-	0.15
7103	668949.0	4281045.0	Roadway/Open Space	-	-	0.17
7104	668959.0	4281045.0	Roadway/Open Space	-	-	0.20
7105	668969.0	4281045.0	Roadway/Open Space	-	-	0.24
7106	668979.0	4281045.0	Roadway/Open Space	-	-	0.28
7122	669299.0	4281045.0	Roadway/Open Space	-	-	0.06
7123	669309.0	4281045.0	Roadway/Open Space	-	-	0.06
7124	669319.0	4281045.0	Roadway/Open Space	-	-	0.06
7125	669329.0	4281045.0	Roadway/Open Space	-	-	0.06
7126	669339.0	4281045.0	Roadway/Open Space	-	-	0.06
7127	669349.0	4281045.0	Roadway/Open Space	-	-	0.06
7128	669359.0	4281045.0	Roadway/Open Space	-	-	0.06
7129	669369.0	4281045.0	Roadway/Open Space	-	-	0.06
7130	669379.0	4281045.0	Roadway/Open Space	-	-	0.06
7131	669389.0	4281045.0	Roadway/Open Space	-	-	0.06
7132	669399.0	4281045.0	Roadway/Open Space	-	-	0.05
7133	669409.0	4281045.0	Roadway/Open Space	-	-	0.05
7134	669419.0	4281045.0	Roadway/Open Space	-	-	0.05
7135	669429.0	4281045.0	Roadway/Open Space	-	-	0.05
7136	669439.0	4281045.0	Roadway/Open Space	-	-	0.05
7137	669449.0	4281045.0	Roadway/Open Space	-	-	0.05
7138	669459.0	4281045.0	Roadway/Open Space	-	-	0.04
7139	669469.0	4281045.0	Roadway/Open Space	-	-	0.04
7140	669479.0	4281045.0	Roadway/Open Space	-	-	0.04
7141	669489.0	4281045.0	Roadway/Open Space	-	-	0.04
7142	669499.0	4281045.0	Roadway/Open Space	-	-	0.04
7143	669509.0	4281045.0	Roadway/Open Space	-	-	0.04
7144	669519.0	4281045.0	Roadway/Open Space	-	-	0.04
7145	669529.0	4281045.0	Roadway/Open Space	-	-	0.04
7146	669539.0	4281045.0	Roadway/Open Space	-	-	0.04
7147	668499.0	4281055.0	Residential	0.07	0.0002	0.01

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7148	668509.0	4281055.0	Residential	0.07	0.0003	0.01
7149	668519.0	4281055.0	Residential	0.08	0.0003	0.01
7150	668529.0	4281055.0	Residential	0.08	0.0003	0.01
7151	668539.0	4281055.0	Residential	0.09	0.0003	0.01
7152	668549.0	4281055.0	Roadway/Open Space	-	-	0.01
7153	668559.0	4281055.0	Roadway/Open Space	-	-	0.01
7154	668569.0	4281055.0	Roadway/Open Space	-	-	0.01
7155	668579.0	4281055.0	Roadway/Open Space	-	-	0.01
7156	668589.0	4281055.0	Residential	0.15	0.001	0.02
7157	668599.0	4281055.0	Residential	0.17	0.001	0.02
7158	668609.0	4281055.0	Residential	0.20	0.001	0.02
7159	668619.0	4281055.0	Residential	0.23	0.001	0.03
7160	668629.0	4281055.0	Residential	0.27	0.001	0.03
7161	668639.0	4281055.0	Residential	0.31	0.001	0.03
7162	668649.0	4281055.0	Roadway/Open Space	-	-	0.04
7163	668659.0	4281055.0	Roadway/Open Space	-	-	0.04
7164	668669.0	4281055.0	Roadway/Open Space	-	-	0.04
7165	668679.0	4281055.0	Roadway/Open Space	-	-	0.03
7166	668689.0	4281055.0	Roadway/Open Space	-	-	0.03
7167	668699.0	4281055.0	Roadway/Open Space	-	-	0.03
7168	668709.0	4281055.0	Roadway/Open Space	-	-	0.03
7169	668719.0	4281055.0	Roadway/Open Space	-	-	0.03
7170	668729.0	4281055.0	Roadway/Open Space	-	-	0.03
7171	668739.0	4281055.0	Roadway/Open Space	-	-	0.04
7172	668749.0	4281055.0	Roadway/Open Space	-	-	0.04
7173	668759.0	4281055.0	Roadway/Open Space	-	-	0.04
7174	668769.0	4281055.0	Roadway/Open Space	-	-	0.04
7175	668779.0	4281055.0	Roadway/Open Space	-	-	0.05
7176	668789.0	4281055.0	Roadway/Open Space	-	-	0.05
7177	668799.0	4281055.0	Roadway/Open Space	-	-	0.05
7178	668809.0	4281055.0	Roadway/Open Space	-	-	0.05
7179	668819.0	4281055.0	Roadway/Open Space	-	-	0.06
7180	668829.0	4281055.0	Roadway/Open Space	-	-	0.06
7181	668839.0	4281055.0	Roadway/Open Space	-	-	0.07
7182	668849.0	4281055.0	Roadway/Open Space	-	-	0.07
7183	668859.0	4281055.0	Roadway/Open Space	-	-	0.07
7184	668869.0	4281055.0	Roadway/Open Space	-	-	0.08
7185	668879.0	4281055.0	Roadway/Open Space	-	-	0.08
7186	668889.0	4281055.0	Roadway/Open Space	-	-	0.09
7187	668899.0	4281055.0	Roadway/Open Space	-	-	0.10
7188	668909.0	4281055.0	Roadway/Open Space	-	-	0.11
7189	668919.0	4281055.0	Roadway/Open Space	-	-	0.12
7190	668929.0	4281055.0	Roadway/Open Space	-	-	0.13
7191	668939.0	4281055.0	Roadway/Open Space	-	-	0.15
7192	668949.0	4281055.0	Roadway/Open Space	-	-	0.17
7193	668959.0	4281055.0	Roadway/Open Space	-	-	0.20
7211	669299.0	4281055.0	Roadway/Open Space	-	-	0.06
7212	669309.0	4281055.0	Roadway/Open Space	-	-	0.06
7213	669319.0	4281055.0	Roadway/Open Space	-	-	0.06
7214	669329.0	4281055.0	Roadway/Open Space	-	-	0.06
7215	669339.0	4281055.0	Roadway/Open Space	-	-	0.06
7216	669349.0	4281055.0	Roadway/Open Space	-	-	0.06
7217	669359.0	4281055.0	Roadway/Open Space	-	-	0.06
7218	669369.0	4281055.0	Roadway/Open Space	-	-	0.06
7219	669379.0	4281055.0	Roadway/Open Space	-	-	0.06
7220	669389.0	4281055.0	Roadway/Open Space	-	-	0.05
7221	669399.0	4281055.0	Roadway/Open Space	-	-	0.05
7222	669409.0	4281055.0	Roadway/Open Space	-	-	0.05
7223	669419.0	4281055.0	Roadway/Open Space	-	-	0.05
7224	669429.0	4281055.0	Roadway/Open Space	-	-	0.05
7225	669439.0	4281055.0	Roadway/Open Space	-	-	0.05
7226	669449.0	4281055.0	Roadway/Open Space	-	-	0.05
7227	669459.0	4281055.0	Roadway/Open Space	-	-	0.04
7228	669469.0	4281055.0	Roadway/Open Space	-	-	0.04
7229	669479.0	4281055.0	Roadway/Open Space	-	-	0.04
7230	669489.0	4281055.0	Roadway/Open Space	-	-	0.04
7231	669499.0	4281055.0	Roadway/Open Space	-	-	0.04
7232	669509.0	4281055.0	Roadway/Open Space	-	-	0.04
7233	669519.0	4281055.0	Roadway/Open Space	-	-	0.04
7234	669529.0	4281055.0	Roadway/Open Space	-	-	0.04
7235	669539.0	4281055.0	Roadway/Open Space	-	-	0.03
7236	668499.0	4281065.0	Residential	0.07	0.0003	0.01
7237	668509.0	4281065.0	Residential	0.08	0.0003	0.01
7238	668519.0	4281065.0	Residential	0.08	0.0003	0.01
7239	668529.0	4281065.0	Residential	0.09	0.0003	0.01
7240	668539.0	4281065.0	Roadway/Open Space	-	-	0.01
7241	668549.0	4281065.0	Roadway/Open Space	-	-	0.01
7242	668559.0	4281065.0	Roadway/Open Space	-	-	0.01
7243	668569.0	4281065.0	Roadway/Open Space	-	-	0.01
7244	668579.0	4281065.0	Roadway/Open Space	-	-	0.01
7245	668589.0	4281065.0	Residential	0.15	0.001	0.01
7246	668599.0	4281065.0	Residential	0.18	0.001	0.02
7247	668609.0	4281065.0	Residential	0.20	0.001	0.02
7248	668619.0	4281065.0	Residential	0.24	0.001	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7249	668629.0	4281065.0	Residential	0.28	0.001	0.03
7250	668639.0	4281065.0	Roadway/Open Space	-	-	0.04
7251	668649.0	4281065.0	Roadway/Open Space	-	-	0.04
7252	668659.0	4281065.0	Roadway/Open Space	-	-	0.04
7253	668669.0	4281065.0	Roadway/Open Space	-	-	0.03
7254	668679.0	4281065.0	Roadway/Open Space	-	-	0.03
7255	668689.0	4281065.0	Roadway/Open Space	-	-	0.03
7256	668699.0	4281065.0	Roadway/Open Space	-	-	0.03
7257	668709.0	4281065.0	Roadway/Open Space	-	-	0.03
7258	668719.0	4281065.0	Roadway/Open Space	-	-	0.03
7259	668729.0	4281065.0	Roadway/Open Space	-	-	0.03
7260	668739.0	4281065.0	Roadway/Open Space	-	-	0.04
7261	668749.0	4281065.0	Roadway/Open Space	-	-	0.04
7262	668759.0	4281065.0	Roadway/Open Space	-	-	0.04
7263	668769.0	4281065.0	Roadway/Open Space	-	-	0.04
7264	668779.0	4281065.0	Roadway/Open Space	-	-	0.05
7265	668789.0	4281065.0	Roadway/Open Space	-	-	0.05
7266	668799.0	4281065.0	Roadway/Open Space	-	-	0.05
7267	668809.0	4281065.0	Roadway/Open Space	-	-	0.05
7268	668819.0	4281065.0	Roadway/Open Space	-	-	0.06
7269	668829.0	4281065.0	Roadway/Open Space	-	-	0.06
7270	668839.0	4281065.0	Roadway/Open Space	-	-	0.06
7271	668849.0	4281065.0	Roadway/Open Space	-	-	0.07
7272	668859.0	4281065.0	Roadway/Open Space	-	-	0.07
7273	668869.0	4281065.0	Roadway/Open Space	-	-	0.08
7274	668879.0	4281065.0	Roadway/Open Space	-	-	0.08
7275	668889.0	4281065.0	Roadway/Open Space	-	-	0.09
7276	668899.0	4281065.0	Roadway/Open Space	-	-	0.10
7277	668909.0	4281065.0	Roadway/Open Space	-	-	0.10
7278	668919.0	4281065.0	Roadway/Open Space	-	-	0.12
7279	668929.0	4281065.0	Roadway/Open Space	-	-	0.13
7280	668939.0	4281065.0	Roadway/Open Space	-	-	0.14
7300	669299.0	4281065.0	Roadway/Open Space	-	-	0.07
7301	669309.0	4281065.0	Roadway/Open Space	-	-	0.06
7302	669319.0	4281065.0	Roadway/Open Space	-	-	0.06
7303	669329.0	4281065.0	Roadway/Open Space	-	-	0.06
7304	669339.0	4281065.0	Roadway/Open Space	-	-	0.06
7305	669349.0	4281065.0	Roadway/Open Space	-	-	0.06
7306	669359.0	4281065.0	Roadway/Open Space	-	-	0.06
7307	669369.0	4281065.0	Roadway/Open Space	-	-	0.06
7308	669379.0	4281065.0	Roadway/Open Space	-	-	0.05
7309	669389.0	4281065.0	Roadway/Open Space	-	-	0.05
7310	669399.0	4281065.0	Roadway/Open Space	-	-	0.05
7311	669409.0	4281065.0	Roadway/Open Space	-	-	0.05
7312	669419.0	4281065.0	Roadway/Open Space	-	-	0.05
7313	669429.0	4281065.0	Roadway/Open Space	-	-	0.05
7314	669439.0	4281065.0	Roadway/Open Space	-	-	0.05
7315	669449.0	4281065.0	Roadway/Open Space	-	-	0.05
7316	669459.0	4281065.0	Roadway/Open Space	-	-	0.04
7317	669469.0	4281065.0	Roadway/Open Space	-	-	0.04
7318	669479.0	4281065.0	Roadway/Open Space	-	-	0.04
7319	669489.0	4281065.0	Roadway/Open Space	-	-	0.04
7320	669499.0	4281065.0	Roadway/Open Space	-	-	0.04
7321	669509.0	4281065.0	Roadway/Open Space	-	-	0.04
7322	669519.0	4281065.0	Roadway/Open Space	-	-	0.04
7323	669529.0	4281065.0	Roadway/Open Space	-	-	0.03
7324	668499.0	4281075.0	Residential	0.07	0.0003	0.01
7325	668509.0	4281075.0	Residential	0.08	0.0003	0.01
7326	668519.0	4281075.0	Residential	0.08	0.0003	0.01
7327	668529.0	4281075.0	Residential	0.09	0.0003	0.01
7328	668539.0	4281075.0	Roadway/Open Space	-	-	0.01
7329	668549.0	4281075.0	Roadway/Open Space	-	-	0.01
7330	668559.0	4281075.0	Roadway/Open Space	-	-	0.01
7331	668569.0	4281075.0	Roadway/Open Space	-	-	0.01
7332	668579.0	4281075.0	Residential	0.14	0.001	0.01
7333	668589.0	4281075.0	Residential	0.16	0.001	0.01
7334	668599.0	4281075.0	Residential	0.18	0.001	0.02
7335	668609.0	4281075.0	Residential	0.21	0.001	0.02
7336	668619.0	4281075.0	Residential	0.25	0.001	0.03
7337	668629.0	4281075.0	Residential	0.29	0.001	0.03
7338	668639.0	4281075.0	Roadway/Open Space	-	-	0.04
7339	668649.0	4281075.0	Roadway/Open Space	-	-	0.04
7340	668659.0	4281075.0	Roadway/Open Space	-	-	0.04
7341	668669.0	4281075.0	Roadway/Open Space	-	-	0.03
7342	668679.0	4281075.0	Roadway/Open Space	-	-	0.03
7343	668689.0	4281075.0	Roadway/Open Space	-	-	0.03
7344	668699.0	4281075.0	Roadway/Open Space	-	-	0.03
7345	668709.0	4281075.0	Roadway/Open Space	-	-	0.03
7346	668719.0	4281075.0	Roadway/Open Space	-	-	0.03
7347	668729.0	4281075.0	Roadway/Open Space	-	-	0.03
7348	668739.0	4281075.0	Roadway/Open Space	-	-	0.04
7349	668749.0	4281075.0	Roadway/Open Space	-	-	0.04
7350	668759.0	4281075.0	Roadway/Open Space	-	-	0.04
7351	668769.0	4281075.0	Roadway/Open Space	-	-	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7352	668779.0	4281075.0	Roadway/Open Space	-	-	0.05
7353	668789.0	4281075.0	Roadway/Open Space	-	-	0.05
7354	668799.0	4281075.0	Roadway/Open Space	-	-	0.05
7355	668809.0	4281075.0	Roadway/Open Space	-	-	0.05
7356	668819.0	4281075.0	Roadway/Open Space	-	-	0.06
7357	668829.0	4281075.0	Roadway/Open Space	-	-	0.06
7358	668839.0	4281075.0	Roadway/Open Space	-	-	0.06
7359	668849.0	4281075.0	Roadway/Open Space	-	-	0.07
7360	668859.0	4281075.0	Roadway/Open Space	-	-	0.07
7361	668869.0	4281075.0	Roadway/Open Space	-	-	0.08
7362	668879.0	4281075.0	Roadway/Open Space	-	-	0.08
7363	668889.0	4281075.0	Roadway/Open Space	-	-	0.09
7364	668899.0	4281075.0	Roadway/Open Space	-	-	0.10
7365	668909.0	4281075.0	Roadway/Open Space	-	-	0.10
7366	668919.0	4281075.0	Roadway/Open Space	-	-	0.11
7385	669299.0	4281075.0	Roadway/Open Space	-	-	0.06
7386	669309.0	4281075.0	Roadway/Open Space	-	-	0.06
7387	669319.0	4281075.0	Roadway/Open Space	-	-	0.06
7388	669329.0	4281075.0	Roadway/Open Space	-	-	0.06
7389	669339.0	4281075.0	Roadway/Open Space	-	-	0.06
7390	669349.0	4281075.0	Roadway/Open Space	-	-	0.06
7391	669359.0	4281075.0	Roadway/Open Space	-	-	0.06
7392	669369.0	4281075.0	Roadway/Open Space	-	-	0.06
7393	669379.0	4281075.0	Roadway/Open Space	-	-	0.05
7394	669389.0	4281075.0	Roadway/Open Space	-	-	0.05
7395	669399.0	4281075.0	Roadway/Open Space	-	-	0.05
7396	669409.0	4281075.0	Roadway/Open Space	-	-	0.05
7397	669419.0	4281075.0	Roadway/Open Space	-	-	0.05
7398	669429.0	4281075.0	Roadway/Open Space	-	-	0.05
7399	669439.0	4281075.0	Roadway/Open Space	-	-	0.05
7400	669449.0	4281075.0	Roadway/Open Space	-	-	0.05
7401	669459.0	4281075.0	Roadway/Open Space	-	-	0.04
7402	669469.0	4281075.0	Roadway/Open Space	-	-	0.04
7403	669479.0	4281075.0	Roadway/Open Space	-	-	0.04
7404	669489.0	4281075.0	Roadway/Open Space	-	-	0.04
7405	669499.0	4281075.0	Roadway/Open Space	-	-	0.04
7406	669509.0	4281075.0	Roadway/Open Space	-	-	0.04
7407	669519.0	4281075.0	Roadway/Open Space	-	-	0.04
7408	669529.0	4281075.0	Roadway/Open Space	-	-	0.03
7409	668499.0	4281085.0	Residential	0.07	0.0003	0.01
7410	668509.0	4281085.0	Residential	0.08	0.0003	0.01
7411	668519.0	4281085.0	Residential	0.08	0.0003	0.01
7412	668529.0	4281085.0	Roadway/Open Space	-	-	0.01
7413	668539.0	4281085.0	Roadway/Open Space	-	-	0.01
7414	668549.0	4281085.0	Roadway/Open Space	-	-	0.01
7415	668559.0	4281085.0	Roadway/Open Space	-	-	0.01
7416	668569.0	4281085.0	Roadway/Open Space	-	-	0.01
7417	668579.0	4281085.0	Residential	0.14	0.001	0.01
7418	668589.0	4281085.0	Residential	0.16	0.001	0.02
7419	668599.0	4281085.0	Residential	0.18	0.001	0.02
7420	668609.0	4281085.0	Residential	0.21	0.001	0.02
7421	668619.0	4281085.0	Residential	0.25	0.001	0.03
7422	668629.0	4281085.0	Roadway/Open Space	-	-	0.03
7423	668639.0	4281085.0	Roadway/Open Space	-	-	0.04
7424	668649.0	4281085.0	Roadway/Open Space	-	-	0.04
7425	668659.0	4281085.0	Roadway/Open Space	-	-	0.04
7426	668669.0	4281085.0	Roadway/Open Space	-	-	0.03
7427	668679.0	4281085.0	Roadway/Open Space	-	-	0.03
7428	668689.0	4281085.0	Roadway/Open Space	-	-	0.03
7429	668699.0	4281085.0	Roadway/Open Space	-	-	0.03
7430	668709.0	4281085.0	Roadway/Open Space	-	-	0.03
7431	668719.0	4281085.0	Roadway/Open Space	-	-	0.03
7432	668729.0	4281085.0	Roadway/Open Space	-	-	0.03
7433	668739.0	4281085.0	Roadway/Open Space	-	-	0.04
7434	668749.0	4281085.0	Roadway/Open Space	-	-	0.04
7435	668759.0	4281085.0	Roadway/Open Space	-	-	0.04
7436	668769.0	4281085.0	Roadway/Open Space	-	-	0.04
7437	668779.0	4281085.0	Roadway/Open Space	-	-	0.04
7438	668789.0	4281085.0	Roadway/Open Space	-	-	0.05
7439	668799.0	4281085.0	Roadway/Open Space	-	-	0.05
7440	668809.0	4281085.0	Roadway/Open Space	-	-	0.05
7441	668819.0	4281085.0	Roadway/Open Space	-	-	0.05
7442	668829.0	4281085.0	Roadway/Open Space	-	-	0.06
7443	668839.0	4281085.0	Roadway/Open Space	-	-	0.06
7444	668849.0	4281085.0	Roadway/Open Space	-	-	0.07
7445	668859.0	4281085.0	Roadway/Open Space	-	-	0.07
7446	668869.0	4281085.0	Roadway/Open Space	-	-	0.08
7447	668879.0	4281085.0	Roadway/Open Space	-	-	0.08
7448	668889.0	4281085.0	Roadway/Open Space	-	-	0.09
7449	668899.0	4281085.0	Roadway/Open Space	-	-	0.10
7468	669289.0	4281085.0	Roadway/Open Space	-	-	0.06
7469	669299.0	4281085.0	Roadway/Open Space	-	-	0.06
7470	669309.0	4281085.0	Roadway/Open Space	-	-	0.06
7471	669319.0	4281085.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7472	669329.0	4281085.0	Roadway/Open Space	-	-	0.06
7473	669339.0	4281085.0	Roadway/Open Space	-	-	0.06
7474	669349.0	4281085.0	Roadway/Open Space	-	-	0.06
7475	669359.0	4281085.0	Roadway/Open Space	-	-	0.05
7476	669369.0	4281085.0	Roadway/Open Space	-	-	0.05
7477	669379.0	4281085.0	Roadway/Open Space	-	-	0.05
7478	669389.0	4281085.0	Roadway/Open Space	-	-	0.05
7479	669399.0	4281085.0	Roadway/Open Space	-	-	0.05
7480	669409.0	4281085.0	Roadway/Open Space	-	-	0.05
7481	669419.0	4281085.0	Roadway/Open Space	-	-	0.05
7482	669429.0	4281085.0	Roadway/Open Space	-	-	0.05
7483	669439.0	4281085.0	Roadway/Open Space	-	-	0.05
7484	669449.0	4281085.0	Roadway/Open Space	-	-	0.04
7485	669459.0	4281085.0	Roadway/Open Space	-	-	0.04
7486	669469.0	4281085.0	Roadway/Open Space	-	-	0.04
7487	669479.0	4281085.0	Roadway/Open Space	-	-	0.04
7488	669489.0	4281085.0	Roadway/Open Space	-	-	0.04
7489	669499.0	4281085.0	Roadway/Open Space	-	-	0.04
7490	669509.0	4281085.0	Roadway/Open Space	-	-	0.04
7491	669519.0	4281085.0	Roadway/Open Space	-	-	0.03
7492	669529.0	4281085.0	Roadway/Open Space	-	-	0.03
7493	668499.0	4281095.0	Residential	0.08	0.0003	0.01
7494	668509.0	4281095.0	Residential	0.08	0.0003	0.01
7495	668519.0	4281095.0	Roadway/Open Space	-	-	0.01
7496	668529.0	4281095.0	Roadway/Open Space	-	-	0.01
7497	668539.0	4281095.0	Roadway/Open Space	-	-	0.01
7498	668549.0	4281095.0	Roadway/Open Space	-	-	0.01
7499	668559.0	4281095.0	Roadway/Open Space	-	-	0.01
7500	668569.0	4281095.0	Residential	0.13	0.000	0.01
7501	668579.0	4281095.0	Residential	0.15	0.001	0.01
7502	668589.0	4281095.0	Residential	0.17	0.001	0.02
7503	668599.0	4281095.0	Residential	0.19	0.001	0.02
7504	668609.0	4281095.0	Residential	0.22	0.001	0.02
7505	668619.0	4281095.0	Residential	0.26	0.001	0.03
7506	668629.0	4281095.0	Roadway/Open Space	-	-	0.03
7507	668639.0	4281095.0	Roadway/Open Space	-	-	0.04
7508	668649.0	4281095.0	Roadway/Open Space	-	-	0.04
7509	668659.0	4281095.0	Roadway/Open Space	-	-	0.04
7510	668669.0	4281095.0	Roadway/Open Space	-	-	0.03
7511	668679.0	4281095.0	Roadway/Open Space	-	-	0.03
7512	668689.0	4281095.0	Roadway/Open Space	-	-	0.03
7513	668699.0	4281095.0	Roadway/Open Space	-	-	0.03
7514	668709.0	4281095.0	Roadway/Open Space	-	-	0.03
7515	668719.0	4281095.0	Roadway/Open Space	-	-	0.03
7516	668729.0	4281095.0	Roadway/Open Space	-	-	0.03
7517	668739.0	4281095.0	Roadway/Open Space	-	-	0.04
7518	668749.0	4281095.0	Roadway/Open Space	-	-	0.04
7519	668759.0	4281095.0	Roadway/Open Space	-	-	0.04
7520	668769.0	4281095.0	Roadway/Open Space	-	-	0.04
7521	668779.0	4281095.0	Roadway/Open Space	-	-	0.04
7522	668789.0	4281095.0	Roadway/Open Space	-	-	0.05
7523	668799.0	4281095.0	Roadway/Open Space	-	-	0.05
7524	668809.0	4281095.0	Roadway/Open Space	-	-	0.05
7525	668819.0	4281095.0	Roadway/Open Space	-	-	0.05
7526	668829.0	4281095.0	Roadway/Open Space	-	-	0.06
7527	668839.0	4281095.0	Roadway/Open Space	-	-	0.06
7528	668849.0	4281095.0	Roadway/Open Space	-	-	0.07
7529	668859.0	4281095.0	Roadway/Open Space	-	-	0.07
7530	668869.0	4281095.0	Roadway/Open Space	-	-	0.08
7531	668879.0	4281095.0	Roadway/Open Space	-	-	0.08
7532	668889.0	4281095.0	Roadway/Open Space	-	-	0.09
7547	669289.0	4281095.0	Roadway/Open Space	-	-	0.06
7548	669299.0	4281095.0	Roadway/Open Space	-	-	0.06
7549	669309.0	4281095.0	Roadway/Open Space	-	-	0.06
7550	669319.0	4281095.0	Roadway/Open Space	-	-	0.06
7551	669329.0	4281095.0	Roadway/Open Space	-	-	0.06
7552	669339.0	4281095.0	Roadway/Open Space	-	-	0.05
7553	669349.0	4281095.0	Roadway/Open Space	-	-	0.05
7554	669359.0	4281095.0	Roadway/Open Space	-	-	0.05
7555	669369.0	4281095.0	Roadway/Open Space	-	-	0.05
7556	669379.0	4281095.0	Roadway/Open Space	-	-	0.05
7557	669389.0	4281095.0	Roadway/Open Space	-	-	0.05
7558	669399.0	4281095.0	Roadway/Open Space	-	-	0.05
7559	669409.0	4281095.0	Roadway/Open Space	-	-	0.05
7560	669419.0	4281095.0	Roadway/Open Space	-	-	0.05
7561	669429.0	4281095.0	Roadway/Open Space	-	-	0.05
7562	669439.0	4281095.0	Roadway/Open Space	-	-	0.04
7563	669449.0	4281095.0	Roadway/Open Space	-	-	0.04
7564	669459.0	4281095.0	Roadway/Open Space	-	-	0.04
7565	669469.0	4281095.0	Roadway/Open Space	-	-	0.04
7566	669479.0	4281095.0	Roadway/Open Space	-	-	0.04
7567	669489.0	4281095.0	Roadway/Open Space	-	-	0.04
7568	669499.0	4281095.0	Roadway/Open Space	-	-	0.04
7569	669509.0	4281095.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7570	669519.0	4281095.0	Roadway/Open Space	-	-	0.03
7571	669529.0	4281095.0	Roadway/Open Space	-	-	0.03
7572	668509.0	4281105.0	Roadway/Open Space	-	-	0.01
7573	668519.0	4281105.0	Roadway/Open Space	-	-	0.01
7574	668529.0	4281105.0	Roadway/Open Space	-	-	0.01
7575	668539.0	4281105.0	Roadway/Open Space	-	-	0.01
7576	668549.0	4281105.0	Roadway/Open Space	-	-	0.01
7577	668559.0	4281105.0	Roadway/Open Space	-	-	0.01
7578	668569.0	4281105.0	Residential	0.14	0.000	0.01
7579	668579.0	4281105.0	Residential	0.15	0.001	0.02
7580	668589.0	4281105.0	Residential	0.17	0.001	0.02
7581	668599.0	4281105.0	Residential	0.20	0.001	0.02
7582	668609.0	4281105.0	Residential	0.23	0.001	0.02
7583	668619.0	4281105.0	Roadway/Open Space	-	-	0.03
7584	668629.0	4281105.0	Roadway/Open Space	-	-	0.03
7585	668639.0	4281105.0	Roadway/Open Space	-	-	0.04
7586	668649.0	4281105.0	Roadway/Open Space	-	-	0.04
7587	668659.0	4281105.0	Roadway/Open Space	-	-	0.04
7588	668669.0	4281105.0	Roadway/Open Space	-	-	0.03
7589	668679.0	4281105.0	Roadway/Open Space	-	-	0.03
7590	668689.0	4281105.0	Roadway/Open Space	-	-	0.03
7591	668699.0	4281105.0	Roadway/Open Space	-	-	0.03
7592	668709.0	4281105.0	Roadway/Open Space	-	-	0.03
7593	668719.0	4281105.0	Roadway/Open Space	-	-	0.03
7594	668729.0	4281105.0	Roadway/Open Space	-	-	0.03
7595	668739.0	4281105.0	Roadway/Open Space	-	-	0.04
7596	668749.0	4281105.0	Roadway/Open Space	-	-	0.04
7597	668759.0	4281105.0	Roadway/Open Space	-	-	0.04
7598	668769.0	4281105.0	Roadway/Open Space	-	-	0.04
7599	668779.0	4281105.0	Roadway/Open Space	-	-	0.04
7600	668789.0	4281105.0	Roadway/Open Space	-	-	0.05
7601	668799.0	4281105.0	Roadway/Open Space	-	-	0.05
7602	668809.0	4281105.0	Roadway/Open Space	-	-	0.05
7603	668819.0	4281105.0	Roadway/Open Space	-	-	0.05
7604	668829.0	4281105.0	Roadway/Open Space	-	-	0.06
7605	668839.0	4281105.0	Roadway/Open Space	-	-	0.06
7606	668849.0	4281105.0	Roadway/Open Space	-	-	0.07
7607	668859.0	4281105.0	Roadway/Open Space	-	-	0.07
7608	668869.0	4281105.0	Roadway/Open Space	-	-	0.07
7609	668879.0	4281105.0	Roadway/Open Space	-	-	0.08
7621	669289.0	4281105.0	Roadway/Open Space	-	-	0.06
7622	669299.0	4281105.0	Roadway/Open Space	-	-	0.06
7623	669309.0	4281105.0	Roadway/Open Space	-	-	0.06
7624	669319.0	4281105.0	Roadway/Open Space	-	-	0.06
7625	669329.0	4281105.0	Roadway/Open Space	-	-	0.06
7626	669339.0	4281105.0	Roadway/Open Space	-	-	0.05
7627	669349.0	4281105.0	Roadway/Open Space	-	-	0.05
7628	669359.0	4281105.0	Roadway/Open Space	-	-	0.05
7629	669369.0	4281105.0	Roadway/Open Space	-	-	0.05
7630	669379.0	4281105.0	Roadway/Open Space	-	-	0.05
7631	669389.0	4281105.0	Roadway/Open Space	-	-	0.05
7632	669399.0	4281105.0	Roadway/Open Space	-	-	0.05
7633	669409.0	4281105.0	Roadway/Open Space	-	-	0.05
7634	669419.0	4281105.0	Roadway/Open Space	-	-	0.05
7635	669429.0	4281105.0	Roadway/Open Space	-	-	0.05
7636	669439.0	4281105.0	Roadway/Open Space	-	-	0.04
7637	669449.0	4281105.0	Roadway/Open Space	-	-	0.04
7638	669459.0	4281105.0	Roadway/Open Space	-	-	0.04
7639	669469.0	4281105.0	Roadway/Open Space	-	-	0.04
7640	669479.0	4281105.0	Roadway/Open Space	-	-	0.04
7641	669489.0	4281105.0	Roadway/Open Space	-	-	0.04
7642	669499.0	4281105.0	Roadway/Open Space	-	-	0.04
7643	669509.0	4281105.0	Roadway/Open Space	-	-	0.03
7644	669519.0	4281105.0	Roadway/Open Space	-	-	0.03
7645	669529.0	4281105.0	Roadway/Open Space	-	-	0.03
7646	668509.0	4281115.0	Roadway/Open Space	-	-	0.01
7647	668519.0	4281115.0	Roadway/Open Space	-	-	0.01
7648	668529.0	4281115.0	Roadway/Open Space	-	-	0.01
7649	668539.0	4281115.0	Roadway/Open Space	-	-	0.01
7650	668549.0	4281115.0	Roadway/Open Space	-	-	0.01
7651	668559.0	4281115.0	Residential	0.13	0.000	0.01
7652	668569.0	4281115.0	Residential	0.14	0.001	0.01
7653	668579.0	4281115.0	Residential	0.16	0.001	0.02
7654	668589.0	4281115.0	Residential	0.18	0.001	0.02
7655	668599.0	4281115.0	Residential	0.20	0.001	0.02
7656	668609.0	4281115.0	Roadway/Open Space	-	-	0.02
7657	668619.0	4281115.0	Roadway/Open Space	-	-	0.03
7658	668629.0	4281115.0	Roadway/Open Space	-	-	0.03
7659	668639.0	4281115.0	Roadway/Open Space	-	-	0.04
7660	668649.0	4281115.0	Roadway/Open Space	-	-	0.04
7661	668659.0	4281115.0	Roadway/Open Space	-	-	0.03
7662	668669.0	4281115.0	Roadway/Open Space	-	-	0.03
7663	668679.0	4281115.0	Roadway/Open Space	-	-	0.03
7664	668689.0	4281115.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7665	668699.0	4281115.0	Roadway/Open Space	-	-	0.03
7666	668709.0	4281115.0	Roadway/Open Space	-	-	0.03
7667	668719.0	4281115.0	Roadway/Open Space	-	-	0.03
7668	668729.0	4281115.0	Roadway/Open Space	-	-	0.03
7669	668739.0	4281115.0	Roadway/Open Space	-	-	0.04
7670	668749.0	4281115.0	Roadway/Open Space	-	-	0.04
7671	668759.0	4281115.0	Roadway/Open Space	-	-	0.04
7672	668769.0	4281115.0	Roadway/Open Space	-	-	0.04
7673	668779.0	4281115.0	Roadway/Open Space	-	-	0.04
7674	668789.0	4281115.0	Roadway/Open Space	-	-	0.05
7675	668799.0	4281115.0	Roadway/Open Space	-	-	0.05
7676	668809.0	4281115.0	Roadway/Open Space	-	-	0.05
7677	668819.0	4281115.0	Roadway/Open Space	-	-	0.05
7678	668829.0	4281115.0	Roadway/Open Space	-	-	0.06
7679	668839.0	4281115.0	Roadway/Open Space	-	-	0.06
7680	668849.0	4281115.0	Roadway/Open Space	-	-	0.06
7681	668859.0	4281115.0	Roadway/Open Space	-	-	0.07
7682	668869.0	4281115.0	Roadway/Open Space	-	-	0.07
7683	668879.0	4281115.0	Roadway/Open Space	-	-	0.08
7693	669289.0	4281115.0	Roadway/Open Space	-	-	0.06
7694	669299.0	4281115.0	Roadway/Open Space	-	-	0.05
7695	669309.0	4281115.0	Roadway/Open Space	-	-	0.05
7696	669319.0	4281115.0	Roadway/Open Space	-	-	0.05
7697	669329.0	4281115.0	Roadway/Open Space	-	-	0.05
7698	669339.0	4281115.0	Roadway/Open Space	-	-	0.05
7699	669349.0	4281115.0	Roadway/Open Space	-	-	0.05
7700	669359.0	4281115.0	Roadway/Open Space	-	-	0.05
7701	669369.0	4281115.0	Roadway/Open Space	-	-	0.05
7702	669379.0	4281115.0	Roadway/Open Space	-	-	0.05
7703	669389.0	4281115.0	Roadway/Open Space	-	-	0.05
7704	669399.0	4281115.0	Roadway/Open Space	-	-	0.05
7705	669409.0	4281115.0	Roadway/Open Space	-	-	0.05
7706	669419.0	4281115.0	Roadway/Open Space	-	-	0.05
7707	669429.0	4281115.0	Roadway/Open Space	-	-	0.04
7708	669439.0	4281115.0	Roadway/Open Space	-	-	0.04
7709	669449.0	4281115.0	Roadway/Open Space	-	-	0.04
7710	669459.0	4281115.0	Roadway/Open Space	-	-	0.04
7711	669469.0	4281115.0	Roadway/Open Space	-	-	0.04
7712	669479.0	4281115.0	Roadway/Open Space	-	-	0.04
7713	669489.0	4281115.0	Roadway/Open Space	-	-	0.04
7714	669499.0	4281115.0	Roadway/Open Space	-	-	0.03
7715	669509.0	4281115.0	Roadway/Open Space	-	-	0.03
7716	669519.0	4281115.0	Roadway/Open Space	-	-	0.03
7717	669529.0	4281115.0	Roadway/Open Space	-	-	0.03
7718	668509.0	4281125.0	Roadway/Open Space	-	-	0.01
7719	668519.0	4281125.0	Roadway/Open Space	-	-	0.01
7720	668529.0	4281125.0	Roadway/Open Space	-	-	0.01
7721	668539.0	4281125.0	Roadway/Open Space	-	-	0.01
7722	668549.0	4281125.0	Roadway/Open Space	-	-	0.01
7723	668559.0	4281125.0	Residential	0.13	0.000	0.01
7724	668569.0	4281125.0	Residential	0.15	0.001	0.02
7725	668579.0	4281125.0	Residential	0.17	0.001	0.02
7726	668589.0	4281125.0	Residential	0.19	0.001	0.02
7727	668599.0	4281125.0	Residential	0.21	0.001	0.02
7728	668609.0	4281125.0	Roadway/Open Space	-	-	0.03
7729	668619.0	4281125.0	Roadway/Open Space	-	-	0.03
7730	668629.0	4281125.0	Roadway/Open Space	-	-	0.03
7731	668639.0	4281125.0	Roadway/Open Space	-	-	0.04
7732	668649.0	4281125.0	Roadway/Open Space	-	-	0.04
7733	668659.0	4281125.0	Roadway/Open Space	-	-	0.03
7734	668669.0	4281125.0	Roadway/Open Space	-	-	0.03
7735	668679.0	4281125.0	Roadway/Open Space	-	-	0.03
7736	668689.0	4281125.0	Roadway/Open Space	-	-	0.03
7737	668699.0	4281125.0	Roadway/Open Space	-	-	0.03
7738	668709.0	4281125.0	Roadway/Open Space	-	-	0.03
7739	668719.0	4281125.0	Roadway/Open Space	-	-	0.03
7740	668729.0	4281125.0	Roadway/Open Space	-	-	0.03
7741	668739.0	4281125.0	Roadway/Open Space	-	-	0.04
7742	668749.0	4281125.0	Roadway/Open Space	-	-	0.04
7743	668759.0	4281125.0	Roadway/Open Space	-	-	0.04
7744	668769.0	4281125.0	Roadway/Open Space	-	-	0.04
7745	668779.0	4281125.0	Roadway/Open Space	-	-	0.04
7746	668789.0	4281125.0	Roadway/Open Space	-	-	0.04
7747	668799.0	4281125.0	Roadway/Open Space	-	-	0.06
7748	668809.0	4281125.0	Roadway/Open Space	-	-	0.06
7749	668819.0	4281125.0	Roadway/Open Space	-	-	0.06
7750	668829.0	4281125.0	Roadway/Open Space	-	-	0.07
7751	668839.0	4281125.0	Roadway/Open Space	-	-	0.06
7752	668849.0	4281125.0	Roadway/Open Space	-	-	0.06
7753	668859.0	4281125.0	Roadway/Open Space	-	-	0.07
7754	668869.0	4281125.0	Roadway/Open Space	-	-	0.07
7755	668879.0	4281125.0	Roadway/Open Space	-	-	0.08
7761	669289.0	4281125.0	Roadway/Open Space	-	-	0.05
7762	669299.0	4281125.0	Roadway/Open Space	-	-	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7763	669309.0	4281125.0	Residential	1.24	0.005	0.05
7764	669319.0	4281125.0	Residential	1.17	0.004	0.05
7765	669329.0	4281125.0	Residential	1.12	0.004	0.05
7766	669339.0	4281125.0	Residential	1.05	0.004	0.04
7767	669349.0	4281125.0	Roadway/Open Space	-	-	0.04
7768	669359.0	4281125.0	Roadway/Open Space	-	-	0.04
7769	669369.0	4281125.0	Roadway/Open Space	-	-	0.04
7770	669379.0	4281125.0	Roadway/Open Space	-	-	0.05
7771	669389.0	4281125.0	Roadway/Open Space	-	-	0.05
7772	669399.0	4281125.0	Roadway/Open Space	-	-	0.05
7773	669409.0	4281125.0	Roadway/Open Space	-	-	0.05
7774	669419.0	4281125.0	Roadway/Open Space	-	-	0.05
7775	669429.0	4281125.0	Roadway/Open Space	-	-	0.04
7776	669439.0	4281125.0	Roadway/Open Space	-	-	0.04
7777	669449.0	4281125.0	Roadway/Open Space	-	-	0.04
7778	669459.0	4281125.0	Roadway/Open Space	-	-	0.04
7779	669469.0	4281125.0	Roadway/Open Space	-	-	0.04
7780	669479.0	4281125.0	Roadway/Open Space	-	-	0.04
7781	669489.0	4281125.0	Roadway/Open Space	-	-	0.04
7782	669499.0	4281125.0	Roadway/Open Space	-	-	0.03
7783	669509.0	4281125.0	Roadway/Open Space	-	-	0.03
7784	669519.0	4281125.0	Roadway/Open Space	-	-	0.03
7785	669529.0	4281125.0	Roadway/Open Space	-	-	0.03
7786	668509.0	4281135.0	Roadway/Open Space	-	-	0.01
7787	668519.0	4281135.0	Roadway/Open Space	-	-	0.01
7788	668529.0	4281135.0	Roadway/Open Space	-	-	0.01
7789	668539.0	4281135.0	Roadway/Open Space	-	-	0.01
7790	668549.0	4281135.0	Residential	0.13	0.000	0.01
7791	668559.0	4281135.0	Residential	0.14	0.001	0.02
7792	668569.0	4281135.0	Residential	0.16	0.001	0.02
7793	668579.0	4281135.0	Residential	0.18	0.001	0.02
7794	668589.0	4281135.0	Residential	0.20	0.001	0.02
7795	668599.0	4281135.0	Roadway/Open Space	-	-	0.02
7796	668609.0	4281135.0	Roadway/Open Space	-	-	0.03
7797	668619.0	4281135.0	Roadway/Open Space	-	-	0.03
7798	668629.0	4281135.0	Roadway/Open Space	-	-	0.03
7799	668639.0	4281135.0	Roadway/Open Space	-	-	0.04
7800	668649.0	4281135.0	Roadway/Open Space	-	-	0.04
7801	668659.0	4281135.0	Roadway/Open Space	-	-	0.03
7802	668669.0	4281135.0	Roadway/Open Space	-	-	0.03
7803	668679.0	4281135.0	Roadway/Open Space	-	-	0.03
7804	668689.0	4281135.0	Roadway/Open Space	-	-	0.03
7805	668699.0	4281135.0	Roadway/Open Space	-	-	0.03
7806	668709.0	4281135.0	Roadway/Open Space	-	-	0.03
7807	668719.0	4281135.0	Roadway/Open Space	-	-	0.03
7808	668729.0	4281135.0	Roadway/Open Space	-	-	0.03
7809	668739.0	4281135.0	Roadway/Open Space	-	-	0.04
7810	668749.0	4281135.0	Roadway/Open Space	-	-	0.04
7811	668759.0	4281135.0	Roadway/Open Space	-	-	0.04
7812	668769.0	4281135.0	Roadway/Open Space	-	-	0.04
7813	668779.0	4281135.0	Roadway/Open Space	-	-	0.04
7814	668789.0	4281135.0	Roadway/Open Space	-	-	0.06
7815	668799.0	4281135.0	Roadway/Open Space	-	-	0.06
7816	668809.0	4281135.0	Roadway/Open Space	-	-	0.06
7817	668819.0	4281135.0	Roadway/Open Space	-	-	0.07
7818	668829.0	4281135.0	Roadway/Open Space	-	-	0.07
7819	668839.0	4281135.0	Roadway/Open Space	-	-	0.06
7820	668849.0	4281135.0	Roadway/Open Space	-	-	0.06
7821	668859.0	4281135.0	Roadway/Open Space	-	-	0.07
7822	668869.0	4281135.0	Roadway/Open Space	-	-	0.07
7823	668879.0	4281135.0	Roadway/Open Space	-	-	0.08
7826	669289.0	4281135.0	Roadway/Open Space	-	-	0.05
7827	669299.0	4281135.0	Roadway/Open Space	-	-	0.05
7828	669309.0	4281135.0	Residential	1.19	0.004	0.04
7829	669319.0	4281135.0	Residential	1.12	0.004	0.04
7830	669329.0	4281135.0	Residential	1.05	0.004	0.04
7831	669339.0	4281135.0	Residential	0.99	0.004	0.04
7832	669349.0	4281135.0	Residential	0.95	0.003	0.04
7833	669359.0	4281135.0	Roadway/Open Space	-	-	0.04
7834	669369.0	4281135.0	Residential	0.91	0.003	0.04
7835	669379.0	4281135.0	Residential	0.90	0.003	0.04
7836	669389.0	4281135.0	Residential	0.89	0.003	0.05
7837	669399.0	4281135.0	Residential	0.88	0.003	0.05
7838	669409.0	4281135.0	Residential	0.84	0.003	0.05
7839	669419.0	4281135.0	Residential	0.79	0.003	0.04
7840	669429.0	4281135.0	Residential	0.74	0.003	0.04
7841	669439.0	4281135.0	Roadway/Open Space	-	-	0.04
7842	669449.0	4281135.0	Roadway/Open Space	-	-	0.04
7843	669459.0	4281135.0	Roadway/Open Space	-	-	0.04
7844	669469.0	4281135.0	Roadway/Open Space	-	-	0.04
7845	669479.0	4281135.0	Roadway/Open Space	-	-	0.04
7846	669489.0	4281135.0	Roadway/Open Space	-	-	0.03
7847	669499.0	4281135.0	Roadway/Open Space	-	-	0.03
7848	669509.0	4281135.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7849	669519.0	4281135.0	Roadway/Open Space	-	-	0.03
7850	669529.0	4281135.0	Roadway/Open Space	-	-	0.02
7851	668509.0	4281145.0	Roadway/Open Space	-	-	0.01
7852	668519.0	4281145.0	Roadway/Open Space	-	-	0.01
7853	668529.0	4281145.0	Roadway/Open Space	-	-	0.01
7854	668539.0	4281145.0	Roadway/Open Space	-	-	0.01
7855	668549.0	4281145.0	Residential	0.13	0.000	0.01
7856	668559.0	4281145.0	Residential	0.15	0.001	0.02
7857	668569.0	4281145.0	Residential	0.17	0.001	0.02
7858	668579.0	4281145.0	Residential	0.19	0.001	0.02
7859	668589.0	4281145.0	Residential	0.21	0.001	0.02
7860	668599.0	4281145.0	Roadway/Open Space	-	-	0.03
7861	668609.0	4281145.0	Roadway/Open Space	-	-	0.03
7862	668619.0	4281145.0	Roadway/Open Space	-	-	0.03
7863	668629.0	4281145.0	Roadway/Open Space	-	-	0.03
7864	668639.0	4281145.0	Roadway/Open Space	-	-	0.03
7865	668649.0	4281145.0	Roadway/Open Space	-	-	0.03
7866	668659.0	4281145.0	Roadway/Open Space	-	-	0.03
7867	668669.0	4281145.0	Roadway/Open Space	-	-	0.03
7868	668679.0	4281145.0	Roadway/Open Space	-	-	0.03
7869	668689.0	4281145.0	Roadway/Open Space	-	-	0.03
7870	668699.0	4281145.0	Roadway/Open Space	-	-	0.03
7871	668709.0	4281145.0	Roadway/Open Space	-	-	0.03
7872	668719.0	4281145.0	Roadway/Open Space	-	-	0.03
7873	668729.0	4281145.0	Roadway/Open Space	-	-	0.03
7874	668739.0	4281145.0	Roadway/Open Space	-	-	0.04
7875	668749.0	4281145.0	Roadway/Open Space	-	-	0.04
7876	668759.0	4281145.0	Roadway/Open Space	-	-	0.04
7877	668769.0	4281145.0	Roadway/Open Space	-	-	0.04
7878	668779.0	4281145.0	Roadway/Open Space	-	-	0.05
7879	668789.0	4281145.0	Roadway/Open Space	-	-	0.06
7880	668799.0	4281145.0	Roadway/Open Space	-	-	0.06
7881	668809.0	4281145.0	Roadway/Open Space	-	-	0.06
7882	668819.0	4281145.0	Roadway/Open Space	-	-	0.06
7883	668829.0	4281145.0	Roadway/Open Space	-	-	0.07
7884	668839.0	4281145.0	Roadway/Open Space	-	-	0.07
7885	668849.0	4281145.0	Roadway/Open Space	-	-	0.06
7886	668859.0	4281145.0	Roadway/Open Space	-	-	0.06
7887	668869.0	4281145.0	Roadway/Open Space	-	-	0.07
7888	668879.0	4281145.0	Roadway/Open Space	-	-	0.08
7889	669289.0	4281145.0	Roadway/Open Space	-	-	0.05
7890	669299.0	4281145.0	Roadway/Open Space	-	-	0.05
7891	669309.0	4281145.0	Residential	1.17	0.004	0.04
7892	669319.0	4281145.0	Residential	1.09	0.004	0.04
7893	669329.0	4281145.0	Residential	1.02	0.004	0.04
7894	669339.0	4281145.0	Residential	0.96	0.003	0.04
7895	669349.0	4281145.0	Residential	0.91	0.003	0.04
7896	669359.0	4281145.0	Roadway/Open Space	-	-	0.04
7897	669369.0	4281145.0	Residential	0.87	0.003	0.04
7898	669379.0	4281145.0	Residential	0.86	0.003	0.04
7899	669389.0	4281145.0	Residential	0.85	0.003	0.04
7900	669399.0	4281145.0	Residential	0.84	0.003	0.04
7901	669409.0	4281145.0	Residential	0.81	0.003	0.04
7902	669419.0	4281145.0	Residential	0.77	0.003	0.04
7903	669429.0	4281145.0	Residential	0.73	0.003	0.04
7904	669439.0	4281145.0	Residential	0.70	0.003	0.04
7905	669449.0	4281145.0	Roadway/Open Space	-	-	0.04
7906	669459.0	4281145.0	Roadway/Open Space	-	-	0.04
7907	669469.0	4281145.0	Roadway/Open Space	-	-	0.04
7908	669479.0	4281145.0	Roadway/Open Space	-	-	0.04
7909	669489.0	4281145.0	Roadway/Open Space	-	-	0.03
7910	669499.0	4281145.0	Roadway/Open Space	-	-	0.03
7911	669509.0	4281145.0	Roadway/Open Space	-	-	0.03
7912	669519.0	4281145.0	Roadway/Open Space	-	-	0.02
7913	668519.0	4281155.0	Roadway/Open Space	-	-	0.01
7914	668529.0	4281155.0	Roadway/Open Space	-	-	0.01
7915	668539.0	4281155.0	Residential	0.12	0.000	0.01
7916	668549.0	4281155.0	Residential	0.13	0.000	0.01
7917	668559.0	4281155.0	Residential	0.15	0.001	0.02
7918	668569.0	4281155.0	Residential	0.18	0.001	0.02
7919	668579.0	4281155.0	Residential	0.20	0.001	0.02
7920	668589.0	4281155.0	Roadway/Open Space	-	-	0.02
7921	668599.0	4281155.0	Roadway/Open Space	-	-	0.03
7922	668609.0	4281155.0	Roadway/Open Space	-	-	0.03
7923	668619.0	4281155.0	Roadway/Open Space	-	-	0.03
7924	668629.0	4281155.0	Roadway/Open Space	-	-	0.03
7925	668639.0	4281155.0	Roadway/Open Space	-	-	0.03
7926	668649.0	4281155.0	Roadway/Open Space	-	-	0.03
7927	668659.0	4281155.0	Roadway/Open Space	-	-	0.03
7928	668669.0	4281155.0	Roadway/Open Space	-	-	0.03
7929	668679.0	4281155.0	Roadway/Open Space	-	-	0.03
7930	668689.0	4281155.0	Roadway/Open Space	-	-	0.03
7931	668699.0	4281155.0	Roadway/Open Space	-	-	0.03
7932	668709.0	4281155.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
7933	668719.0	4281155.0	Roadway/Open Space	-	-	0.03
7934	668729.0	4281155.0	Roadway/Open Space	-	-	0.03
7935	668739.0	4281155.0	Roadway/Open Space	-	-	0.04
7936	668749.0	4281155.0	Roadway/Open Space	-	-	0.04
7937	668759.0	4281155.0	Roadway/Open Space	-	-	0.04
7938	668769.0	4281155.0	Roadway/Open Space	-	-	0.05
7939	668779.0	4281155.0	Roadway/Open Space	-	-	0.05
7940	668789.0	4281155.0	Roadway/Open Space	-	-	0.06
7941	668799.0	4281155.0	Roadway/Open Space	-	-	0.06
7942	668809.0	4281155.0	Roadway/Open Space	-	-	0.06
7943	668819.0	4281155.0	Roadway/Open Space	-	-	0.06
7944	668829.0	4281155.0	Roadway/Open Space	-	-	0.07
7945	668839.0	4281155.0	Roadway/Open Space	-	-	0.07
7946	668849.0	4281155.0	Roadway/Open Space	-	-	0.07
7947	668859.0	4281155.0	Roadway/Open Space	-	-	0.07
7948	668869.0	4281155.0	Roadway/Open Space	-	-	0.07
7949	668879.0	4281155.0	Roadway/Open Space	-	-	0.08
7950	669289.0	4281155.0	Roadway/Open Space	-	-	0.05
7951	669299.0	4281155.0	Residential	1.25	0.005	0.05
7952	669309.0	4281155.0	Residential	1.16	0.004	0.04
7953	669319.0	4281155.0	Residential	1.07	0.004	0.04
7954	669329.0	4281155.0	Residential	1.00	0.004	0.04
7955	669339.0	4281155.0	Residential	0.94	0.003	0.03
7956	669349.0	4281155.0	Roadway/Open Space	-	-	0.03
7957	669359.0	4281155.0	Roadway/Open Space	-	-	0.03
7958	669369.0	4281155.0	Residential	0.84	0.003	0.04
7959	669379.0	4281155.0	Residential	0.83	0.003	0.04
7960	669389.0	4281155.0	Residential	0.82	0.003	0.04
7961	669399.0	4281155.0	Residential	0.80	0.003	0.04
7962	669409.0	4281155.0	Residential	0.78	0.003	0.04
7963	669419.0	4281155.0	Residential	0.74	0.003	0.04
7964	669429.0	4281155.0	Residential	0.72	0.003	0.04
7965	669439.0	4281155.0	Residential	0.69	0.003	0.04
7966	669449.0	4281155.0	Roadway/Open Space	-	-	0.04
7967	669459.0	4281155.0	Roadway/Open Space	-	-	0.04
7968	669469.0	4281155.0	Roadway/Open Space	-	-	0.04
7969	669479.0	4281155.0	Roadway/Open Space	-	-	0.03
7970	669489.0	4281155.0	Roadway/Open Space	-	-	0.03
7971	669499.0	4281155.0	Roadway/Open Space	-	-	0.03
7972	669509.0	4281155.0	Roadway/Open Space	-	-	0.02
7973	669519.0	4281155.0	Roadway/Open Space	-	-	0.02
7974	668519.0	4281165.0	Roadway/Open Space	-	-	0.01
7975	668529.0	4281165.0	Roadway/Open Space	-	-	0.01
7976	668539.0	4281165.0	Residential	0.12	0.000	0.01
7977	668549.0	4281165.0	Residential	0.14	0.001	0.02
7978	668559.0	4281165.0	Residential	0.16	0.001	0.02
7979	668569.0	4281165.0	Residential	0.18	0.001	0.02
7980	668579.0	4281165.0	Residential	0.21	0.001	0.02
7981	668589.0	4281165.0	Roadway/Open Space	-	-	0.03
7982	668599.0	4281165.0	Roadway/Open Space	-	-	0.03
7983	668609.0	4281165.0	Roadway/Open Space	-	-	0.03
7984	668619.0	4281165.0	Roadway/Open Space	-	-	0.03
7985	668629.0	4281165.0	Roadway/Open Space	-	-	0.03
7986	668639.0	4281165.0	Roadway/Open Space	-	-	0.03
7987	668649.0	4281165.0	Roadway/Open Space	-	-	0.02
7988	668659.0	4281165.0	Roadway/Open Space	-	-	0.03
7989	668669.0	4281165.0	Roadway/Open Space	-	-	0.03
7990	668679.0	4281165.0	Roadway/Open Space	-	-	0.03
7991	668689.0	4281165.0	Roadway/Open Space	-	-	0.03
7992	668699.0	4281165.0	Roadway/Open Space	-	-	0.03
7993	668709.0	4281165.0	Roadway/Open Space	-	-	0.03
7994	668719.0	4281165.0	Roadway/Open Space	-	-	0.03
7995	668729.0	4281165.0	Roadway/Open Space	-	-	0.03
7996	668739.0	4281165.0	Roadway/Open Space	-	-	0.03
7997	668749.0	4281165.0	Roadway/Open Space	-	-	0.04
7998	668759.0	4281165.0	Roadway/Open Space	-	-	0.04
7999	668769.0	4281165.0	Roadway/Open Space	-	-	0.05
8000	668779.0	4281165.0	Roadway/Open Space	-	-	0.05
8001	668789.0	4281165.0	Roadway/Open Space	-	-	0.05
8002	668799.0	4281165.0	Roadway/Open Space	-	-	0.06
8003	668809.0	4281165.0	Roadway/Open Space	-	-	0.06
8004	668819.0	4281165.0	Roadway/Open Space	-	-	0.06
8005	668829.0	4281165.0	Roadway/Open Space	-	-	0.07
8006	668839.0	4281165.0	Roadway/Open Space	-	-	0.07
8007	668849.0	4281165.0	Roadway/Open Space	-	-	0.07
8008	668859.0	4281165.0	Roadway/Open Space	-	-	0.07
8009	668869.0	4281165.0	Roadway/Open Space	-	-	0.07
8010	668879.0	4281165.0	Roadway/Open Space	-	-	0.08
8011	669289.0	4281165.0	Roadway/Open Space	-	-	0.05
8012	669299.0	4281165.0	Residential	1.23	0.005	0.05
8013	669309.0	4281165.0	Residential	1.14	0.004	0.05
8014	669319.0	4281165.0	Residential	1.06	0.004	0.04
8015	669329.0	4281165.0	Residential	0.98	0.004	0.04
8016	669339.0	4281165.0	Residential	0.92	0.003	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8017	669349.0	4281165.0	Roadway/Open Space	-	-	0.03
8018	669359.0	4281165.0	Residential	0.84	0.003	0.03
8019	669369.0	4281165.0	Residential	0.82	0.003	0.03
8020	669379.0	4281165.0	Residential	0.81	0.003	0.03
8021	669389.0	4281165.0	Residential	0.79	0.003	0.04
8022	669399.0	4281165.0	Residential	0.77	0.003	0.04
8023	669409.0	4281165.0	Residential	0.75	0.003	0.04
8024	669419.0	4281165.0	Residential	0.72	0.003	0.04
8025	669429.0	4281165.0	Residential	0.69	0.003	0.04
8026	669439.0	4281165.0	Residential	0.66	0.002	0.04
8027	669449.0	4281165.0	Roadway/Open Space	-	-	0.04
8028	669459.0	4281165.0	Roadway/Open Space	-	-	0.03
8029	669469.0	4281165.0	Roadway/Open Space	-	-	0.03
8030	669479.0	4281165.0	Roadway/Open Space	-	-	0.03
8031	669489.0	4281165.0	Roadway/Open Space	-	-	0.03
8032	669499.0	4281165.0	Roadway/Open Space	-	-	0.03
8033	669509.0	4281165.0	Roadway/Open Space	-	-	0.02
8034	669519.0	4281165.0	Roadway/Open Space	-	-	0.02
8035	668519.0	4281175.0	Roadway/Open Space	-	-	0.01
8036	668529.0	4281175.0	Residential	0.12	0.000	0.01
8037	668539.0	4281175.0	Residential	0.13	0.000	0.01
8038	668549.0	4281175.0	Residential	0.14	0.001	0.02
8039	668559.0	4281175.0	Residential	0.17	0.001	0.02
8040	668569.0	4281175.0	Residential	0.19	0.001	0.02
8041	668579.0	4281175.0	Roadway/Open Space	-	-	0.02
8042	668589.0	4281175.0	Roadway/Open Space	-	-	0.03
8043	668599.0	4281175.0	Roadway/Open Space	-	-	0.03
8044	668609.0	4281175.0	Roadway/Open Space	-	-	0.03
8045	668619.0	4281175.0	Roadway/Open Space	-	-	0.03
8046	668629.0	4281175.0	Roadway/Open Space	-	-	0.03
8047	668639.0	4281175.0	Roadway/Open Space	-	-	0.03
8048	668649.0	4281175.0	Roadway/Open Space	-	-	0.02
8049	668659.0	4281175.0	Roadway/Open Space	-	-	0.03
8050	668669.0	4281175.0	Roadway/Open Space	-	-	0.03
8051	668679.0	4281175.0	Roadway/Open Space	-	-	0.03
8052	668689.0	4281175.0	Roadway/Open Space	-	-	0.03
8053	668699.0	4281175.0	Roadway/Open Space	-	-	0.03
8054	668709.0	4281175.0	Roadway/Open Space	-	-	0.03
8055	668719.0	4281175.0	Roadway/Open Space	-	-	0.03
8056	668729.0	4281175.0	Roadway/Open Space	-	-	0.03
8057	668739.0	4281175.0	Roadway/Open Space	-	-	0.03
8058	668749.0	4281175.0	Roadway/Open Space	-	-	0.04
8059	668759.0	4281175.0	Roadway/Open Space	-	-	0.05
8060	668769.0	4281175.0	Roadway/Open Space	-	-	0.05
8061	668779.0	4281175.0	Roadway/Open Space	-	-	0.05
8062	668789.0	4281175.0	Roadway/Open Space	-	-	0.05
8063	668799.0	4281175.0	Roadway/Open Space	-	-	0.06
8064	668809.0	4281175.0	Roadway/Open Space	-	-	0.06
8065	668819.0	4281175.0	Roadway/Open Space	-	-	0.06
8066	668829.0	4281175.0	Roadway/Open Space	-	-	0.07
8067	668839.0	4281175.0	Roadway/Open Space	-	-	0.07
8068	668849.0	4281175.0	Roadway/Open Space	-	-	0.08
8069	668859.0	4281175.0	Roadway/Open Space	-	-	0.08
8070	668869.0	4281175.0	Roadway/Open Space	-	-	0.08
8071	668879.0	4281175.0	Roadway/Open Space	-	-	0.08
8072	669289.0	4281175.0	Residential	1.30	0.005	0.05
8073	669299.0	4281175.0	Residential	1.21	0.004	0.05
8074	669309.0	4281175.0	Residential	1.12	0.004	0.05
8075	669319.0	4281175.0	Residential	1.05	0.004	0.04
8076	669329.0	4281175.0	Residential	0.98	0.004	0.04
8077	669339.0	4281175.0	Residential	0.92	0.003	0.04
8078	669349.0	4281175.0	Roadway/Open Space	-	-	0.03
8079	669359.0	4281175.0	Residential	0.83	0.003	0.03
8080	669369.0	4281175.0	Residential	0.81	0.003	0.03
8081	669379.0	4281175.0	Residential	0.79	0.003	0.03
8082	669389.0	4281175.0	Residential	0.78	0.003	0.03
8083	669399.0	4281175.0	Residential	0.76	0.003	0.04
8084	669409.0	4281175.0	Residential	0.73	0.003	0.04
8085	669419.0	4281175.0	Residential	0.70	0.003	0.03
8086	669429.0	4281175.0	Residential	0.67	0.002	0.03
8087	669439.0	4281175.0	Roadway/Open Space	-	-	0.03
8088	669449.0	4281175.0	Roadway/Open Space	-	-	0.03
8089	669459.0	4281175.0	Roadway/Open Space	-	-	0.03
8090	669469.0	4281175.0	Roadway/Open Space	-	-	0.03
8091	669479.0	4281175.0	Roadway/Open Space	-	-	0.03
8092	669489.0	4281175.0	Roadway/Open Space	-	-	0.03
8093	669499.0	4281175.0	Roadway/Open Space	-	-	0.03
8094	669509.0	4281175.0	Roadway/Open Space	-	-	0.02
8095	669519.0	4281175.0	Roadway/Open Space	-	-	0.02
8096	668519.0	4281185.0	Roadway/Open Space	-	-	0.01
8097	668529.0	4281185.0	Residential	0.12	0.000	0.01
8098	668539.0	4281185.0	Residential	0.14	0.001	0.02
8099	668549.0	4281185.0	Residential	0.15	0.001	0.02
8100	668559.0	4281185.0	Residential	0.17	0.001	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8101	668569.0	4281185.0	Residential	0.20	0.001	0.02
8102	668579.0	4281185.0	Roadway/Open Space	-	-	0.02
8103	668589.0	4281185.0	Roadway/Open Space	-	-	0.03
8104	668599.0	4281185.0	Roadway/Open Space	-	-	0.03
8105	668609.0	4281185.0	Roadway/Open Space	-	-	0.03
8106	668619.0	4281185.0	Roadway/Open Space	-	-	0.03
8107	668629.0	4281185.0	Roadway/Open Space	-	-	0.03
8108	668639.0	4281185.0	Roadway/Open Space	-	-	0.03
8109	668649.0	4281185.0	Roadway/Open Space	-	-	0.02
8110	668659.0	4281185.0	Roadway/Open Space	-	-	0.03
8111	668669.0	4281185.0	Roadway/Open Space	-	-	0.03
8112	668679.0	4281185.0	Roadway/Open Space	-	-	0.03
8113	668689.0	4281185.0	Roadway/Open Space	-	-	0.03
8114	668699.0	4281185.0	Roadway/Open Space	-	-	0.03
8115	668709.0	4281185.0	Roadway/Open Space	-	-	0.03
8116	668719.0	4281185.0	Roadway/Open Space	-	-	0.03
8117	668729.0	4281185.0	Roadway/Open Space	-	-	0.03
8118	668739.0	4281185.0	Roadway/Open Space	-	-	0.03
8119	668749.0	4281185.0	Roadway/Open Space	-	-	0.04
8120	668759.0	4281185.0	Roadway/Open Space	-	-	0.05
8121	668769.0	4281185.0	Roadway/Open Space	-	-	0.05
8122	668779.0	4281185.0	Roadway/Open Space	-	-	0.05
8123	668789.0	4281185.0	Roadway/Open Space	-	-	0.05
8124	668799.0	4281185.0	Roadway/Open Space	-	-	0.06
8125	668809.0	4281185.0	Other Sensitive	1.25	0.005	0.06
8126	668819.0	4281185.0	Other Sensitive	1.35	0.005	0.06
8127	668829.0	4281185.0	Roadway/Open Space	-	-	0.07
8128	668839.0	4281185.0	Roadway/Open Space	-	-	0.07
8129	668849.0	4281185.0	Roadway/Open Space	-	-	0.08
8130	668859.0	4281185.0	Roadway/Open Space	-	-	0.08
8131	668869.0	4281185.0	Roadway/Open Space	-	-	0.07
8132	668879.0	4281185.0	Roadway/Open Space	-	-	0.08
8133	669289.0	4281185.0	Residential	1.28	0.005	0.05
8134	669299.0	4281185.0	Residential	1.19	0.004	0.05
8135	669309.0	4281185.0	Residential	1.11	0.004	0.05
8136	669319.0	4281185.0	Residential	1.04	0.004	0.04
8137	669329.0	4281185.0	Residential	0.97	0.004	0.04
8138	669339.0	4281185.0	Roadway/Open Space	-	-	0.04
8139	669349.0	4281185.0	Residential	0.86	0.003	0.04
8140	669359.0	4281185.0	Residential	0.83	0.003	0.03
8141	669369.0	4281185.0	Residential	0.80	0.003	0.03
8142	669379.0	4281185.0	Residential	0.78	0.003	0.03
8143	669389.0	4281185.0	Residential	0.76	0.003	0.04
8144	669399.0	4281185.0	Residential	0.75	0.003	0.04
8145	669409.0	4281185.0	Residential	0.71	0.003	0.03
8146	669419.0	4281185.0	Residential	0.67	0.002	0.03
8147	669429.0	4281185.0	Residential	0.64	0.002	0.03
8148	669439.0	4281185.0	Roadway/Open Space	-	-	0.03
8149	669449.0	4281185.0	Roadway/Open Space	-	-	0.03
8150	669459.0	4281185.0	Roadway/Open Space	-	-	0.03
8151	669469.0	4281185.0	Roadway/Open Space	-	-	0.03
8152	669479.0	4281185.0	Roadway/Open Space	-	-	0.03
8153	669489.0	4281185.0	Roadway/Open Space	-	-	0.03
8154	669499.0	4281185.0	Roadway/Open Space	-	-	0.03
8155	669509.0	4281185.0	Roadway/Open Space	-	-	0.02
8156	668519.0	4281195.0	Residential	0.12	0.000	0.01
8157	668529.0	4281195.0	Residential	0.13	0.000	0.01
8158	668539.0	4281195.0	Residential	0.15	0.001	0.02
8159	668549.0	4281195.0	Residential	0.16	0.001	0.02
8160	668559.0	4281195.0	Residential	0.18	0.001	0.02
8161	668569.0	4281195.0	Roadway/Open Space	-	-	0.02
8162	668579.0	4281195.0	Roadway/Open Space	-	-	0.03
8163	668589.0	4281195.0	Roadway/Open Space	-	-	0.03
8164	668599.0	4281195.0	Roadway/Open Space	-	-	0.03
8165	668609.0	4281195.0	Roadway/Open Space	-	-	0.03
8166	668619.0	4281195.0	Roadway/Open Space	-	-	0.03
8167	668629.0	4281195.0	Roadway/Open Space	-	-	0.03
8168	668639.0	4281195.0	Roadway/Open Space	-	-	0.03
8169	668649.0	4281195.0	Roadway/Open Space	-	-	0.02
8170	668659.0	4281195.0	Roadway/Open Space	-	-	0.03
8171	668669.0	4281195.0	Roadway/Open Space	-	-	0.03
8172	668679.0	4281195.0	Roadway/Open Space	-	-	0.03
8173	668689.0	4281195.0	Roadway/Open Space	-	-	0.03
8174	668699.0	4281195.0	Roadway/Open Space	-	-	0.03
8175	668709.0	4281195.0	Roadway/Open Space	-	-	0.03
8176	668719.0	4281195.0	Roadway/Open Space	-	-	0.03
8177	668729.0	4281195.0	Roadway/Open Space	-	-	0.03
8178	668739.0	4281195.0	Roadway/Open Space	-	-	0.03
8179	668749.0	4281195.0	Roadway/Open Space	-	-	0.04
8180	668759.0	4281195.0	Roadway/Open Space	-	-	0.05
8181	668769.0	4281195.0	Roadway/Open Space	-	-	0.05
8182	668779.0	4281195.0	Roadway/Open Space	-	-	0.05
8183	668789.0	4281195.0	Roadway/Open Space	-	-	0.05
8184	668799.0	4281195.0	Other Sensitive	1.15	0.004	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8185	668809.0	4281195.0	Other Sensitive	1.24	0.005	0.06
8186	668819.0	4281195.0	Other Sensitive	1.34	0.005	0.07
8187	668829.0	4281195.0	Other Sensitive	1.45	0.005	0.07
8188	668839.0	4281195.0	Roadway/Open Space	-	-	0.07
8189	668849.0	4281195.0	Roadway/Open Space	-	-	0.08
8190	668859.0	4281195.0	Roadway/Open Space	-	-	0.08
8191	668869.0	4281195.0	Roadway/Open Space	-	-	0.08
8192	668879.0	4281195.0	Roadway/Open Space	-	-	0.07
8193	669289.0	4281195.0	Residential	1.26	0.005	0.05
8194	669299.0	4281195.0	Residential	1.17	0.004	0.04
8195	669309.0	4281195.0	Residential	1.10	0.004	0.04
8196	669319.0	4281195.0	Residential	1.03	0.004	0.04
8197	669329.0	4281195.0	Residential	0.97	0.004	0.04
8198	669339.0	4281195.0	Roadway/Open Space	-	-	0.04
8199	669349.0	4281195.0	Residential	0.86	0.003	0.04
8200	669359.0	4281195.0	Residential	0.82	0.003	0.04
8201	669369.0	4281195.0	Residential	0.79	0.003	0.03
8202	669379.0	4281195.0	Residential	0.77	0.003	0.03
8203	669389.0	4281195.0	Residential	0.75	0.003	0.03
8204	669399.0	4281195.0	Residential	0.73	0.003	0.04
8205	669409.0	4281195.0	Residential	0.69	0.003	0.03
8206	669419.0	4281195.0	Residential	0.65	0.002	0.03
8207	669429.0	4281195.0	Residential	0.62	0.002	0.03
8208	669439.0	4281195.0	Roadway/Open Space	-	-	0.03
8209	669449.0	4281195.0	Roadway/Open Space	-	-	0.03
8210	669459.0	4281195.0	Roadway/Open Space	-	-	0.03
8211	669469.0	4281195.0	Roadway/Open Space	-	-	0.03
8212	669479.0	4281195.0	Roadway/Open Space	-	-	0.03
8213	669489.0	4281195.0	Roadway/Open Space	-	-	0.03
8214	669499.0	4281195.0	Roadway/Open Space	-	-	0.03
8215	669509.0	4281195.0	Roadway/Open Space	-	-	0.02
8216	668529.0	4281205.0	Residential	0.14	0.001	0.01
8217	668539.0	4281205.0	Residential	0.16	0.001	0.02
8218	668549.0	4281205.0	Residential	0.18	0.001	0.02
8219	668559.0	4281205.0	Residential	0.20	0.001	0.02
8220	668569.0	4281205.0	Roadway/Open Space	-	-	0.02
8221	668579.0	4281205.0	Roadway/Open Space	-	-	0.03
8222	668589.0	4281205.0	Roadway/Open Space	-	-	0.03
8223	668599.0	4281205.0	Roadway/Open Space	-	-	0.03
8224	668609.0	4281205.0	Roadway/Open Space	-	-	0.03
8225	668619.0	4281205.0	Roadway/Open Space	-	-	0.03
8226	668629.0	4281205.0	Roadway/Open Space	-	-	0.03
8227	668639.0	4281205.0	Roadway/Open Space	-	-	0.02
8228	668649.0	4281205.0	Roadway/Open Space	-	-	0.02
8229	668659.0	4281205.0	Roadway/Open Space	-	-	0.03
8230	668669.0	4281205.0	Roadway/Open Space	-	-	0.03
8231	668679.0	4281205.0	Roadway/Open Space	-	-	0.03
8232	668689.0	4281205.0	Roadway/Open Space	-	-	0.03
8233	668699.0	4281205.0	Roadway/Open Space	-	-	0.03
8234	668709.0	4281205.0	Roadway/Open Space	-	-	0.03
8235	668719.0	4281205.0	Roadway/Open Space	-	-	0.03
8236	668729.0	4281205.0	Roadway/Open Space	-	-	0.03
8237	668739.0	4281205.0	Roadway/Open Space	-	-	0.03
8238	668749.0	4281205.0	Roadway/Open Space	-	-	0.04
8239	668759.0	4281205.0	Roadway/Open Space	-	-	0.05
8240	668769.0	4281205.0	Roadway/Open Space	-	-	0.05
8241	668779.0	4281205.0	Roadway/Open Space	-	-	0.05
8242	668789.0	4281205.0	Other Sensitive	1.07	0.004	0.06
8243	668799.0	4281205.0	Other Sensitive	1.15	0.004	0.06
8244	668809.0	4281205.0	Other Sensitive	1.23	0.005	0.06
8245	668819.0	4281205.0	Other Sensitive	1.32	0.005	0.07
8246	668829.0	4281205.0	Other Sensitive	1.42	0.005	0.07
8247	668839.0	4281205.0	Other Sensitive	1.53	0.006	0.07
8248	668849.0	4281205.0	Roadway/Open Space	-	-	0.08
8249	668859.0	4281205.0	Roadway/Open Space	-	-	0.08
8250	668869.0	4281205.0	Roadway/Open Space	-	-	0.08
8251	668879.0	4281205.0	Roadway/Open Space	-	-	0.08
8252	669289.0	4281205.0	Roadway/Open Space	-	-	0.05
8253	669299.0	4281205.0	Residential	1.16	0.004	0.04
8254	669309.0	4281205.0	Residential	1.09	0.004	0.04
8255	669319.0	4281205.0	Residential	1.02	0.004	0.04
8256	669329.0	4281205.0	Roadway/Open Space	-	-	0.04
8257	669339.0	4281205.0	Residential	0.91	0.003	0.04
8258	669349.0	4281205.0	Residential	0.85	0.003	0.04
8259	669359.0	4281205.0	Residential	0.81	0.003	0.04
8260	669369.0	4281205.0	Residential	0.78	0.003	0.03
8261	669379.0	4281205.0	Residential	0.76	0.003	0.03
8262	669389.0	4281205.0	Residential	0.74	0.003	0.03
8263	669399.0	4281205.0	Residential	0.72	0.003	0.03
8264	669409.0	4281205.0	Residential	0.68	0.002	0.03
8265	669419.0	4281205.0	Residential	0.64	0.002	0.03
8266	669429.0	4281205.0	Residential	0.61	0.002	0.03
8267	669439.0	4281205.0	Roadway/Open Space	-	-	0.03
8268	669449.0	4281205.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8269	669459.0	4281205.0	Roadway/Open Space	-	-	0.03
8270	669469.0	4281205.0	Roadway/Open Space	-	-	0.03
8271	669479.0	4281205.0	Roadway/Open Space	-	-	0.03
8272	669489.0	4281205.0	Roadway/Open Space	-	-	0.03
8273	669499.0	4281205.0	Roadway/Open Space	-	-	0.03
8274	669509.0	4281205.0	Roadway/Open Space	-	-	0.02
8275	668529.0	4281215.0	Residential	0.15	0.001	0.01
8276	668539.0	4281215.0	Residential	0.17	0.001	0.02
8277	668549.0	4281215.0	Residential	0.18	0.001	0.02
8278	668559.0	4281215.0	Roadway/Open Space	-	-	0.02
8279	668569.0	4281215.0	Roadway/Open Space	-	-	0.02
8280	668579.0	4281215.0	Roadway/Open Space	-	-	0.03
8281	668589.0	4281215.0	Roadway/Open Space	-	-	0.03
8282	668599.0	4281215.0	Roadway/Open Space	-	-	0.03
8283	668609.0	4281215.0	Roadway/Open Space	-	-	0.03
8284	668619.0	4281215.0	Roadway/Open Space	-	-	0.03
8285	668629.0	4281215.0	Roadway/Open Space	-	-	0.03
8286	668639.0	4281215.0	Roadway/Open Space	-	-	0.02
8287	668649.0	4281215.0	Roadway/Open Space	-	-	0.02
8288	668659.0	4281215.0	Roadway/Open Space	-	-	0.02
8289	668669.0	4281215.0	Roadway/Open Space	-	-	0.02
8290	668679.0	4281215.0	Roadway/Open Space	-	-	0.03
8291	668689.0	4281215.0	Roadway/Open Space	-	-	0.03
8292	668699.0	4281215.0	Roadway/Open Space	-	-	0.03
8293	668709.0	4281215.0	Roadway/Open Space	-	-	0.03
8294	668719.0	4281215.0	Roadway/Open Space	-	-	0.03
8295	668729.0	4281215.0	Roadway/Open Space	-	-	0.03
8296	668739.0	4281215.0	Roadway/Open Space	-	-	0.04
8297	668749.0	4281215.0	Roadway/Open Space	-	-	0.04
8298	668759.0	4281215.0	Roadway/Open Space	-	-	0.05
8299	668769.0	4281215.0	Roadway/Open Space	-	-	0.05
8300	668779.0	4281215.0	Roadway/Open Space	-	-	0.05
8301	668789.0	4281215.0	Other Sensitive	1.06	0.004	0.06
8302	668799.0	4281215.0	Other Sensitive	1.14	0.004	0.06
8303	668809.0	4281215.0	Other Sensitive	1.22	0.005	0.06
8304	668819.0	4281215.0	Other Sensitive	1.30	0.005	0.07
8305	668829.0	4281215.0	Other Sensitive	1.39	0.005	0.07
8306	668839.0	4281215.0	Other Sensitive	1.48	0.006	0.07
8307	668849.0	4281215.0	Other Sensitive	1.60	0.006	0.07
8308	668859.0	4281215.0	Other Sensitive	1.73	0.007	0.08
8309	668869.0	4281215.0	Roadway/Open Space	-	-	0.08
8310	668879.0	4281215.0	Roadway/Open Space	-	-	0.08
8311	669289.0	4281215.0	Roadway/Open Space	-	-	0.05
8312	669299.0	4281215.0	Roadway/Open Space	-	-	0.05
8313	669309.0	4281215.0	Residential	1.08	0.004	0.04
8314	669319.0	4281215.0	Roadway/Open Space	-	-	0.04
8315	669329.0	4281215.0	Roadway/Open Space	-	-	0.04
8316	669339.0	4281215.0	Residential	0.90	0.003	0.03
8317	669349.0	4281215.0	Residential	0.85	0.003	0.03
8318	669359.0	4281215.0	Residential	0.80	0.003	0.03
8319	669369.0	4281215.0	Residential	0.76	0.003	0.03
8320	669379.0	4281215.0	Residential	0.75	0.003	0.03
8321	669389.0	4281215.0	Residential	0.73	0.003	0.03
8322	669399.0	4281215.0	Residential	0.71	0.003	0.03
8323	669409.0	4281215.0	Residential	0.67	0.002	0.03
8324	669419.0	4281215.0	Residential	0.63	0.002	0.03
8325	669429.0	4281215.0	Residential	0.60	0.002	0.03
8326	669439.0	4281215.0	Roadway/Open Space	-	-	0.03
8327	669449.0	4281215.0	Roadway/Open Space	-	-	0.03
8328	669459.0	4281215.0	Roadway/Open Space	-	-	0.03
8329	669469.0	4281215.0	Roadway/Open Space	-	-	0.03
8330	669479.0	4281215.0	Roadway/Open Space	-	-	0.03
8331	669489.0	4281215.0	Roadway/Open Space	-	-	0.03
8332	669499.0	4281215.0	Roadway/Open Space	-	-	0.03
8333	668529.0	4281225.0	Residential	0.15	0.001	0.01
8334	668539.0	4281225.0	Residential	0.17	0.001	0.02
8335	668549.0	4281225.0	Residential	0.19	0.001	0.02
8336	668559.0	4281225.0	Roadway/Open Space	-	-	0.02
8337	668569.0	4281225.0	Roadway/Open Space	-	-	0.03
8338	668579.0	4281225.0	Roadway/Open Space	-	-	0.03
8339	668589.0	4281225.0	Roadway/Open Space	-	-	0.03
8340	668599.0	4281225.0	Roadway/Open Space	-	-	0.03
8341	668609.0	4281225.0	Roadway/Open Space	-	-	0.03
8342	668619.0	4281225.0	Roadway/Open Space	-	-	0.03
8343	668629.0	4281225.0	Roadway/Open Space	-	-	0.03
8344	668639.0	4281225.0	Roadway/Open Space	-	-	0.02
8345	668649.0	4281225.0	Roadway/Open Space	-	-	0.02
8346	668659.0	4281225.0	Roadway/Open Space	-	-	0.02
8347	668669.0	4281225.0	Roadway/Open Space	-	-	0.02
8348	668679.0	4281225.0	Roadway/Open Space	-	-	0.03
8349	668689.0	4281225.0	Roadway/Open Space	-	-	0.03
8350	668699.0	4281225.0	Roadway/Open Space	-	-	0.03
8351	668709.0	4281225.0	Roadway/Open Space	-	-	0.03
8352	668719.0	4281225.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8353	668729.0	4281225.0	Roadway/Open Space	-	-	0.03
8354	668739.0	4281225.0	Roadway/Open Space	-	-	0.04
8355	668749.0	4281225.0	Roadway/Open Space	-	-	0.05
8356	668759.0	4281225.0	Roadway/Open Space	-	-	0.05
8357	668769.0	4281225.0	Roadway/Open Space	-	-	0.05
8358	668779.0	4281225.0	Other Sensitive	0.99	0.004	0.06
8359	668789.0	4281225.0	Other Sensitive	1.06	0.004	0.06
8360	668799.0	4281225.0	Other Sensitive	1.13	0.004	0.06
8361	668809.0	4281225.0	Other Sensitive	1.20	0.005	0.06
8362	668819.0	4281225.0	Other Sensitive	1.28	0.005	0.07
8363	668829.0	4281225.0	Other Sensitive	1.36	0.005	0.07
8364	668839.0	4281225.0	Other Sensitive	1.44	0.005	0.07
8365	668849.0	4281225.0	Other Sensitive	1.55	0.006	0.07
8366	668859.0	4281225.0	Other Sensitive	1.68	0.006	0.07
8367	668869.0	4281225.0	Other Sensitive	1.81	0.007	0.08
8368	668879.0	4281225.0	Roadway/Open Space	-	-	0.08
8369	668889.0	4281225.0	Roadway/Open Space	-	-	0.08
8370	668899.0	4281225.0	Roadway/Open Space	-	-	0.09
8371	668909.0	4281225.0	Roadway/Open Space	-	-	0.09
8372	668919.0	4281225.0	Roadway/Open Space	-	-	0.09
8373	668929.0	4281225.0	Roadway/Open Space	-	-	0.09
8374	669289.0	4281225.0	Roadway/Open Space	-	-	0.05
8375	669299.0	4281225.0	Roadway/Open Space	-	-	0.05
8376	669309.0	4281225.0	Roadway/Open Space	-	-	0.04
8377	669319.0	4281225.0	Roadway/Open Space	-	-	0.04
8378	669329.0	4281225.0	Residential	0.95	0.003	0.04
8379	669339.0	4281225.0	Residential	0.89	0.003	0.04
8380	669349.0	4281225.0	Residential	0.84	0.003	0.03
8381	669359.0	4281225.0	Residential	0.79	0.003	0.03
8382	669369.0	4281225.0	Residential	0.75	0.003	0.03
8383	669379.0	4281225.0	Residential	0.73	0.003	0.03
8384	669389.0	4281225.0	Residential	0.72	0.003	0.03
8385	669399.0	4281225.0	Residential	0.70	0.003	0.03
8386	669409.0	4281225.0	Residential	0.66	0.002	0.03
8387	669419.0	4281225.0	Residential	0.62	0.002	0.03
8388	669429.0	4281225.0	Residential	0.59	0.002	0.03
8389	669439.0	4281225.0	Roadway/Open Space	-	-	0.03
8390	669449.0	4281225.0	Residential	0.55	0.002	0.03
8391	669459.0	4281225.0	Residential	0.54	0.002	0.03
8392	669469.0	4281225.0	Residential	0.52	0.002	0.03
8393	669479.0	4281225.0	Residential	0.51	0.002	0.03
8394	669489.0	4281225.0	Roadway/Open Space	-	-	0.03
8395	669499.0	4281225.0	Roadway/Open Space	-	-	0.03
8396	668539.0	4281235.0	Residential	0.17	0.001	0.02
8397	668549.0	4281235.0	Roadway/Open Space	-	-	0.02
8398	668559.0	4281235.0	Roadway/Open Space	-	-	0.02
8399	668569.0	4281235.0	Roadway/Open Space	-	-	0.03
8400	668579.0	4281235.0	Roadway/Open Space	-	-	0.03
8401	668589.0	4281235.0	Roadway/Open Space	-	-	0.03
8402	668599.0	4281235.0	Roadway/Open Space	-	-	0.03
8403	668609.0	4281235.0	Roadway/Open Space	-	-	0.03
8404	668619.0	4281235.0	Roadway/Open Space	-	-	0.03
8405	668629.0	4281235.0	Roadway/Open Space	-	-	0.02
8406	668639.0	4281235.0	Roadway/Open Space	-	-	0.02
8407	668649.0	4281235.0	Roadway/Open Space	-	-	0.02
8408	668659.0	4281235.0	Roadway/Open Space	-	-	0.02
8409	668669.0	4281235.0	Roadway/Open Space	-	-	0.02
8410	668679.0	4281235.0	Roadway/Open Space	-	-	0.03
8411	668689.0	4281235.0	Roadway/Open Space	-	-	0.03
8412	668699.0	4281235.0	Roadway/Open Space	-	-	0.03
8413	668709.0	4281235.0	Roadway/Open Space	-	-	0.03
8414	668719.0	4281235.0	Roadway/Open Space	-	-	0.03
8415	668729.0	4281235.0	Roadway/Open Space	-	-	0.03
8416	668739.0	4281235.0	Roadway/Open Space	-	-	0.04
8417	668749.0	4281235.0	Roadway/Open Space	-	-	0.05
8418	668759.0	4281235.0	Roadway/Open Space	-	-	0.05
8419	668769.0	4281235.0	Other Sensitive	0.93	0.003	0.05
8420	668779.0	4281235.0	Other Sensitive	0.99	0.004	0.06
8421	668789.0	4281235.0	Other Sensitive	1.05	0.004	0.06
8422	668799.0	4281235.0	Other Sensitive	1.12	0.004	0.06
8423	668809.0	4281235.0	Other Sensitive	1.18	0.004	0.06
8424	668819.0	4281235.0	Other Sensitive	1.25	0.005	0.06
8425	668829.0	4281235.0	Other Sensitive	1.32	0.005	0.06
8426	668839.0	4281235.0	Other Sensitive	1.41	0.005	0.07
8427	668849.0	4281235.0	Other Sensitive	1.51	0.006	0.07
8428	668859.0	4281235.0	Other Sensitive	1.63	0.006	0.07
8429	668869.0	4281235.0	Other Sensitive	1.75	0.007	0.07
8430	668879.0	4281235.0	Other Sensitive	1.87	0.007	0.08
8431	668889.0	4281235.0	Other Sensitive	1.99	0.008	0.08
8432	668899.0	4281235.0	Roadway/Open Space	-	-	0.08
8433	668909.0	4281235.0	Roadway/Open Space	-	-	0.09
8434	668919.0	4281235.0	Roadway/Open Space	-	-	0.09
8435	668929.0	4281235.0	Roadway/Open Space	-	-	0.08
8436	668939.0	4281235.0	Roadway/Open Space	-	-	0.10

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8437	668949.0	4281235.0	Roadway/Open Space	-	-	0.13
8438	668959.0	4281235.0	Roadway/Open Space	-	-	0.14
8439	668969.0	4281235.0	Roadway/Open Space	-	-	0.14
8440	668979.0	4281235.0	Residential	3.56	0.014	0.14
8441	668989.0	4281235.0	Residential	3.66	0.015	0.15
8442	668999.0	4281235.0	Residential	3.73	0.015	0.14
8443	669009.0	4281235.0	Residential	3.77	0.015	0.14
8444	669019.0	4281235.0	Residential	3.77	0.015	0.14
8445	669029.0	4281235.0	Residential	3.78	0.015	0.13
8446	669039.0	4281235.0	Residential	3.84	0.015	0.13
8447	669049.0	4281235.0	Residential	3.90	0.016	0.13
8448	669059.0	4281235.0	Residential	3.93	0.016	0.12
8449	669069.0	4281235.0	Residential	4.04	0.016	0.12
8450	669079.0	4281235.0	Residential	4.13	0.017	0.12
8451	669089.0	4281235.0	Residential	4.10	0.017	0.12
8452	669099.0	4281235.0	Residential	4.02	0.016	0.11
8453	669109.0	4281235.0	Residential	3.90	0.016	0.11
8454	669119.0	4281235.0	Residential	3.78	0.015	0.11
8455	669129.0	4281235.0	Residential	3.60	0.015	0.09
8456	669139.0	4281235.0	Residential	3.41	0.014	0.09
8457	669149.0	4281235.0	Residential	3.21	0.013	0.09
8458	669159.0	4281235.0	Residential	3.00	0.012	0.09
8459	669169.0	4281235.0	Residential	2.79	0.011	0.08
8460	669179.0	4281235.0	Residential	2.59	0.010	0.07
8461	669289.0	4281235.0	Roadway/Open Space	-	-	0.04
8462	669299.0	4281235.0	Roadway/Open Space	-	-	0.04
8463	669309.0	4281235.0	Roadway/Open Space	-	-	0.04
8464	669319.0	4281235.0	Residential	0.99	0.004	0.04
8465	669329.0	4281235.0	Residential	0.93	0.003	0.04
8466	669339.0	4281235.0	Residential	0.88	0.003	0.04
8467	669349.0	4281235.0	Residential	0.83	0.003	0.03
8468	669359.0	4281235.0	Residential	0.78	0.003	0.03
8469	669369.0	4281235.0	Residential	0.74	0.003	0.03
8470	669379.0	4281235.0	Residential	0.72	0.003	0.03
8471	669389.0	4281235.0	Residential	0.71	0.003	0.03
8472	669399.0	4281235.0	Residential	0.68	0.002	0.03
8473	669409.0	4281235.0	Residential	0.65	0.002	0.03
8474	669419.0	4281235.0	Residential	0.61	0.002	0.03
8475	669429.0	4281235.0	Residential	0.58	0.002	0.03
8476	669439.0	4281235.0	Roadway/Open Space	-	-	0.03
8477	669449.0	4281235.0	Residential	0.54	0.002	0.03
8478	669459.0	4281235.0	Residential	0.52	0.002	0.03
8479	669469.0	4281235.0	Residential	0.50	0.002	0.03
8480	669479.0	4281235.0	Residential	0.49	0.002	0.03
8481	669489.0	4281235.0	Residential	0.47	0.002	0.03
8482	668539.0	4281245.0	Residential	0.17	0.001	0.02
8483	668549.0	4281245.0	Roadway/Open Space	-	-	0.02
8484	668559.0	4281245.0	Roadway/Open Space	-	-	0.02
8485	668569.0	4281245.0	Roadway/Open Space	-	-	0.03
8486	668579.0	4281245.0	Roadway/Open Space	-	-	0.03
8487	668589.0	4281245.0	Roadway/Open Space	-	-	0.03
8488	668599.0	4281245.0	Roadway/Open Space	-	-	0.03
8489	668609.0	4281245.0	Roadway/Open Space	-	-	0.03
8490	668619.0	4281245.0	Roadway/Open Space	-	-	0.03
8491	668629.0	4281245.0	Roadway/Open Space	-	-	0.02
8492	668639.0	4281245.0	Roadway/Open Space	-	-	0.02
8493	668649.0	4281245.0	Roadway/Open Space	-	-	0.02
8494	668659.0	4281245.0	Roadway/Open Space	-	-	0.02
8495	668669.0	4281245.0	Roadway/Open Space	-	-	0.02
8496	668679.0	4281245.0	Roadway/Open Space	-	-	0.03
8497	668689.0	4281245.0	Roadway/Open Space	-	-	0.03
8498	668699.0	4281245.0	Roadway/Open Space	-	-	0.03
8499	668709.0	4281245.0	Roadway/Open Space	-	-	0.03
8500	668719.0	4281245.0	Roadway/Open Space	-	-	0.03
8501	668729.0	4281245.0	Roadway/Open Space	-	-	0.04
8502	668739.0	4281245.0	Roadway/Open Space	-	-	0.04
8503	668749.0	4281245.0	Roadway/Open Space	-	-	0.05
8504	668759.0	4281245.0	Roadway/Open Space	-	-	0.05
8505	668769.0	4281245.0	Other Sensitive	0.93	0.003	0.05
8506	668779.0	4281245.0	Other Sensitive	0.98	0.004	0.06
8507	668789.0	4281245.0	Other Sensitive	1.04	0.004	0.06
8508	668799.0	4281245.0	Other Sensitive	1.10	0.004	0.06
8509	668809.0	4281245.0	Other Sensitive	1.16	0.004	0.06
8510	668819.0	4281245.0	Other Sensitive	1.22	0.005	0.06
8511	668829.0	4281245.0	Other Sensitive	1.28	0.005	0.06
8512	668839.0	4281245.0	Other Sensitive	1.37	0.005	0.06
8513	668849.0	4281245.0	Other Sensitive	1.47	0.006	0.07
8514	668859.0	4281245.0	Other Sensitive	1.58	0.006	0.07
8515	668869.0	4281245.0	Other Sensitive	1.69	0.006	0.07
8516	668879.0	4281245.0	Other Sensitive	1.80	0.007	0.08
8517	668889.0	4281245.0	Other Sensitive	1.92	0.007	0.08
8518	668899.0	4281245.0	Other Sensitive	2.05	0.008	0.08
8519	668909.0	4281245.0	Other Sensitive	2.20	0.008	0.08
8520	668919.0	4281245.0	Other Sensitive	2.36	0.009	0.09

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8521	668929.0	4281245.0	Other Sensitive	2.57	0.010	0.08
8522	668939.0	4281245.0	Other Sensitive	2.75	0.011	0.10
8523	668949.0	4281245.0	Other Sensitive	2.90	0.011	0.13
8524	668959.0	4281245.0	Other Sensitive	3.06	0.012	0.13
8525	668969.0	4281245.0	Roadway/Open Space	-	-	0.13
8526	668979.0	4281245.0	Residential	3.30	0.013	0.14
8527	668989.0	4281245.0	Residential	3.35	0.013	0.14
8528	668999.0	4281245.0	Residential	3.39	0.014	0.13
8529	669009.0	4281245.0	Residential	3.43	0.014	0.13
8530	669019.0	4281245.0	Residential	3.42	0.014	0.13
8531	669029.0	4281245.0	Residential	3.41	0.014	0.12
8532	669039.0	4281245.0	Residential	3.45	0.014	0.12
8533	669049.0	4281245.0	Residential	3.49	0.014	0.12
8534	669059.0	4281245.0	Residential	3.55	0.014	0.11
8535	669069.0	4281245.0	Residential	3.68	0.015	0.11
8536	669079.0	4281245.0	Residential	3.76	0.015	0.11
8537	669089.0	4281245.0	Residential	3.72	0.015	0.11
8538	669099.0	4281245.0	Residential	3.67	0.015	0.10
8539	669109.0	4281245.0	Residential	3.59	0.015	0.10
8540	669119.0	4281245.0	Residential	3.49	0.014	0.10
8541	669129.0	4281245.0	Residential	3.37	0.014	0.09
8542	669139.0	4281245.0	Residential	3.21	0.013	0.09
8543	669149.0	4281245.0	Residential	3.04	0.012	0.08
8544	669159.0	4281245.0	Residential	2.86	0.011	0.08
8545	669169.0	4281245.0	Residential	2.67	0.011	0.08
8546	669179.0	4281245.0	Residential	2.49	0.010	0.07
8547	669189.0	4281245.0	Residential	2.33	0.009	0.06
8548	669199.0	4281245.0	Residential	2.17	0.008	0.06
8549	669209.0	4281245.0	Residential	2.02	0.008	0.06
8550	669219.0	4281245.0	Residential	1.88	0.007	0.06
8551	669229.0	4281245.0	Residential	1.76	0.007	0.05
8552	669239.0	4281245.0	Residential	1.63	0.006	0.05
8553	669249.0	4281245.0	Roadway/Open Space	-	-	0.05
8554	669259.0	4281245.0	Roadway/Open Space	-	-	0.05
8555	669269.0	4281245.0	Roadway/Open Space	-	-	0.04
8556	669279.0	4281245.0	Roadway/Open Space	-	-	0.04
8557	669289.0	4281245.0	Roadway/Open Space	-	-	0.04
8558	669299.0	4281245.0	Roadway/Open Space	-	-	0.04
8559	669309.0	4281245.0	Residential	1.03	0.004	0.04
8560	669319.0	4281245.0	Residential	0.97	0.004	0.04
8561	669329.0	4281245.0	Residential	0.91	0.003	0.04
8562	669339.0	4281245.0	Residential	0.86	0.003	0.04
8563	669349.0	4281245.0	Residential	0.81	0.003	0.03
8564	669359.0	4281245.0	Residential	0.77	0.003	0.03
8565	669369.0	4281245.0	Residential	0.73	0.003	0.03
8566	669379.0	4281245.0	Residential	0.71	0.003	0.03
8567	669389.0	4281245.0	Residential	0.68	0.003	0.03
8568	669399.0	4281245.0	Residential	0.66	0.002	0.03
8569	669409.0	4281245.0	Residential	0.62	0.002	0.03
8570	669419.0	4281245.0	Residential	0.59	0.002	0.03
8571	669429.0	4281245.0	Roadway/Open Space	-	-	0.03
8572	669439.0	4281245.0	Roadway/Open Space	-	-	0.03
8573	669449.0	4281245.0	Residential	0.52	0.002	0.03
8574	669459.0	4281245.0	Residential	0.50	0.002	0.03
8575	669469.0	4281245.0	Residential	0.48	0.002	0.02
8576	669479.0	4281245.0	Residential	0.46	0.002	0.02
8577	669489.0	4281245.0	Residential	0.45	0.002	0.02
8578	668549.0	4281255.0	Roadway/Open Space	-	-	0.02
8579	668559.0	4281255.0	Roadway/Open Space	-	-	0.02
8580	668569.0	4281255.0	Roadway/Open Space	-	-	0.03
8581	668579.0	4281255.0	Roadway/Open Space	-	-	0.03
8582	668589.0	4281255.0	Roadway/Open Space	-	-	0.03
8583	668599.0	4281255.0	Roadway/Open Space	-	-	0.03
8584	668609.0	4281255.0	Roadway/Open Space	-	-	0.03
8585	668619.0	4281255.0	Roadway/Open Space	-	-	0.03
8586	668629.0	4281255.0	Roadway/Open Space	-	-	0.02
8587	668639.0	4281255.0	Roadway/Open Space	-	-	0.02
8588	668649.0	4281255.0	Roadway/Open Space	-	-	0.02
8589	668659.0	4281255.0	Roadway/Open Space	-	-	0.02
8590	668669.0	4281255.0	Roadway/Open Space	-	-	0.03
8591	668679.0	4281255.0	Roadway/Open Space	-	-	0.03
8592	668689.0	4281255.0	Roadway/Open Space	-	-	0.03
8593	668699.0	4281255.0	Roadway/Open Space	-	-	0.03
8594	668709.0	4281255.0	Roadway/Open Space	-	-	0.03
8595	668719.0	4281255.0	Roadway/Open Space	-	-	0.04
8596	668729.0	4281255.0	Roadway/Open Space	-	-	0.04
8597	668739.0	4281255.0	Roadway/Open Space	-	-	0.05
8598	668749.0	4281255.0	Roadway/Open Space	-	-	0.05
8599	668759.0	4281255.0	Other Sensitive	0.88	0.003	0.05
8600	668769.0	4281255.0	Other Sensitive	0.92	0.003	0.05
8601	668779.0	4281255.0	Other Sensitive	0.97	0.004	0.05
8602	668789.0	4281255.0	Other Sensitive	1.02	0.004	0.05
8603	668799.0	4281255.0	Other Sensitive	1.08	0.004	0.06
8604	668809.0	4281255.0	Other Sensitive	1.14	0.004	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8605	668819.0	4281255.0	Other Sensitive	1.19	0.005	0.06
8606	668829.0	4281255.0	Other Sensitive	1.25	0.005	0.06
8607	668839.0	4281255.0	Other Sensitive	1.33	0.005	0.06
8608	668849.0	4281255.0	Other Sensitive	1.43	0.005	0.07
8609	668859.0	4281255.0	Other Sensitive	1.53	0.006	0.07
8610	668869.0	4281255.0	Other Sensitive	1.62	0.006	0.07
8611	668879.0	4281255.0	Other Sensitive	1.73	0.007	0.07
8612	668889.0	4281255.0	Other Sensitive	1.85	0.007	0.07
8613	668899.0	4281255.0	Other Sensitive	1.98	0.008	0.08
8614	668909.0	4281255.0	Other Sensitive	2.11	0.008	0.08
8615	668919.0	4281255.0	Other Sensitive	2.27	0.009	0.08
8616	668929.0	4281255.0	Other Sensitive	2.46	0.010	0.09
8617	668939.0	4281255.0	Other Sensitive	2.61	0.010	0.11
8618	668949.0	4281255.0	Other Sensitive	2.75	0.011	0.12
8619	668959.0	4281255.0	Other Sensitive	2.89	0.011	0.12
8620	668969.0	4281255.0	Other Sensitive	2.98	0.012	0.13
8621	668979.0	4281255.0	Residential	3.05	0.012	0.13
8622	668989.0	4281255.0	Residential	3.08	0.012	0.13
8623	668999.0	4281255.0	Residential	3.09	0.012	0.12
8624	669009.0	4281255.0	Residential	3.10	0.012	0.12
8625	669019.0	4281255.0	Residential	3.08	0.012	0.12
8626	669029.0	4281255.0	Residential	3.07	0.012	0.11
8627	669039.0	4281255.0	Residential	3.10	0.012	0.11
8628	669049.0	4281255.0	Residential	3.13	0.012	0.10
8629	669059.0	4281255.0	Residential	3.23	0.013	0.10
8630	669069.0	4281255.0	Residential	3.37	0.014	0.11
8631	669079.0	4281255.0	Residential	3.44	0.014	0.11
8632	669089.0	4281255.0	Residential	3.40	0.014	0.10
8633	669099.0	4281255.0	Residential	3.37	0.014	0.10
8634	669109.0	4281255.0	Residential	3.33	0.013	0.09
8635	669119.0	4281255.0	Residential	3.24	0.013	0.09
8636	669129.0	4281255.0	Residential	3.14	0.013	0.09
8637	669139.0	4281255.0	Residential	3.01	0.012	0.08
8638	669149.0	4281255.0	Residential	2.87	0.011	0.08
8639	669159.0	4281255.0	Residential	2.72	0.011	0.07
8640	669169.0	4281255.0	Residential	2.56	0.010	0.07
8641	669179.0	4281255.0	Residential	2.40	0.009	0.07
8642	669189.0	4281255.0	Residential	2.25	0.009	0.06
8643	669199.0	4281255.0	Residential	2.10	0.008	0.06
8644	669209.0	4281255.0	Residential	1.96	0.008	0.05
8645	669219.0	4281255.0	Residential	1.83	0.007	0.05
8646	669229.0	4281255.0	Residential	1.71	0.007	0.05
8647	669239.0	4281255.0	Residential	1.59	0.006	0.05
8648	669249.0	4281255.0	Residential	1.49	0.006	0.04
8649	669259.0	4281255.0	Roadway/Open Space	-	-	0.04
8650	669269.0	4281255.0	Roadway/Open Space	-	-	0.04
8651	669279.0	4281255.0	Roadway/Open Space	-	-	0.04
8652	669289.0	4281255.0	Roadway/Open Space	-	-	0.04
8653	669299.0	4281255.0	Residential	1.08	0.004	0.04
8654	669309.0	4281255.0	Roadway/Open Space	-	-	0.04
8655	669319.0	4281255.0	Residential	0.96	0.004	0.03
8656	669329.0	4281255.0	Residential	0.90	0.003	0.03
8657	669339.0	4281255.0	Residential	0.84	0.003	0.03
8658	669349.0	4281255.0	Residential	0.80	0.003	0.03
8659	669359.0	4281255.0	Residential	0.76	0.003	0.03
8660	669369.0	4281255.0	Residential	0.72	0.003	0.03
8661	669379.0	4281255.0	Residential	0.69	0.003	0.03
8662	669389.0	4281255.0	Residential	0.66	0.002	0.03
8663	669399.0	4281255.0	Residential	0.63	0.002	0.03
8664	669409.0	4281255.0	Residential	0.60	0.002	0.03
8665	669419.0	4281255.0	Residential	0.57	0.002	0.03
8666	669429.0	4281255.0	Roadway/Open Space	-	-	0.03
8667	669439.0	4281255.0	Residential	0.52	0.002	0.02
8668	669449.0	4281255.0	Residential	0.50	0.002	0.02
8669	669459.0	4281255.0	Residential	0.48	0.002	0.02
8670	669469.0	4281255.0	Residential	0.46	0.002	0.02
8671	669479.0	4281255.0	Residential	0.44	0.002	0.02
8672	668549.0	4281265.0	Roadway/Open Space	-	-	0.02
8673	668559.0	4281265.0	Roadway/Open Space	-	-	0.02
8674	668569.0	4281265.0	Roadway/Open Space	-	-	0.03
8675	668579.0	4281265.0	Roadway/Open Space	-	-	0.03
8676	668589.0	4281265.0	Roadway/Open Space	-	-	0.03
8677	668599.0	4281265.0	Roadway/Open Space	-	-	0.03
8678	668609.0	4281265.0	Roadway/Open Space	-	-	0.03
8679	668619.0	4281265.0	Roadway/Open Space	-	-	0.03
8680	668629.0	4281265.0	Roadway/Open Space	-	-	0.02
8681	668639.0	4281265.0	Roadway/Open Space	-	-	0.02
8682	668649.0	4281265.0	Roadway/Open Space	-	-	0.02
8683	668659.0	4281265.0	Roadway/Open Space	-	-	0.02
8684	668669.0	4281265.0	Roadway/Open Space	-	-	0.03
8685	668679.0	4281265.0	Roadway/Open Space	-	-	0.03
8686	668689.0	4281265.0	Roadway/Open Space	-	-	0.03
8687	668699.0	4281265.0	Roadway/Open Space	-	-	0.03
8688	668709.0	4281265.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8689	668719.0	4281265.0	Roadway/Open Space	-	-	0.04
8690	668729.0	4281265.0	Roadway/Open Space	-	-	0.04
8691	668739.0	4281265.0	Roadway/Open Space	-	-	0.05
8692	668749.0	4281265.0	Other Sensitive	0.83	0.003	0.05
8693	668759.0	4281265.0	Other Sensitive	0.87	0.003	0.05
8694	668769.0	4281265.0	Other Sensitive	0.91	0.003	0.05
8695	668779.0	4281265.0	Other Sensitive	0.95	0.004	0.05
8696	668789.0	4281265.0	Other Sensitive	1.00	0.004	0.05
8697	668799.0	4281265.0	Other Sensitive	1.06	0.004	0.05
8698	668809.0	4281265.0	Other Sensitive	1.11	0.004	0.06
8699	668819.0	4281265.0	Other Sensitive	1.16	0.004	0.06
8700	668829.0	4281265.0	Other Sensitive	1.23	0.005	0.06
8701	668839.0	4281265.0	Other Sensitive	1.30	0.005	0.06
8702	668849.0	4281265.0	Other Sensitive	1.39	0.005	0.06
8703	668859.0	4281265.0	Other Sensitive	1.48	0.006	0.07
8704	668869.0	4281265.0	Other Sensitive	1.57	0.006	0.07
8705	668879.0	4281265.0	Other Sensitive	1.67	0.006	0.07
8706	668889.0	4281265.0	Other Sensitive	1.79	0.007	0.07
8707	668899.0	4281265.0	Other Sensitive	1.91	0.007	0.07
8708	668909.0	4281265.0	Other Sensitive	2.04	0.008	0.08
8709	668919.0	4281265.0	Other Sensitive	2.19	0.008	0.08
8710	668929.0	4281265.0	Other Sensitive	2.36	0.009	0.09
8711	668939.0	4281265.0	Other Sensitive	2.48	0.010	0.11
8712	668949.0	4281265.0	Other Sensitive	2.61	0.010	0.12
8713	668959.0	4281265.0	Other Sensitive	2.72	0.011	0.12
8714	668969.0	4281265.0	Other Sensitive	2.78	0.011	0.12
8715	668979.0	4281265.0	Residential	2.81	0.011	0.12
8716	668989.0	4281265.0	Residential	2.83	0.011	0.12
8717	668999.0	4281265.0	Residential	2.80	0.011	0.11
8718	669009.0	4281265.0	Residential	2.78	0.011	0.11
8719	669019.0	4281265.0	Residential	2.75	0.011	0.10
8720	669029.0	4281265.0	Residential	2.74	0.011	0.10
8721	669039.0	4281265.0	Residential	2.78	0.011	0.09
8722	669049.0	4281265.0	Residential	2.84	0.011	0.09
8723	669059.0	4281265.0	Residential	2.97	0.012	0.10
8724	669069.0	4281265.0	Residential	3.11	0.012	0.10
8725	669079.0	4281265.0	Residential	3.17	0.013	0.10
8726	669089.0	4281265.0	Residential	3.15	0.013	0.10
8727	669099.0	4281265.0	Residential	3.13	0.013	0.09
8728	669109.0	4281265.0	Residential	3.10	0.012	0.09
8729	669119.0	4281265.0	Residential	3.03	0.012	0.08
8730	669129.0	4281265.0	Residential	2.93	0.012	0.08
8731	669139.0	4281265.0	Residential	2.83	0.011	0.08
8732	669149.0	4281265.0	Residential	2.70	0.011	0.07
8733	669159.0	4281265.0	Residential	2.57	0.010	0.07
8734	669169.0	4281265.0	Residential	2.44	0.010	0.07
8735	669179.0	4281265.0	Residential	2.30	0.009	0.07
8736	669189.0	4281265.0	Residential	2.16	0.008	0.06
8737	669199.0	4281265.0	Residential	2.03	0.008	0.05
8738	669209.0	4281265.0	Residential	1.90	0.007	0.05
8739	669219.0	4281265.0	Residential	1.78	0.007	0.05
8740	669229.0	4281265.0	Residential	1.67	0.006	0.05
8741	669239.0	4281265.0	Residential	1.56	0.006	0.05
8742	669249.0	4281265.0	Residential	1.45	0.006	0.04
8743	669259.0	4281265.0	Roadway/Open Space	-	-	0.04
8744	669269.0	4281265.0	Roadway/Open Space	-	-	0.04
8745	669279.0	4281265.0	Residential	1.19	0.004	0.04
8746	669289.0	4281265.0	Residential	1.13	0.004	0.04
8747	669299.0	4281265.0	Residential	1.07	0.004	0.03
8748	669309.0	4281265.0	Residential	1.00	0.004	0.03
8749	669319.0	4281265.0	Roadway/Open Space	-	-	0.03
8750	669329.0	4281265.0	Residential	0.88	0.003	0.03
8751	669339.0	4281265.0	Residential	0.83	0.003	0.03
8752	669349.0	4281265.0	Residential	0.78	0.003	0.03
8753	669359.0	4281265.0	Residential	0.74	0.003	0.03
8754	669369.0	4281265.0	Residential	0.71	0.003	0.03
8755	669379.0	4281265.0	Residential	0.67	0.002	0.03
8756	669389.0	4281265.0	Residential	0.64	0.002	0.03
8757	669399.0	4281265.0	Residential	0.61	0.002	0.03
8758	669409.0	4281265.0	Residential	0.58	0.002	0.03
8759	669419.0	4281265.0	Roadway/Open Space	-	-	0.03
8760	669429.0	4281265.0	Roadway/Open Space	-	-	0.02
8761	669439.0	4281265.0	Residential	0.50	0.002	0.02
8762	669449.0	4281265.0	Residential	0.48	0.002	0.02
8763	669459.0	4281265.0	Residential	0.46	0.002	0.02
8764	669469.0	4281265.0	Residential	0.44	0.002	0.02
8765	669479.0	4281265.0	Residential	0.43	0.002	0.02
8766	668559.0	4281275.0	Roadway/Open Space	-	-	0.02
8767	668569.0	4281275.0	Roadway/Open Space	-	-	0.03
8768	668579.0	4281275.0	Roadway/Open Space	-	-	0.03
8769	668589.0	4281275.0	Roadway/Open Space	-	-	0.03
8770	668599.0	4281275.0	Roadway/Open Space	-	-	0.03
8771	668609.0	4281275.0	Roadway/Open Space	-	-	0.03
8772	668619.0	4281275.0	Roadway/Open Space	-	-	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8773	668629.0	4281275.0	Roadway/Open Space	-	-	0.02
8774	668639.0	4281275.0	Roadway/Open Space	-	-	0.02
8775	668649.0	4281275.0	Roadway/Open Space	-	-	0.02
8776	668659.0	4281275.0	Roadway/Open Space	-	-	0.03
8777	668669.0	4281275.0	Roadway/Open Space	-	-	0.03
8778	668679.0	4281275.0	Roadway/Open Space	-	-	0.03
8779	668689.0	4281275.0	Roadway/Open Space	-	-	0.03
8780	668699.0	4281275.0	Roadway/Open Space	-	-	0.03
8781	668709.0	4281275.0	Roadway/Open Space	-	-	0.04
8782	668719.0	4281275.0	Roadway/Open Space	-	-	0.04
8783	668729.0	4281275.0	Roadway/Open Space	-	-	0.04
8784	668739.0	4281275.0	Roadway/Open Space	-	-	0.05
8785	668749.0	4281275.0	Other Sensitive	0.82	0.003	0.05
8786	668759.0	4281275.0	Other Sensitive	0.86	0.003	0.05
8787	668769.0	4281275.0	Other Sensitive	0.90	0.003	0.05
8788	668779.0	4281275.0	Other Sensitive	0.93	0.004	0.05
8789	668789.0	4281275.0	Other Sensitive	0.98	0.004	0.05
8790	668799.0	4281275.0	Other Sensitive	1.03	0.004	0.05
8791	668809.0	4281275.0	Other Sensitive	1.07	0.004	0.05
8792	668819.0	4281275.0	Other Sensitive	1.13	0.004	0.06
8793	668829.0	4281275.0	Other Sensitive	1.19	0.005	0.06
8794	668839.0	4281275.0	Other Sensitive	1.27	0.005	0.06
8795	668849.0	4281275.0	Other Sensitive	1.35	0.005	0.06
8796	668859.0	4281275.0	Other Sensitive	1.43	0.005	0.07
8797	668869.0	4281275.0	Other Sensitive	1.52	0.006	0.07
8798	668879.0	4281275.0	Other Sensitive	1.62	0.006	0.07
8799	668889.0	4281275.0	Other Sensitive	1.74	0.007	0.07
8800	668899.0	4281275.0	Other Sensitive	1.85	0.007	0.07
8801	668909.0	4281275.0	Other Sensitive	1.97	0.008	0.08
8802	668919.0	4281275.0	Other Sensitive	2.12	0.008	0.08
8803	668929.0	4281275.0	Other Sensitive	2.26	0.009	0.09
8804	668939.0	4281275.0	Other Sensitive	2.37	0.009	0.11
8805	668949.0	4281275.0	Other Sensitive	2.48	0.010	0.11
8806	668959.0	4281275.0	Other Sensitive	2.56	0.010	0.11
8807	668969.0	4281275.0	Other Sensitive	2.60	0.010	0.12
8808	668979.0	4281275.0	Roadway/Open Space	-	-	0.12
8809	668989.0	4281275.0	Roadway/Open Space	-	-	0.11
8810	668999.0	4281275.0	Residential	2.54	0.010	0.10
8811	669009.0	4281275.0	Residential	2.49	0.010	0.10
8812	669019.0	4281275.0	Residential	2.47	0.010	0.09
8813	669029.0	4281275.0	Residential	2.47	0.010	0.09
8814	669039.0	4281275.0	Residential	2.51	0.010	0.08
8815	669049.0	4281275.0	Residential	2.58	0.010	0.09
8816	669059.0	4281275.0	Residential	2.71	0.011	0.09
8817	669069.0	4281275.0	Residential	2.85	0.011	0.09
8818	669079.0	4281275.0	Residential	2.93	0.012	0.09
8819	669089.0	4281275.0	Residential	2.93	0.012	0.09
8820	669099.0	4281275.0	Residential	2.91	0.012	0.09
8821	669109.0	4281275.0	Residential	2.88	0.012	0.08
8822	669119.0	4281275.0	Residential	2.83	0.011	0.08
8823	669129.0	4281275.0	Residential	2.76	0.011	0.08
8824	669139.0	4281275.0	Residential	2.66	0.011	0.07
8825	669149.0	4281275.0	Residential	2.55	0.010	0.07
8826	669159.0	4281275.0	Residential	2.44	0.010	0.07
8827	669169.0	4281275.0	Residential	2.32	0.009	0.06
8828	669179.0	4281275.0	Residential	2.20	0.009	0.06
8829	669189.0	4281275.0	Residential	2.08	0.008	0.06
8830	669199.0	4281275.0	Residential	1.95	0.008	0.05
8831	669209.0	4281275.0	Residential	1.84	0.007	0.05
8832	669219.0	4281275.0	Residential	1.73	0.007	0.05
8833	669229.0	4281275.0	Roadway/Open Space	-	-	0.05
8834	669239.0	4281275.0	Roadway/Open Space	-	-	0.04
8835	669249.0	4281275.0	Roadway/Open Space	-	-	0.04
8836	669259.0	4281275.0	Residential	1.33	0.005	0.04
8837	669269.0	4281275.0	Residential	1.25	0.005	0.04
8838	669279.0	4281275.0	Residential	1.17	0.004	0.04
8839	669289.0	4281275.0	Residential	1.10	0.004	0.03
8840	669299.0	4281275.0	Residential	1.04	0.004	0.03
8841	669309.0	4281275.0	Residential	0.98	0.004	0.03
8842	669319.0	4281275.0	Residential	0.92	0.003	0.03
8843	669329.0	4281275.0	Roadway/Open Space	-	-	0.03
8844	669339.0	4281275.0	Residential	0.81	0.003	0.03
8845	669349.0	4281275.0	Residential	0.76	0.003	0.03
8846	669359.0	4281275.0	Residential	0.72	0.003	0.03
8847	669369.0	4281275.0	Residential	0.69	0.003	0.03
8848	669379.0	4281275.0	Residential	0.66	0.002	0.03
8849	669389.0	4281275.0	Residential	0.63	0.002	0.03
8850	669399.0	4281275.0	Residential	0.60	0.002	0.03
8851	669409.0	4281275.0	Residential	0.57	0.002	0.03
8852	669419.0	4281275.0	Roadway/Open Space	-	-	0.03
8853	669429.0	4281275.0	Residential	0.52	0.002	0.02
8854	669439.0	4281275.0	Residential	0.49	0.002	0.02
8855	669449.0	4281275.0	Residential	0.47	0.002	0.02
8856	669459.0	4281275.0	Residential	0.45	0.002	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8857	669469.0	4281275.0	Residential	0.43	0.002	0.02
8858	668559.0	4281285.0	Roadway/Open Space	-	-	0.02
8859	668569.0	4281285.0	Roadway/Open Space	-	-	0.03
8860	668579.0	4281285.0	Roadway/Open Space	-	-	0.03
8861	668589.0	4281285.0	Roadway/Open Space	-	-	0.03
8862	668599.0	4281285.0	Roadway/Open Space	-	-	0.03
8863	668609.0	4281285.0	Roadway/Open Space	-	-	0.03
8864	668619.0	4281285.0	Roadway/Open Space	-	-	0.02
8865	668629.0	4281285.0	Roadway/Open Space	-	-	0.02
8866	668639.0	4281285.0	Roadway/Open Space	-	-	0.02
8867	668649.0	4281285.0	Roadway/Open Space	-	-	0.03
8868	668659.0	4281285.0	Roadway/Open Space	-	-	0.03
8869	668669.0	4281285.0	Roadway/Open Space	-	-	0.03
8870	668679.0	4281285.0	Roadway/Open Space	-	-	0.03
8871	668689.0	4281285.0	Roadway/Open Space	-	-	0.03
8872	668699.0	4281285.0	Roadway/Open Space	-	-	0.04
8873	668709.0	4281285.0	Roadway/Open Space	-	-	0.04
8874	668719.0	4281285.0	Roadway/Open Space	-	-	0.04
8875	668729.0	4281285.0	Roadway/Open Space	-	-	0.04
8876	668739.0	4281285.0	Other Sensitive	0.76	0.003	0.04
8877	668749.0	4281285.0	Other Sensitive	0.80	0.003	0.05
8878	668759.0	4281285.0	Other Sensitive	0.84	0.003	0.05
8879	668769.0	4281285.0	Other Sensitive	0.88	0.003	0.05
8880	668779.0	4281285.0	Other Sensitive	0.91	0.003	0.05
8881	668789.0	4281285.0	Other Sensitive	0.97	0.004	0.05
8882	668799.0	4281285.0	Other Sensitive	1.01	0.004	0.05
8883	668809.0	4281285.0	Other Sensitive	1.04	0.004	0.05
8884	668819.0	4281285.0	Other Sensitive	1.10	0.004	0.06
8885	668829.0	4281285.0	Other Sensitive	1.16	0.004	0.06
8886	668839.0	4281285.0	Other Sensitive	1.23	0.005	0.06
8887	668849.0	4281285.0	Other Sensitive	1.31	0.005	0.06
8888	668859.0	4281285.0	Other Sensitive	1.39	0.005	0.06
8889	668869.0	4281285.0	Other Sensitive	1.47	0.006	0.06
8890	668879.0	4281285.0	Other Sensitive	1.58	0.006	0.07
8891	668889.0	4281285.0	Other Sensitive	1.69	0.006	0.07
8892	668899.0	4281285.0	Other Sensitive	1.80	0.007	0.07
8893	668909.0	4281285.0	Other Sensitive	1.91	0.007	0.08
8894	668919.0	4281285.0	Other Sensitive	2.05	0.008	0.08
8895	668929.0	4281285.0	Other Sensitive	2.15	0.008	0.10
8896	668939.0	4281285.0	Other Sensitive	2.26	0.009	0.10
8897	668949.0	4281285.0	Other Sensitive	2.35	0.009	0.11
8898	668959.0	4281285.0	Other Sensitive	2.41	0.010	0.11
8899	668969.0	4281285.0	Residential	2.43	0.010	0.11
8900	668979.0	4281285.0	Residential	2.43	0.010	0.11
8901	668989.0	4281285.0	Residential	2.40	0.010	0.10
8902	668999.0	4281285.0	Roadway/Open Space	-	-	0.09
8903	669009.0	4281285.0	Roadway/Open Space	-	-	0.09
8904	669019.0	4281285.0	Residential	2.23	0.009	0.08
8905	669029.0	4281285.0	Residential	2.25	0.009	0.08
8906	669039.0	4281285.0	Residential	2.29	0.009	0.08
8907	669049.0	4281285.0	Residential	2.36	0.009	0.08
8908	669059.0	4281285.0	Roadway/Open Space	-	-	0.08
8909	669069.0	4281285.0	Roadway/Open Space	-	-	0.09
8910	669079.0	4281285.0	Roadway/Open Space	-	-	0.09
8911	669089.0	4281285.0	Roadway/Open Space	-	-	0.09
8912	669099.0	4281285.0	Roadway/Open Space	-	-	0.09
8913	669109.0	4281285.0	Roadway/Open Space	-	-	0.08
8914	669119.0	4281285.0	Roadway/Open Space	-	-	0.08
8915	669129.0	4281285.0	Roadway/Open Space	-	-	0.08
8916	669139.0	4281285.0	Roadway/Open Space	-	-	0.07
8917	669149.0	4281285.0	Roadway/Open Space	-	-	0.07
8918	669159.0	4281285.0	Roadway/Open Space	-	-	0.06
8919	669169.0	4281285.0	Roadway/Open Space	-	-	0.06
8920	669179.0	4281285.0	Roadway/Open Space	-	-	0.06
8921	669189.0	4281285.0	Roadway/Open Space	-	-	0.06
8922	669199.0	4281285.0	Roadway/Open Space	-	-	0.05
8923	669209.0	4281285.0	Roadway/Open Space	-	-	0.05
8924	669219.0	4281285.0	Roadway/Open Space	-	-	0.04
8925	669229.0	4281285.0	Residential	1.57	0.006	0.04
8926	669239.0	4281285.0	Residential	1.48	0.006	0.04
8927	669249.0	4281285.0	Residential	1.39	0.005	0.04
8928	669259.0	4281285.0	Residential	1.31	0.005	0.04
8929	669269.0	4281285.0	Residential	1.22	0.005	0.03
8930	669279.0	4281285.0	Residential	1.15	0.004	0.03
8931	669289.0	4281285.0	Residential	1.08	0.004	0.03
8932	669299.0	4281285.0	Residential	1.01	0.004	0.03
8933	669309.0	4281285.0	Residential	0.95	0.004	0.03
8934	669319.0	4281285.0	Residential	0.90	0.003	0.03
8935	669329.0	4281285.0	Residential	0.84	0.003	0.03
8936	669339.0	4281285.0	Roadway/Open Space	-	-	0.03
8937	669349.0	4281285.0	Roadway/Open Space	-	-	0.03
8938	669359.0	4281285.0	Residential	0.70	0.003	0.02
8939	669369.0	4281285.0	Residential	0.67	0.002	0.03
8940	669379.0	4281285.0	Residential	0.64	0.002	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
8941	669389.0	4281285.0	Residential	0.61	0.002	0.03
8942	669399.0	4281285.0	Residential	0.59	0.002	0.03
8943	669409.0	4281285.0	Roadway/Open Space	-	-	0.02
8944	669419.0	4281285.0	Residential	0.53	0.002	0.02
8945	669429.0	4281285.0	Residential	0.51	0.002	0.02
8946	669439.0	4281285.0	Residential	0.48	0.002	0.02
8947	669449.0	4281285.0	Residential	0.46	0.002	0.02
8948	669459.0	4281285.0	Residential	0.43	0.002	0.02
8949	668569.0	4281295.0	Roadway/Open Space	-	-	0.03
8950	668579.0	4281295.0	Roadway/Open Space	-	-	0.03
8951	668589.0	4281295.0	Roadway/Open Space	-	-	0.03
8952	668599.0	4281295.0	Roadway/Open Space	-	-	0.03
8953	668609.0	4281295.0	Roadway/Open Space	-	-	0.03
8954	668619.0	4281295.0	Roadway/Open Space	-	-	0.02
8955	668629.0	4281295.0	Roadway/Open Space	-	-	0.02
8956	668639.0	4281295.0	Roadway/Open Space	-	-	0.03
8957	668649.0	4281295.0	Roadway/Open Space	-	-	0.03
8958	668659.0	4281295.0	Roadway/Open Space	-	-	0.03
8959	668669.0	4281295.0	Roadway/Open Space	-	-	0.03
8960	668679.0	4281295.0	Roadway/Open Space	-	-	0.03
8961	668689.0	4281295.0	Roadway/Open Space	-	-	0.03
8962	668699.0	4281295.0	Roadway/Open Space	-	-	0.04
8963	668709.0	4281295.0	Roadway/Open Space	-	-	0.04
8964	668719.0	4281295.0	Roadway/Open Space	-	-	0.04
8965	668729.0	4281295.0	Roadway/Open Space	-	-	0.04
8966	668739.0	4281295.0	Other Sensitive	0.75	0.003	0.04
8967	668749.0	4281295.0	Other Sensitive	0.79	0.003	0.04
8968	668759.0	4281295.0	Other Sensitive	0.82	0.003	0.05
8969	668769.0	4281295.0	Other Sensitive	0.85	0.003	0.05
8970	668779.0	4281295.0	Other Sensitive	0.89	0.003	0.05
8971	668789.0	4281295.0	Other Sensitive	0.94	0.004	0.05
8972	668799.0	4281295.0	Other Sensitive	0.98	0.004	0.05
8973	668809.0	4281295.0	Other Sensitive	1.01	0.004	0.05
8974	668819.0	4281295.0	Other Sensitive	1.07	0.004	0.05
8975	668829.0	4281295.0	Other Sensitive	1.13	0.004	0.06
8976	668839.0	4281295.0	Other Sensitive	1.20	0.005	0.06
8977	668849.0	4281295.0	Other Sensitive	1.27	0.005	0.06
8978	668859.0	4281295.0	Other Sensitive	1.35	0.005	0.06
8979	668869.0	4281295.0	Other Sensitive	1.43	0.005	0.06
8980	668879.0	4281295.0	Other Sensitive	1.53	0.006	0.06
8981	668889.0	4281295.0	Other Sensitive	1.64	0.006	0.07
8982	668899.0	4281295.0	Other Sensitive	1.74	0.007	0.07
8983	668909.0	4281295.0	Other Sensitive	1.85	0.007	0.08
8984	668919.0	4281295.0	Other Sensitive	1.96	0.008	0.09
8985	668929.0	4281295.0	Other Sensitive	2.07	0.008	0.10
8986	668939.0	4281295.0	Other Sensitive	2.16	0.009	0.10
8987	668949.0	4281295.0	Other Sensitive	2.23	0.009	0.10
8988	668959.0	4281295.0	Other Sensitive	2.27	0.009	0.11
8989	668969.0	4281295.0	Residential	2.28	0.009	0.11
8990	668979.0	4281295.0	Residential	2.27	0.009	0.10
8991	668989.0	4281295.0	Residential	2.23	0.009	0.10
8992	668999.0	4281295.0	Residential	2.15	0.008	0.09
8993	669009.0	4281295.0	Roadway/Open Space	-	-	0.08
8994	669019.0	4281295.0	Roadway/Open Space	-	-	0.07
8995	669029.0	4281295.0	Residential	2.06	0.008	0.07
8996	669039.0	4281295.0	Roadway/Open Space	-	-	0.07
8997	669049.0	4281295.0	Roadway/Open Space	-	-	0.07
8998	669059.0	4281295.0	Roadway/Open Space	-	-	0.08
8999	669069.0	4281295.0	Residential	2.39	0.009	0.08
9000	669079.0	4281295.0	Residential	2.51	0.010	0.08
9001	669089.0	4281295.0	Residential	2.55	0.010	0.08
9002	669099.0	4281295.0	Residential	2.55	0.010	0.08
9003	669109.0	4281295.0	Residential	2.53	0.010	0.08
9004	669119.0	4281295.0	Residential	2.50	0.010	0.07
9005	669129.0	4281295.0	Residential	2.44	0.010	0.07
9006	669139.0	4281295.0	Residential	2.37	0.009	0.07
9007	669149.0	4281295.0	Residential	2.28	0.009	0.06
9008	669159.0	4281295.0	Residential	2.19	0.009	0.06
9009	669169.0	4281295.0	Residential	2.10	0.008	0.06
9010	669179.0	4281295.0	Residential	2.00	0.008	0.05
9011	669189.0	4281295.0	Residential	1.91	0.008	0.05
9012	669199.0	4281295.0	Residential	1.81	0.007	0.05
9013	669209.0	4281295.0	Residential	1.71	0.007	0.05
9014	669219.0	4281295.0	Residential	1.62	0.006	0.04
9015	669229.0	4281295.0	Residential	1.53	0.006	0.04
9016	669239.0	4281295.0	Residential	1.44	0.006	0.04
9017	669249.0	4281295.0	Residential	1.36	0.005	0.04
9018	669259.0	4281295.0	Residential	1.28	0.005	0.04
9019	669269.0	4281295.0	Residential	1.20	0.005	0.03
9020	669279.0	4281295.0	Residential	1.12	0.004	0.03
9021	669289.0	4281295.0	Residential	1.05	0.004	0.03
9022	669299.0	4281295.0	Residential	0.99	0.004	0.03
9023	669309.0	4281295.0	Residential	0.93	0.003	0.03
9024	669319.0	4281295.0	Residential	0.87	0.003	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9025	669329.0	4281295.0	Residential	0.82	0.003	0.03
9026	669339.0	4281295.0	Residential	0.77	0.003	0.02
9027	669349.0	4281295.0	Roadway/Open Space	-	-	0.02
9028	669359.0	4281295.0	Roadway/Open Space	-	-	0.02
9029	669369.0	4281295.0	Residential	0.65	0.002	0.02
9030	669379.0	4281295.0	Residential	0.62	0.002	0.02
9031	669389.0	4281295.0	Residential	0.60	0.002	0.02
9032	669399.0	4281295.0	Roadway/Open Space	-	-	0.02
9033	669409.0	4281295.0	Residential	0.55	0.002	0.02
9034	669419.0	4281295.0	Residential	0.52	0.002	0.02
9035	669429.0	4281295.0	Residential	0.50	0.002	0.02
9036	669439.0	4281295.0	Residential	0.47	0.002	0.02
9037	669449.0	4281295.0	Residential	0.45	0.002	0.02
9038	669459.0	4281295.0	Residential	0.42	0.002	0.02
9039	668579.0	4281305.0	Roadway/Open Space	-	-	0.03
9040	668589.0	4281305.0	Roadway/Open Space	-	-	0.03
9041	668599.0	4281305.0	Roadway/Open Space	-	-	0.03
9042	668609.0	4281305.0	Roadway/Open Space	-	-	0.02
9043	668619.0	4281305.0	Roadway/Open Space	-	-	0.02
9044	668629.0	4281305.0	Roadway/Open Space	-	-	0.03
9045	668639.0	4281305.0	Roadway/Open Space	-	-	0.03
9046	668649.0	4281305.0	Roadway/Open Space	-	-	0.03
9047	668659.0	4281305.0	Roadway/Open Space	-	-	0.03
9048	668669.0	4281305.0	Roadway/Open Space	-	-	0.03
9049	668679.0	4281305.0	Roadway/Open Space	-	-	0.03
9050	668689.0	4281305.0	Roadway/Open Space	-	-	0.04
9051	668699.0	4281305.0	Roadway/Open Space	-	-	0.04
9052	668709.0	4281305.0	Roadway/Open Space	-	-	0.04
9053	668719.0	4281305.0	Roadway/Open Space	-	-	0.04
9054	668729.0	4281305.0	Other Sensitive	0.71	0.003	0.04
9055	668739.0	4281305.0	Other Sensitive	0.74	0.003	0.04
9056	668749.0	4281305.0	Other Sensitive	0.76	0.003	0.04
9057	668759.0	4281305.0	Other Sensitive	0.79	0.003	0.05
9058	668769.0	4281305.0	Other Sensitive	0.82	0.003	0.05
9059	668779.0	4281305.0	Other Sensitive	0.86	0.003	0.05
9060	668789.0	4281305.0	Other Sensitive	0.90	0.003	0.05
9061	668799.0	4281305.0	Other Sensitive	0.94	0.004	0.05
9062	668809.0	4281305.0	Other Sensitive	0.98	0.004	0.05
9063	668819.0	4281305.0	Other Sensitive	1.04	0.004	0.05
9064	668829.0	4281305.0	Other Sensitive	1.10	0.004	0.06
9065	668839.0	4281305.0	Other Sensitive	1.16	0.004	0.06
9066	668849.0	4281305.0	Other Sensitive	1.23	0.005	0.06
9067	668859.0	4281305.0	Other Sensitive	1.31	0.005	0.06
9068	668869.0	4281305.0	Other Sensitive	1.39	0.005	0.06
9069	668879.0	4281305.0	Other Sensitive	1.49	0.006	0.06
9070	668889.0	4281305.0	Other Sensitive	1.59	0.006	0.06
9071	668899.0	4281305.0	Other Sensitive	1.69	0.007	0.07
9072	668909.0	4281305.0	Other Sensitive	1.78	0.007	0.09
9073	668919.0	4281305.0	Other Sensitive	1.88	0.007	0.09
9074	668929.0	4281305.0	Other Sensitive	1.98	0.008	0.09
9075	668939.0	4281305.0	Other Sensitive	2.06	0.008	0.10
9076	668949.0	4281305.0	Other Sensitive	2.12	0.008	0.10
9077	668959.0	4281305.0	Residential	2.15	0.009	0.10
9078	668969.0	4281305.0	Residential	2.16	0.009	0.10
9079	668979.0	4281305.0	Residential	2.14	0.008	0.10
9080	668989.0	4281305.0	Residential	2.08	0.008	0.09
9081	668999.0	4281305.0	Residential	2.01	0.008	0.08
9082	669009.0	4281305.0	Residential	1.94	0.008	0.08
9083	669019.0	4281305.0	Roadway/Open Space	-	-	0.07
9084	669029.0	4281305.0	Roadway/Open Space	-	-	0.07
9085	669039.0	4281305.0	Residential	1.96	0.008	0.07
9086	669049.0	4281305.0	Residential	2.03	0.008	0.07
9087	669059.0	4281305.0	Residential	2.11	0.008	0.07
9088	669069.0	4281305.0	Residential	2.21	0.009	0.07
9089	669079.0	4281305.0	Residential	2.31	0.009	0.08
9090	669089.0	4281305.0	Residential	2.38	0.009	0.08
9091	669099.0	4281305.0	Residential	2.39	0.010	0.08
9092	669109.0	4281305.0	Residential	2.38	0.010	0.08
9093	669119.0	4281305.0	Residential	2.35	0.009	0.07
9094	669129.0	4281305.0	Residential	2.30	0.009	0.07
9095	669139.0	4281305.0	Residential	2.23	0.009	0.07
9096	669149.0	4281305.0	Residential	2.16	0.009	0.06
9097	669159.0	4281305.0	Residential	2.08	0.008	0.06
9098	669169.0	4281305.0	Residential	2.00	0.008	0.05
9099	669179.0	4281305.0	Residential	1.91	0.008	0.05
9100	669189.0	4281305.0	Residential	1.83	0.007	0.05
9101	669199.0	4281305.0	Residential	1.74	0.007	0.05
9102	669209.0	4281305.0	Residential	1.65	0.006	0.05
9103	669219.0	4281305.0	Residential	1.56	0.006	0.04
9104	669229.0	4281305.0	Residential	1.48	0.006	0.04
9105	669239.0	4281305.0	Residential	1.40	0.005	0.04
9106	669249.0	4281305.0	Residential	1.32	0.005	0.04
9107	669259.0	4281305.0	Residential	1.25	0.005	0.04
9108	669269.0	4281305.0	Residential	1.18	0.004	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9109	669279.0	4281305.0	Residential	1.10	0.004	0.03
9110	669289.0	4281305.0	Residential	1.03	0.004	0.03
9111	669299.0	4281305.0	Residential	0.97	0.004	0.03
9112	669309.0	4281305.0	Residential	0.91	0.003	0.03
9113	669319.0	4281305.0	Residential	0.85	0.003	0.03
9114	669329.0	4281305.0	Residential	0.80	0.003	0.02
9115	669339.0	4281305.0	Residential	0.75	0.003	0.02
9116	669349.0	4281305.0	Residential	0.71	0.003	0.02
9117	669359.0	4281305.0	Roadway/Open Space	-	-	0.02
9118	669369.0	4281305.0	Residential	0.64	0.002	0.02
9119	669379.0	4281305.0	Residential	0.61	0.002	0.02
9120	669389.0	4281305.0	Roadway/Open Space	-	-	0.02
9121	669399.0	4281305.0	Residential	0.57	0.002	0.02
9122	669409.0	4281305.0	Residential	0.55	0.002	0.02
9123	669419.0	4281305.0	Residential	0.52	0.002	0.02
9124	669429.0	4281305.0	Residential	0.49	0.002	0.02
9125	669439.0	4281305.0	Residential	0.46	0.002	0.02
9126	669449.0	4281305.0	Residential	0.43	0.002	0.02
9127	668579.0	4281315.0	Roadway/Open Space	-	-	0.03
9128	668589.0	4281315.0	Roadway/Open Space	-	-	0.03
9129	668599.0	4281315.0	Roadway/Open Space	-	-	0.03
9130	668609.0	4281315.0	Roadway/Open Space	-	-	0.02
9131	668619.0	4281315.0	Roadway/Open Space	-	-	0.02
9132	668629.0	4281315.0	Roadway/Open Space	-	-	0.03
9133	668639.0	4281315.0	Roadway/Open Space	-	-	0.03
9134	668649.0	4281315.0	Roadway/Open Space	-	-	0.03
9135	668659.0	4281315.0	Roadway/Open Space	-	-	0.03
9136	668669.0	4281315.0	Roadway/Open Space	-	-	0.03
9137	668679.0	4281315.0	Roadway/Open Space	-	-	0.03
9138	668689.0	4281315.0	Roadway/Open Space	-	-	0.04
9139	668699.0	4281315.0	Roadway/Open Space	-	-	0.04
9140	668709.0	4281315.0	Roadway/Open Space	-	-	0.04
9141	668719.0	4281315.0	Roadway/Open Space	-	-	0.04
9142	668729.0	4281315.0	Other Sensitive	0.69	0.003	0.04
9143	668739.0	4281315.0	Other Sensitive	0.72	0.003	0.04
9144	668749.0	4281315.0	Other Sensitive	0.74	0.003	0.04
9145	668759.0	4281315.0	Other Sensitive	0.77	0.003	0.04
9146	668769.0	4281315.0	Other Sensitive	0.79	0.003	0.05
9147	668779.0	4281315.0	Other Sensitive	0.82	0.003	0.05
9148	668789.0	4281315.0	Other Sensitive	0.86	0.003	0.05
9149	668799.0	4281315.0	Other Sensitive	0.90	0.003	0.05
9150	668809.0	4281315.0	Other Sensitive	0.95	0.004	0.05
9151	668819.0	4281315.0	Other Sensitive	1.01	0.004	0.05
9152	668829.0	4281315.0	Other Sensitive	1.07	0.004	0.05
9153	668839.0	4281315.0	Other Sensitive	1.13	0.004	0.05
9154	668849.0	4281315.0	Other Sensitive	1.20	0.005	0.06
9155	668859.0	4281315.0	Other Sensitive	1.28	0.005	0.06
9156	668869.0	4281315.0	Other Sensitive	1.36	0.005	0.06
9157	668879.0	4281315.0	Other Sensitive	1.44	0.006	0.06
9158	668889.0	4281315.0	Other Sensitive	1.54	0.006	0.06
9159	668899.0	4281315.0	Other Sensitive	1.63	0.006	0.08
9160	668909.0	4281315.0	Other Sensitive	1.71	0.007	0.09
9161	668919.0	4281315.0	Other Sensitive	1.80	0.007	0.09
9162	668929.0	4281315.0	Other Sensitive	1.89	0.007	0.09
9163	668939.0	4281315.0	Other Sensitive	1.97	0.008	0.09
9164	668949.0	4281315.0	Residential	2.03	0.008	0.10
9165	668959.0	4281315.0	Residential	2.05	0.008	0.10
9166	668969.0	4281315.0	Residential	2.04	0.008	0.10
9167	668979.0	4281315.0	Residential	2.01	0.008	0.09
9168	668989.0	4281315.0	Residential	1.95	0.008	0.09
9169	668999.0	4281315.0	Residential	1.91	0.008	0.08
9170	669009.0	4281315.0	Roadway/Open Space	-	-	0.08
9171	669019.0	4281315.0	Roadway/Open Space	-	-	0.07
9172	669029.0	4281315.0	Roadway/Open Space	-	-	0.07
9173	669039.0	4281315.0	Residential	1.83	0.007	0.06
9174	669049.0	4281315.0	Residential	1.89	0.007	0.07
9175	669059.0	4281315.0	Residential	1.97	0.008	0.07
9176	669069.0	4281315.0	Residential	2.06	0.008	0.07
9177	669079.0	4281315.0	Residential	2.14	0.008	0.07
9178	669089.0	4281315.0	Residential	2.22	0.009	0.07
9179	669099.0	4281315.0	Residential	2.25	0.009	0.07
9180	669109.0	4281315.0	Residential	2.24	0.009	0.07
9181	669119.0	4281315.0	Residential	2.22	0.009	0.07
9182	669129.0	4281315.0	Residential	2.18	0.009	0.06
9183	669139.0	4281315.0	Residential	2.11	0.008	0.06
9184	669149.0	4281315.0	Residential	2.05	0.008	0.06
9185	669159.0	4281315.0	Residential	1.98	0.008	0.06
9186	669169.0	4281315.0	Residential	1.90	0.008	0.05
9187	669179.0	4281315.0	Residential	1.82	0.007	0.05
9188	669189.0	4281315.0	Residential	1.74	0.007	0.05
9189	669199.0	4281315.0	Residential	1.67	0.007	0.04
9190	669209.0	4281315.0	Residential	1.59	0.006	0.04
9191	669219.0	4281315.0	Residential	1.51	0.006	0.04
9192	669229.0	4281315.0	Residential	1.43	0.006	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9193	669239.0	4281315.0	Residential	1.35	0.005	0.04
9194	669249.0	4281315.0	Residential	1.28	0.005	0.03
9195	669259.0	4281315.0	Residential	1.21	0.005	0.03
9196	669269.0	4281315.0	Residential	1.14	0.004	0.03
9197	669279.0	4281315.0	Residential	1.07	0.004	0.03
9198	669289.0	4281315.0	Residential	1.01	0.004	0.03
9199	669299.0	4281315.0	Residential	0.95	0.004	0.03
9200	669309.0	4281315.0	Residential	0.89	0.003	0.03
9201	669319.0	4281315.0	Residential	0.84	0.003	0.02
9202	669329.0	4281315.0	Residential	0.79	0.003	0.02
9203	669339.0	4281315.0	Residential	0.74	0.003	0.02
9204	669349.0	4281315.0	Residential	0.70	0.003	0.02
9205	669359.0	4281315.0	Residential	0.66	0.002	0.02
9206	669369.0	4281315.0	Roadway/Open Space	-	-	0.02
9207	669379.0	4281315.0	Roadway/Open Space	-	-	0.02
9208	669389.0	4281315.0	Residential	0.58	0.002	0.02
9209	669399.0	4281315.0	Residential	0.56	0.002	0.02
9210	669409.0	4281315.0	Residential	0.54	0.002	0.02
9211	669419.0	4281315.0	Residential	0.51	0.002	0.02
9212	669429.0	4281315.0	Residential	0.48	0.002	0.02
9213	669439.0	4281315.0	Residential	0.45	0.002	0.02
9214	668589.0	4281325.0	Roadway/Open Space	-	-	0.03
9215	668599.0	4281325.0	Roadway/Open Space	-	-	0.03
9216	668609.0	4281325.0	Roadway/Open Space	-	-	0.02
9217	668619.0	4281325.0	Roadway/Open Space	-	-	0.02
9218	668629.0	4281325.0	Roadway/Open Space	-	-	0.03
9219	668639.0	4281325.0	Roadway/Open Space	-	-	0.03
9220	668649.0	4281325.0	Roadway/Open Space	-	-	0.03
9221	668659.0	4281325.0	Roadway/Open Space	-	-	0.03
9222	668669.0	4281325.0	Roadway/Open Space	-	-	0.03
9223	668679.0	4281325.0	Roadway/Open Space	-	-	0.03
9224	668689.0	4281325.0	Roadway/Open Space	-	-	0.03
9225	668699.0	4281325.0	Roadway/Open Space	-	-	0.04
9226	668709.0	4281325.0	Roadway/Open Space	-	-	0.04
9227	668719.0	4281325.0	Other Sensitive	0.66	0.003	0.04
9228	668729.0	4281325.0	Other Sensitive	0.68	0.003	0.04
9229	668739.0	4281325.0	Other Sensitive	0.70	0.003	0.04
9230	668749.0	4281325.0	Other Sensitive	0.72	0.003	0.04
9231	668759.0	4281325.0	Other Sensitive	0.75	0.003	0.04
9232	668769.0	4281325.0	Other Sensitive	0.77	0.003	0.04
9233	668779.0	4281325.0	Other Sensitive	0.79	0.003	0.04
9234	668789.0	4281325.0	Other Sensitive	0.83	0.003	0.05
9235	668799.0	4281325.0	Other Sensitive	0.87	0.003	0.05
9236	668809.0	4281325.0	Other Sensitive	0.93	0.004	0.05
9237	668819.0	4281325.0	Other Sensitive	0.98	0.004	0.05
9238	668829.0	4281325.0	Other Sensitive	1.04	0.004	0.05
9239	668839.0	4281325.0	Other Sensitive	1.11	0.004	0.05
9240	668849.0	4281325.0	Other Sensitive	1.17	0.004	0.05
9241	668859.0	4281325.0	Other Sensitive	1.24	0.005	0.06
9242	668869.0	4281325.0	Other Sensitive	1.31	0.005	0.06
9243	668879.0	4281325.0	Other Sensitive	1.40	0.005	0.06
9244	668889.0	4281325.0	Other Sensitive	1.49	0.006	0.07
9245	668899.0	4281325.0	Other Sensitive	1.57	0.006	0.08
9246	668909.0	4281325.0	Other Sensitive	1.64	0.006	0.08
9247	668919.0	4281325.0	Other Sensitive	1.73	0.007	0.08
9248	668929.0	4281325.0	Other Sensitive	1.81	0.007	0.09
9249	668939.0	4281325.0	Other Sensitive	1.88	0.007	0.09
9250	668949.0	4281325.0	Residential	1.94	0.008	0.10
9251	668959.0	4281325.0	Residential	1.95	0.008	0.10
9252	668969.0	4281325.0	Residential	1.93	0.008	0.09
9253	668979.0	4281325.0	Residential	1.89	0.008	0.09
9254	668989.0	4281325.0	Residential	1.85	0.007	0.08
9255	668999.0	4281325.0	Roadway/Open Space	-	-	0.08
9256	669009.0	4281325.0	Residential	1.77	0.007	0.08
9257	669019.0	4281325.0	Residential	1.74	0.007	0.07
9258	669029.0	4281325.0	Roadway/Open Space	-	-	0.07
9259	669039.0	4281325.0	Roadway/Open Space	-	-	0.06
9260	669049.0	4281325.0	Residential	1.77	0.007	0.06
9261	669059.0	4281325.0	Residential	1.85	0.007	0.07
9262	669069.0	4281325.0	Residential	1.93	0.008	0.07
9263	669079.0	4281325.0	Residential	2.01	0.008	0.07
9264	669089.0	4281325.0	Residential	2.07	0.008	0.07
9265	669099.0	4281325.0	Residential	2.11	0.008	0.07
9266	669109.0	4281325.0	Residential	2.12	0.008	0.07
9267	669119.0	4281325.0	Residential	2.10	0.008	0.07
9268	669129.0	4281325.0	Residential	2.05	0.008	0.06
9269	669139.0	4281325.0	Residential	2.00	0.008	0.06
9270	669149.0	4281325.0	Residential	1.94	0.008	0.06
9271	669159.0	4281325.0	Residential	1.87	0.007	0.05
9272	669169.0	4281325.0	Residential	1.80	0.007	0.05
9273	669179.0	4281325.0	Residential	1.74	0.007	0.05
9274	669189.0	4281325.0	Residential	1.67	0.007	0.05
9275	669199.0	4281325.0	Residential	1.60	0.006	0.04
9276	669209.0	4281325.0	Residential	1.53	0.006	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9277	669219.0	4281325.0	Residential	1.46	0.006	0.04
9278	669229.0	4281325.0	Residential	1.38	0.005	0.04
9279	669239.0	4281325.0	Residential	1.31	0.005	0.03
9280	669249.0	4281325.0	Residential	1.24	0.005	0.03
9281	669259.0	4281325.0	Residential	1.17	0.004	0.03
9282	669269.0	4281325.0	Residential	1.11	0.004	0.03
9283	669279.0	4281325.0	Residential	1.04	0.004	0.03
9284	669289.0	4281325.0	Residential	0.98	0.004	0.03
9285	669299.0	4281325.0	Residential	0.93	0.003	0.02
9286	669309.0	4281325.0	Residential	0.87	0.003	0.02
9287	669319.0	4281325.0	Residential	0.82	0.003	0.02
9288	669329.0	4281325.0	Residential	0.77	0.003	0.02
9289	669339.0	4281325.0	Residential	0.73	0.003	0.02
9290	669349.0	4281325.0	Residential	0.68	0.003	0.02
9291	669359.0	4281325.0	Roadway/Open Space	-	-	0.02
9292	669369.0	4281325.0	Roadway/Open Space	-	-	0.02
9293	669379.0	4281325.0	Roadway/Open Space	-	-	0.02
9294	669389.0	4281325.0	Residential	0.57	0.002	0.02
9295	669399.0	4281325.0	Residential	0.56	0.002	0.02
9296	669409.0	4281325.0	Residential	0.54	0.002	0.02
9297	669419.0	4281325.0	Residential	0.51	0.002	0.02
9298	669429.0	4281325.0	Residential	0.47	0.002	0.02
9299	668599.0	4281335.0	Roadway/Open Space	-	-	0.03
9300	668609.0	4281335.0	Roadway/Open Space	-	-	0.02
9301	668619.0	4281335.0	Roadway/Open Space	-	-	0.02
9302	668629.0	4281335.0	Roadway/Open Space	-	-	0.02
9303	668639.0	4281335.0	Roadway/Open Space	-	-	0.03
9304	668649.0	4281335.0	Roadway/Open Space	-	-	0.03
9305	668659.0	4281335.0	Roadway/Open Space	-	-	0.03
9306	668669.0	4281335.0	Roadway/Open Space	-	-	0.03
9307	668679.0	4281335.0	Roadway/Open Space	-	-	0.03
9308	668689.0	4281335.0	Roadway/Open Space	-	-	0.03
9309	668699.0	4281335.0	Roadway/Open Space	-	-	0.04
9310	668709.0	4281335.0	Roadway/Open Space	-	-	0.04
9311	668719.0	4281335.0	Other Sensitive	0.66	0.002	0.04
9312	668729.0	4281335.0	Other Sensitive	0.67	0.003	0.04
9313	668739.0	4281335.0	Other Sensitive	0.69	0.003	0.04
9314	668749.0	4281335.0	Other Sensitive	0.71	0.003	0.04
9315	668759.0	4281335.0	Other Sensitive	0.73	0.003	0.04
9316	668769.0	4281335.0	Other Sensitive	0.75	0.003	0.04
9317	668779.0	4281335.0	Other Sensitive	0.77	0.003	0.04
9318	668789.0	4281335.0	Other Sensitive	0.81	0.003	0.04
9319	668799.0	4281335.0	Other Sensitive	0.85	0.003	0.05
9320	668809.0	4281335.0	Other Sensitive	0.90	0.003	0.05
9321	668819.0	4281335.0	Other Sensitive	0.96	0.004	0.05
9322	668829.0	4281335.0	Other Sensitive	1.02	0.004	0.05
9323	668839.0	4281335.0	Other Sensitive	1.08	0.004	0.05
9324	668849.0	4281335.0	Other Sensitive	1.14	0.004	0.05
9325	668859.0	4281335.0	Other Sensitive	1.20	0.005	0.05
9326	668869.0	4281335.0	Other Sensitive	1.27	0.005	0.06
9327	668879.0	4281335.0	Other Sensitive	1.36	0.005	0.06
9328	668889.0	4281335.0	Other Sensitive	1.43	0.006	0.07
9329	668899.0	4281335.0	Other Sensitive	1.51	0.006	0.08
9330	668909.0	4281335.0	Other Sensitive	1.58	0.006	0.08
9331	668919.0	4281335.0	Other Sensitive	1.66	0.007	0.08
9332	668929.0	4281335.0	Other Sensitive	1.73	0.007	0.09
9333	668939.0	4281335.0	Residential	1.80	0.007	0.09
9334	668949.0	4281335.0	Residential	1.84	0.007	0.09
9335	668959.0	4281335.0	Residential	1.85	0.007	0.09
9336	668969.0	4281335.0	Residential	1.82	0.007	0.09
9337	668979.0	4281335.0	Residential	1.79	0.007	0.08
9338	668989.0	4281335.0	Roadway/Open Space	-	-	0.08
9339	668999.0	4281335.0	Residential	1.72	0.007	0.08
9340	669009.0	4281335.0	Residential	1.69	0.007	0.07
9341	669019.0	4281335.0	Residential	1.66	0.007	0.07
9342	669029.0	4281335.0	Residential	1.64	0.006	0.07
9343	669039.0	4281335.0	Roadway/Open Space	-	-	0.06
9344	669049.0	4281335.0	Residential	1.66	0.007	0.06
9345	669059.0	4281335.0	Residential	1.73	0.007	0.06
9346	669069.0	4281335.0	Residential	1.82	0.007	0.06
9347	669079.0	4281335.0	Residential	1.89	0.007	0.07
9348	669089.0	4281335.0	Residential	1.95	0.008	0.07
9349	669099.0	4281335.0	Residential	1.99	0.008	0.07
9350	669109.0	4281335.0	Residential	2.00	0.008	0.07
9351	669119.0	4281335.0	Residential	1.98	0.008	0.06
9352	669129.0	4281335.0	Residential	1.94	0.008	0.06
9353	669139.0	4281335.0	Residential	1.89	0.007	0.06
9354	669149.0	4281335.0	Residential	1.83	0.007	0.06
9355	669159.0	4281335.0	Residential	1.78	0.007	0.05
9356	669169.0	4281335.0	Residential	1.72	0.007	0.05
9357	669179.0	4281335.0	Residential	1.66	0.007	0.04
9358	669189.0	4281335.0	Residential	1.60	0.006	0.04
9359	669199.0	4281335.0	Residential	1.54	0.006	0.04
9360	669209.0	4281335.0	Residential	1.47	0.006	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9361	669219.0	4281335.0	Residential	1.40	0.005	0.04
9362	669229.0	4281335.0	Residential	1.34	0.005	0.04
9363	669239.0	4281335.0	Residential	1.27	0.005	0.03
9364	669249.0	4281335.0	Residential	1.20	0.005	0.03
9365	669259.0	4281335.0	Residential	1.13	0.004	0.03
9366	669269.0	4281335.0	Residential	1.07	0.004	0.03
9367	669279.0	4281335.0	Residential	1.02	0.004	0.03
9368	669289.0	4281335.0	Residential	0.96	0.004	0.03
9369	669299.0	4281335.0	Residential	0.90	0.003	0.02
9370	669309.0	4281335.0	Residential	0.85	0.003	0.02
9371	669319.0	4281335.0	Residential	0.81	0.003	0.02
9372	669329.0	4281335.0	Residential	0.76	0.003	0.02
9373	669339.0	4281335.0	Residential	0.71	0.003	0.02
9374	669349.0	4281335.0	Roadway/Open Space	-	-	0.02
9375	669359.0	4281335.0	Roadway/Open Space	-	-	0.02
9376	669369.0	4281335.0	Residential	0.60	0.002	0.02
9377	669379.0	4281335.0	Roadway/Open Space	-	-	0.02
9378	669389.0	4281335.0	Roadway/Open Space	-	-	0.02
9379	669399.0	4281335.0	Residential	0.55	0.002	0.02
9380	669409.0	4281335.0	Residential	0.54	0.002	0.02
9381	669419.0	4281335.0	Residential	0.51	0.002	0.02
9382	669429.0	4281335.0	Residential	0.47	0.002	0.02
9383	668599.0	4281345.0	Roadway/Open Space	-	-	0.02
9384	668609.0	4281345.0	Roadway/Open Space	-	-	0.02
9385	668619.0	4281345.0	Roadway/Open Space	-	-	0.02
9386	668629.0	4281345.0	Roadway/Open Space	-	-	0.02
9387	668639.0	4281345.0	Roadway/Open Space	-	-	0.03
9388	668649.0	4281345.0	Roadway/Open Space	-	-	0.03
9389	668659.0	4281345.0	Roadway/Open Space	-	-	0.03
9390	668669.0	4281345.0	Roadway/Open Space	-	-	0.03
9391	668679.0	4281345.0	Roadway/Open Space	-	-	0.03
9392	668689.0	4281345.0	Roadway/Open Space	-	-	0.03
9393	668699.0	4281345.0	Roadway/Open Space	-	-	0.03
9394	668709.0	4281345.0	Roadway/Open Space	-	-	0.04
9395	668719.0	4281345.0	Other Sensitive	0.65	0.002	0.04
9396	668729.0	4281345.0	Other Sensitive	0.67	0.003	0.04
9397	668739.0	4281345.0	Other Sensitive	0.68	0.003	0.04
9398	668749.0	4281345.0	Other Sensitive	0.70	0.003	0.04
9399	668759.0	4281345.0	Other Sensitive	0.71	0.003	0.04
9400	668769.0	4281345.0	Other Sensitive	0.73	0.003	0.04
9401	668779.0	4281345.0	Other Sensitive	0.75	0.003	0.04
9402	668789.0	4281345.0	Other Sensitive	0.79	0.003	0.04
9403	668799.0	4281345.0	Other Sensitive	0.83	0.003	0.05
9404	668809.0	4281345.0	Other Sensitive	0.88	0.003	0.05
9405	668819.0	4281345.0	Other Sensitive	0.93	0.004	0.05
9406	668829.0	4281345.0	Other Sensitive	0.99	0.004	0.05
9407	668839.0	4281345.0	Other Sensitive	1.04	0.004	0.05
9408	668849.0	4281345.0	Other Sensitive	1.10	0.004	0.05
9409	668859.0	4281345.0	Other Sensitive	1.16	0.004	0.05
9410	668869.0	4281345.0	Other Sensitive	1.24	0.005	0.06
9411	668879.0	4281345.0	Other Sensitive	1.31	0.005	0.06
9412	668889.0	4281345.0	Other Sensitive	1.38	0.005	0.07
9413	668899.0	4281345.0	Other Sensitive	1.45	0.006	0.08
9414	668909.0	4281345.0	Other Sensitive	1.52	0.006	0.08
9415	668919.0	4281345.0	Other Sensitive	1.59	0.006	0.08
9416	668929.0	4281345.0	Residential	1.66	0.007	0.08
9417	668939.0	4281345.0	Residential	1.71	0.007	0.09
9418	668949.0	4281345.0	Residential	1.74	0.007	0.09
9419	668959.0	4281345.0	Residential	1.74	0.007	0.09
9420	668969.0	4281345.0	Residential	1.72	0.007	0.08
9421	668979.0	4281345.0	Roadway/Open Space	-	-	0.08
9422	668989.0	4281345.0	Residential	1.65	0.007	0.08
9423	668999.0	4281345.0	Residential	1.63	0.006	0.08
9424	669009.0	4281345.0	Residential	1.60	0.006	0.07
9425	669019.0	4281345.0	Residential	1.58	0.006	0.07
9426	669029.0	4281345.0	Residential	1.56	0.006	0.06
9427	669039.0	4281345.0	Residential	1.55	0.006	0.06
9428	669049.0	4281345.0	Roadway/Open Space	-	-	0.06
9429	669059.0	4281345.0	Residential	1.62	0.006	0.06
9430	669069.0	4281345.0	Residential	1.70	0.007	0.06
9431	669079.0	4281345.0	Residential	1.78	0.007	0.06
9432	669089.0	4281345.0	Residential	1.84	0.007	0.06
9433	669099.0	4281345.0	Residential	1.88	0.007	0.06
9434	669109.0	4281345.0	Residential	1.89	0.007	0.06
9435	669119.0	4281345.0	Residential	1.86	0.007	0.06
9436	669129.0	4281345.0	Residential	1.83	0.007	0.06
9437	669139.0	4281345.0	Residential	1.78	0.007	0.05
9438	669149.0	4281345.0	Residential	1.74	0.007	0.05
9439	669159.0	4281345.0	Residential	1.68	0.007	0.05
9440	669169.0	4281345.0	Residential	1.63	0.006	0.05
9441	669179.0	4281345.0	Residential	1.58	0.006	0.04
9442	669189.0	4281345.0	Residential	1.53	0.006	0.04
9443	669199.0	4281345.0	Residential	1.47	0.006	0.04
9444	669209.0	4281345.0	Residential	1.41	0.006	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9445	669219.0	4281345.0	Residential	1.35	0.005	0.04
9446	669229.0	4281345.0	Residential	1.29	0.005	0.03
9447	669239.0	4281345.0	Residential	1.22	0.005	0.03
9448	669249.0	4281345.0	Residential	1.16	0.004	0.03
9449	669259.0	4281345.0	Residential	1.10	0.004	0.03
9450	669269.0	4281345.0	Residential	1.04	0.004	0.03
9451	669279.0	4281345.0	Residential	0.98	0.004	0.03
9452	669289.0	4281345.0	Residential	0.93	0.004	0.02
9453	669299.0	4281345.0	Residential	0.88	0.003	0.02
9454	669309.0	4281345.0	Residential	0.84	0.003	0.02
9455	669319.0	4281345.0	Residential	0.79	0.003	0.02
9456	669329.0	4281345.0	Roadway/Open Space	-	-	0.02
9457	669339.0	4281345.0	Roadway/Open Space	-	-	0.02
9458	669349.0	4281345.0	Residential	0.66	0.002	0.02
9459	669359.0	4281345.0	Residential	0.63	0.002	0.02
9460	669369.0	4281345.0	Residential	0.59	0.002	0.02
9461	669379.0	4281345.0	Residential	0.57	0.002	0.02
9462	669389.0	4281345.0	Roadway/Open Space	-	-	0.02
9463	669399.0	4281345.0	Residential	0.54	0.002	0.02
9464	669409.0	4281345.0	Residential	0.53	0.002	0.02
9465	669419.0	4281345.0	Residential	0.50	0.002	0.02
9466	668609.0	4281355.0	Roadway/Open Space	-	-	0.02
9467	668619.0	4281355.0	Roadway/Open Space	-	-	0.02
9468	668629.0	4281355.0	Roadway/Open Space	-	-	0.02
9469	668639.0	4281355.0	Roadway/Open Space	-	-	0.02
9470	668649.0	4281355.0	Roadway/Open Space	-	-	0.03
9471	668659.0	4281355.0	Roadway/Open Space	-	-	0.03
9472	668669.0	4281355.0	Roadway/Open Space	-	-	0.03
9473	668679.0	4281355.0	Roadway/Open Space	-	-	0.03
9474	668689.0	4281355.0	Roadway/Open Space	-	-	0.03
9475	668699.0	4281355.0	Roadway/Open Space	-	-	0.03
9476	668709.0	4281355.0	Roadway/Open Space	-	-	0.04
9477	668719.0	4281355.0	Roadway/Open Space	-	-	0.04
9478	668729.0	4281355.0	Other Sensitive	0.65	0.002	0.04
9479	668739.0	4281355.0	Other Sensitive	0.67	0.003	0.04
9480	668749.0	4281355.0	Other Sensitive	0.68	0.003	0.04
9481	668759.0	4281355.0	Other Sensitive	0.70	0.003	0.04
9482	668769.0	4281355.0	Other Sensitive	0.72	0.003	0.04
9483	668779.0	4281355.0	Other Sensitive	0.74	0.003	0.04
9484	668789.0	4281355.0	Other Sensitive	0.77	0.003	0.04
9485	668799.0	4281355.0	Other Sensitive	0.82	0.003	0.04
9486	668809.0	4281355.0	Other Sensitive	0.87	0.003	0.04
9487	668819.0	4281355.0	Other Sensitive	0.92	0.004	0.05
9488	668829.0	4281355.0	Other Sensitive	0.97	0.004	0.05
9489	668839.0	4281355.0	Other Sensitive	1.02	0.004	0.05
9490	668849.0	4281355.0	Other Sensitive	1.08	0.004	0.05
9491	668859.0	4281355.0	Other Sensitive	1.15	0.004	0.05
9492	668869.0	4281355.0	Other Sensitive	1.21	0.005	0.06
9493	668879.0	4281355.0	Other Sensitive	1.27	0.005	0.07
9494	668889.0	4281355.0	Other Sensitive	1.33	0.005	0.07
9495	668899.0	4281355.0	Other Sensitive	1.40	0.005	0.07
9496	668909.0	4281355.0	Other Sensitive	1.46	0.006	0.07
9497	668919.0	4281355.0	Residential	1.53	0.006	0.08
9498	668929.0	4281355.0	Residential	1.59	0.006	0.08
9499	668939.0	4281355.0	Residential	1.63	0.006	0.08
9500	668949.0	4281355.0	Residential	1.65	0.007	0.08
9501	668959.0	4281355.0	Residential	1.64	0.007	0.08
9502	668969.0	4281355.0	Roadway/Open Space	-	-	0.08
9503	668979.0	4281355.0	Roadway/Open Space	-	-	0.08
9504	668989.0	4281355.0	Residential	1.57	0.006	0.07
9505	668999.0	4281355.0	Residential	1.54	0.006	0.07
9506	669009.0	4281355.0	Residential	1.52	0.006	0.07
9507	669019.0	4281355.0	Residential	1.50	0.006	0.07
9508	669029.0	4281355.0	Residential	1.48	0.006	0.06
9509	669039.0	4281355.0	Residential	1.48	0.006	0.06
9510	669049.0	4281355.0	Roadway/Open Space	-	-	0.06
9511	669059.0	4281355.0	Residential	1.53	0.006	0.06
9512	669069.0	4281355.0	Residential	1.60	0.006	0.06
9513	669079.0	4281355.0	Residential	1.66	0.007	0.06
9514	669089.0	4281355.0	Residential	1.72	0.007	0.06
9515	669099.0	4281355.0	Residential	1.76	0.007	0.06
9516	669109.0	4281355.0	Residential	1.76	0.007	0.06
9517	669119.0	4281355.0	Residential	1.75	0.007	0.06
9518	669129.0	4281355.0	Residential	1.72	0.007	0.05
9519	669139.0	4281355.0	Residential	1.68	0.007	0.05
9520	669149.0	4281355.0	Residential	1.64	0.006	0.05
9521	669159.0	4281355.0	Residential	1.59	0.006	0.05
9522	669169.0	4281355.0	Residential	1.55	0.006	0.04
9523	669179.0	4281355.0	Residential	1.50	0.006	0.04
9524	669189.0	4281355.0	Residential	1.46	0.006	0.04
9525	669199.0	4281355.0	Residential	1.41	0.006	0.04
9526	669209.0	4281355.0	Residential	1.36	0.005	0.04
9527	669219.0	4281355.0	Residential	1.30	0.005	0.04
9528	669229.0	4281355.0	Residential	1.24	0.005	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9529	669239.0	4281355.0	Residential	1.18	0.005	0.03
9530	669249.0	4281355.0	Residential	1.12	0.004	0.03
9531	669259.0	4281355.0	Residential	1.07	0.004	0.03
9532	669269.0	4281355.0	Residential	1.01	0.004	0.03
9533	669279.0	4281355.0	Residential	0.96	0.004	0.02
9534	669289.0	4281355.0	Residential	0.90	0.003	0.02
9535	669299.0	4281355.0	Residential	0.86	0.003	0.02
9536	669309.0	4281355.0	Roadway/Open Space	-	-	0.02
9537	669319.0	4281355.0	Roadway/Open Space	-	-	0.02
9538	669329.0	4281355.0	Residential	0.74	0.003	0.02
9539	669339.0	4281355.0	Residential	0.69	0.003	0.02
9540	669349.0	4281355.0	Residential	0.65	0.002	0.02
9541	669359.0	4281355.0	Residential	0.62	0.002	0.02
9542	669369.0	4281355.0	Residential	0.59	0.002	0.02
9543	669379.0	4281355.0	Residential	0.56	0.002	0.02
9544	669389.0	4281355.0	Residential	0.54	0.002	0.02
9545	669399.0	4281355.0	Roadway/Open Space	-	-	0.02
9546	669409.0	4281355.0	Residential	0.51	0.002	0.02
9547	668619.0	4281365.0	Roadway/Open Space	-	-	0.02
9548	668629.0	4281365.0	Roadway/Open Space	-	-	0.02
9549	668639.0	4281365.0	Roadway/Open Space	-	-	0.02
9550	668649.0	4281365.0	Roadway/Open Space	-	-	0.02
9551	668659.0	4281365.0	Roadway/Open Space	-	-	0.02
9552	668669.0	4281365.0	Roadway/Open Space	-	-	0.03
9553	668679.0	4281365.0	Roadway/Open Space	-	-	0.03
9554	668689.0	4281365.0	Roadway/Open Space	-	-	0.03
9555	668699.0	4281365.0	Roadway/Open Space	-	-	0.03
9556	668709.0	4281365.0	Roadway/Open Space	-	-	0.04
9557	668719.0	4281365.0	Roadway/Open Space	-	-	0.04
9558	668729.0	4281365.0	Roadway/Open Space	-	-	0.04
9559	668739.0	4281365.0	Roadway/Open Space	-	-	0.04
9560	668749.0	4281365.0	Roadway/Open Space	-	-	0.04
9561	668759.0	4281365.0	Other Sensitive	0.68	0.003	0.04
9562	668769.0	4281365.0	Other Sensitive	0.71	0.003	0.04
9563	668779.0	4281365.0	Other Sensitive	0.73	0.003	0.04
9564	668789.0	4281365.0	Other Sensitive	0.76	0.003	0.04
9565	668799.0	4281365.0	Other Sensitive	0.81	0.003	0.04
9566	668809.0	4281365.0	Other Sensitive	0.85	0.003	0.04
9567	668819.0	4281365.0	Other Sensitive	0.90	0.003	0.05
9568	668829.0	4281365.0	Other Sensitive	0.95	0.004	0.05
9569	668839.0	4281365.0	Other Sensitive	1.00	0.004	0.05
9570	668849.0	4281365.0	Other Sensitive	1.06	0.004	0.05
9571	668859.0	4281365.0	Other Sensitive	1.13	0.004	0.05
9572	668869.0	4281365.0	Other Sensitive	1.18	0.005	0.06
9573	668879.0	4281365.0	Other Sensitive	1.23	0.005	0.07
9574	668889.0	4281365.0	Other Sensitive	1.29	0.005	0.07
9575	668899.0	4281365.0	Other Sensitive	1.35	0.005	0.07
9576	668909.0	4281365.0	Other Sensitive	1.41	0.006	0.07
9577	668919.0	4281365.0	Residential	1.46	0.006	0.08
9578	668929.0	4281365.0	Residential	1.50	0.006	0.08
9579	668939.0	4281365.0	Residential	1.54	0.006	0.08
9580	668949.0	4281365.0	Residential	1.55	0.006	0.08
9581	668959.0	4281365.0	Roadway/Open Space	-	-	0.08
9582	668969.0	4281365.0	Roadway/Open Space	-	-	0.07
9583	668979.0	4281365.0	Residential	1.51	0.006	0.07
9584	668989.0	4281365.0	Residential	1.48	0.006	0.07
9585	668999.0	4281365.0	Residential	1.45	0.006	0.07
9586	669009.0	4281365.0	Residential	1.43	0.006	0.07
9587	669019.0	4281365.0	Residential	1.41	0.006	0.06
9588	669029.0	4281365.0	Residential	1.41	0.006	0.06
9589	669039.0	4281365.0	Residential	1.41	0.006	0.06
9590	669049.0	4281365.0	Residential	1.41	0.006	0.05
9591	669059.0	4281365.0	Roadway/Open Space	-	-	0.05
9592	669069.0	4281365.0	Residential	1.49	0.006	0.05
9593	669079.0	4281365.0	Residential	1.54	0.006	0.05
9594	669089.0	4281365.0	Residential	1.59	0.006	0.06
9595	669099.0	4281365.0	Residential	1.62	0.006	0.06
9596	669109.0	4281365.0	Residential	1.63	0.006	0.05
9597	669119.0	4281365.0	Residential	1.63	0.006	0.05
9598	669129.0	4281365.0	Residential	1.61	0.006	0.05
9599	669139.0	4281365.0	Residential	1.58	0.006	0.05
9600	669149.0	4281365.0	Residential	1.54	0.006	0.05
9601	669159.0	4281365.0	Residential	1.50	0.006	0.04
9602	669169.0	4281365.0	Residential	1.47	0.006	0.04
9603	669179.0	4281365.0	Residential	1.43	0.006	0.04
9604	669189.0	4281365.0	Residential	1.39	0.005	0.04
9605	669199.0	4281365.0	Residential	1.35	0.005	0.04
9606	669209.0	4281365.0	Residential	1.30	0.005	0.04
9607	669219.0	4281365.0	Residential	1.25	0.005	0.03
9608	669229.0	4281365.0	Residential	1.19	0.005	0.03
9609	669239.0	4281365.0	Residential	1.14	0.004	0.03
9610	669249.0	4281365.0	Residential	1.08	0.004	0.03
9611	669259.0	4281365.0	Residential	1.03	0.004	0.03
9612	669269.0	4281365.0	Residential	0.98	0.004	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9613	669279.0	4281365.0	Roadway/Open Space	-	-	0.02
9614	669289.0	4281365.0	Roadway/Open Space	-	-	0.02
9615	669299.0	4281365.0	Roadway/Open Space	-	-	0.02
9616	669309.0	4281365.0	Residential	0.79	0.003	0.02
9617	669319.0	4281365.0	Residential	0.76	0.003	0.02
9618	669329.0	4281365.0	Residential	0.72	0.003	0.02
9619	669339.0	4281365.0	Residential	0.68	0.003	0.02
9620	669349.0	4281365.0	Residential	0.64	0.002	0.02
9621	669359.0	4281365.0	Residential	0.60	0.002	0.02
9622	669369.0	4281365.0	Residential	0.57	0.002	0.01
9623	669379.0	4281365.0	Residential	0.55	0.002	0.01
9624	669389.0	4281365.0	Residential	0.53	0.002	0.02
9625	668619.0	4281375.0	Roadway/Open Space	-	-	0.02
9626	668629.0	4281375.0	Roadway/Open Space	-	-	0.02
9627	668639.0	4281375.0	Roadway/Open Space	-	-	0.02
9628	668649.0	4281375.0	Roadway/Open Space	-	-	0.02
9629	668659.0	4281375.0	Roadway/Open Space	-	-	0.02
9630	668669.0	4281375.0	Roadway/Open Space	-	-	0.03
9631	668679.0	4281375.0	Roadway/Open Space	-	-	0.03
9632	668689.0	4281375.0	Roadway/Open Space	-	-	0.03
9633	668699.0	4281375.0	Roadway/Open Space	-	-	0.03
9634	668709.0	4281375.0	Roadway/Open Space	-	-	0.04
9635	668719.0	4281375.0	Other Sensitive	0.62	0.002	0.04
9636	668729.0	4281375.0	Other Sensitive	0.63	0.002	0.04
9637	668739.0	4281375.0	Other Sensitive	0.64	0.002	0.04
9638	668749.0	4281375.0	Other Sensitive	0.66	0.002	0.04
9639	668759.0	4281375.0	Roadway/Open Space	-	-	0.04
9640	668769.0	4281375.0	Roadway/Open Space	-	-	0.04
9641	668779.0	4281375.0	Roadway/Open Space	-	-	0.04
9642	668789.0	4281375.0	Other Sensitive	0.75	0.003	0.04
9643	668799.0	4281375.0	Other Sensitive	0.79	0.003	0.04
9644	668809.0	4281375.0	Other Sensitive	0.84	0.003	0.04
9645	668819.0	4281375.0	Other Sensitive	0.88	0.003	0.04
9646	668829.0	4281375.0	Other Sensitive	0.93	0.004	0.05
9647	668839.0	4281375.0	Other Sensitive	0.98	0.004	0.05
9648	668849.0	4281375.0	Other Sensitive	1.04	0.004	0.05
9649	668859.0	4281375.0	Other Sensitive	1.10	0.004	0.05
9650	668869.0	4281375.0	Other Sensitive	1.15	0.004	0.06
9651	668879.0	4281375.0	Other Sensitive	1.19	0.005	0.07
9652	668889.0	4281375.0	Other Sensitive	1.24	0.005	0.07
9653	668899.0	4281375.0	Other Sensitive	1.30	0.005	0.07
9654	668909.0	4281375.0	Residential	1.34	0.005	0.07
9655	668919.0	4281375.0	Residential	1.38	0.005	0.07
9656	668929.0	4281375.0	Residential	1.41	0.006	0.08
9657	668939.0	4281375.0	Residential	1.44	0.006	0.08
9658	668949.0	4281375.0	Residential	1.45	0.006	0.08
9659	668959.0	4281375.0	Roadway/Open Space	-	-	0.07
9660	668969.0	4281375.0	Residential	1.44	0.006	0.07
9661	668979.0	4281375.0	Residential	1.42	0.006	0.07
9662	668989.0	4281375.0	Residential	1.40	0.006	0.07
9663	668999.0	4281375.0	Residential	1.38	0.005	0.07
9664	669009.0	4281375.0	Residential	1.35	0.005	0.06
9665	669019.0	4281375.0	Residential	1.33	0.005	0.06
9666	669029.0	4281375.0	Residential	1.33	0.005	0.06
9667	669039.0	4281375.0	Residential	1.33	0.005	0.05
9668	669049.0	4281375.0	Residential	1.34	0.005	0.05
9669	669059.0	4281375.0	Roadway/Open Space	-	-	0.05
9670	669069.0	4281375.0	Roadway/Open Space	-	-	0.05
9671	669079.0	4281375.0	Residential	1.43	0.006	0.05
9672	669089.0	4281375.0	Residential	1.46	0.006	0.05
9673	669099.0	4281375.0	Residential	1.48	0.006	0.05
9674	669109.0	4281375.0	Residential	1.50	0.006	0.05
9675	669119.0	4281375.0	Roadway/Open Space	-	-	0.05
9676	669129.0	4281375.0	Roadway/Open Space	-	-	0.05
9677	669139.0	4281375.0	Roadway/Open Space	-	-	0.04
9678	669149.0	4281375.0	Roadway/Open Space	-	-	0.04
9679	669159.0	4281375.0	Residential	1.43	0.006	0.04
9680	669169.0	4281375.0	Residential	1.40	0.006	0.04
9681	669179.0	4281375.0	Residential	1.37	0.005	0.04
9682	669189.0	4281375.0	Residential	1.33	0.005	0.04
9683	669199.0	4281375.0	Residential	1.29	0.005	0.04
9684	669209.0	4281375.0	Residential	1.25	0.005	0.03
9685	669219.0	4281375.0	Residential	1.20	0.005	0.03
9686	669229.0	4281375.0	Roadway/Open Space	-	-	0.03
9687	669239.0	4281375.0	Roadway/Open Space	-	-	0.03
9688	669249.0	4281375.0	Roadway/Open Space	-	-	0.03
9689	669259.0	4281375.0	Roadway/Open Space	-	-	0.02
9690	669269.0	4281375.0	Roadway/Open Space	-	-	0.02
9691	669279.0	4281375.0	Residential	0.90	0.003	0.02
9692	669289.0	4281375.0	Residential	0.85	0.003	0.02
9693	669299.0	4281375.0	Residential	0.81	0.003	0.02
9694	669309.0	4281375.0	Residential	0.77	0.003	0.02
9695	669319.0	4281375.0	Residential	0.73	0.003	0.02
9696	669329.0	4281375.0	Residential	0.70	0.003	0.02

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9697	669339.0	4281375.0	Residential	0.66	0.002	0.02
9698	669349.0	4281375.0	Residential	0.62	0.002	0.02
9699	669359.0	4281375.0	Residential	0.59	0.002	0.01
9700	669369.0	4281375.0	Residential	0.56	0.002	0.01
9701	669379.0	4281375.0	Residential	0.53	0.002	0.01
9702	668629.0	4281385.0	Roadway/Open Space	-	-	0.02
9703	668639.0	4281385.0	Roadway/Open Space	-	-	0.02
9704	668649.0	4281385.0	Roadway/Open Space	-	-	0.02
9705	668659.0	4281385.0	Roadway/Open Space	-	-	0.03
9706	668669.0	4281385.0	Roadway/Open Space	-	-	0.03
9707	668679.0	4281385.0	Roadway/Open Space	-	-	0.03
9708	668689.0	4281385.0	Roadway/Open Space	-	-	0.03
9709	668699.0	4281385.0	Roadway/Open Space	-	-	0.03
9710	668709.0	4281385.0	Roadway/Open Space	-	-	0.04
9711	668719.0	4281385.0	Other Sensitive	0.61	0.002	0.04
9712	668729.0	4281385.0	Other Sensitive	0.62	0.002	0.04
9713	668739.0	4281385.0	Other Sensitive	0.63	0.002	0.04
9714	668749.0	4281385.0	Other Sensitive	0.64	0.002	0.04
9715	668759.0	4281385.0	Other Sensitive	0.66	0.003	0.04
9716	668769.0	4281385.0	Other Sensitive	0.69	0.003	0.04
9717	668779.0	4281385.0	Other Sensitive	0.71	0.003	0.04
9718	668789.0	4281385.0	Roadway/Open Space	-	-	0.04
9719	668799.0	4281385.0	Roadway/Open Space	-	-	0.04
9720	668809.0	4281385.0	Roadway/Open Space	-	-	0.04
9721	668819.0	4281385.0	Other Sensitive	0.86	0.003	0.04
9722	668829.0	4281385.0	Other Sensitive	0.91	0.004	0.05
9723	668839.0	4281385.0	Other Sensitive	0.96	0.004	0.05
9724	668849.0	4281385.0	Other Sensitive	1.01	0.004	0.05
9725	668859.0	4281385.0	Other Sensitive	1.06	0.004	0.06
9726	668869.0	4281385.0	Other Sensitive	1.11	0.004	0.06
9727	668879.0	4281385.0	Other Sensitive	1.15	0.004	0.06
9728	668889.0	4281385.0	Other Sensitive	1.20	0.005	0.07
9729	668899.0	4281385.0	Other Sensitive	1.24	0.005	0.07
9730	668909.0	4281385.0	Residential	1.27	0.005	0.07
9731	668919.0	4281385.0	Residential	1.30	0.005	0.07
9732	668929.0	4281385.0	Residential	1.33	0.005	0.07
9733	668939.0	4281385.0	Residential	1.34	0.005	0.07
9734	668949.0	4281385.0	Roadway/Open Space	-	-	0.07
9735	668959.0	4281385.0	Roadway/Open Space	-	-	0.07
9736	668969.0	4281385.0	Residential	1.34	0.005	0.07
9737	668979.0	4281385.0	Residential	1.33	0.005	0.07
9738	668989.0	4281385.0	Residential	1.32	0.005	0.07
9739	668999.0	4281385.0	Residential	1.31	0.005	0.06
9740	669009.0	4281385.0	Residential	1.29	0.005	0.06
9741	669019.0	4281385.0	Residential	1.27	0.005	0.06
9742	669029.0	4281385.0	Residential	1.26	0.005	0.06
9743	669039.0	4281385.0	Residential	1.26	0.005	0.05
9744	669049.0	4281385.0	Residential	1.27	0.005	0.05
9745	669059.0	4281385.0	Residential	1.29	0.005	0.05
9746	669069.0	4281385.0	Roadway/Open Space	-	-	0.05
9747	669079.0	4281385.0	Roadway/Open Space	-	-	0.05
9748	669089.0	4281385.0	Roadway/Open Space	-	-	0.05
9749	669099.0	4281385.0	Roadway/Open Space	-	-	0.05
9750	669109.0	4281385.0	Roadway/Open Space	-	-	0.04
9751	669119.0	4281385.0	Roadway/Open Space	-	-	0.04
9752	669129.0	4281385.0	Residential	1.38	0.005	0.04
9753	669139.0	4281385.0	Residential	1.38	0.005	0.04
9754	669149.0	4281385.0	Roadway/Open Space	-	-	0.04
9755	669159.0	4281385.0	Roadway/Open Space	-	-	0.04
9756	669169.0	4281385.0	Roadway/Open Space	-	-	0.04
9757	669179.0	4281385.0	Roadway/Open Space	-	-	0.04
9758	669189.0	4281385.0	Roadway/Open Space	-	-	0.04
9759	669199.0	4281385.0	Roadway/Open Space	-	-	0.03
9760	669209.0	4281385.0	Roadway/Open Space	-	-	0.03
9761	669219.0	4281385.0	Roadway/Open Space	-	-	0.03
9762	669229.0	4281385.0	Residential	1.10	0.004	0.03
9763	669239.0	4281385.0	Residential	1.05	0.004	0.03
9764	669249.0	4281385.0	Residential	1.00	0.004	0.03
9765	669259.0	4281385.0	Residential	0.96	0.004	0.02
9766	669269.0	4281385.0	Residential	0.92	0.004	0.02
9767	669279.0	4281385.0	Residential	0.87	0.003	0.02
9768	669289.0	4281385.0	Residential	0.83	0.003	0.02
9769	669299.0	4281385.0	Residential	0.78	0.003	0.02
9770	669309.0	4281385.0	Residential	0.74	0.003	0.02
9771	669319.0	4281385.0	Residential	0.70	0.003	0.02
9772	669329.0	4281385.0	Residential	0.67	0.003	0.02
9773	669339.0	4281385.0	Residential	0.64	0.002	0.02
9774	669349.0	4281385.0	Residential	0.61	0.002	0.01
9775	669359.0	4281385.0	Residential	0.57	0.002	0.01
9776	669369.0	4281385.0	Residential	0.55	0.002	0.01
9777	668639.0	4281395.0	Roadway/Open Space	-	-	0.02
9778	668649.0	4281395.0	Roadway/Open Space	-	-	0.02
9779	668659.0	4281395.0	Roadway/Open Space	-	-	0.03
9780	668669.0	4281395.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9781	668679.0	4281395.0	Roadway/Open Space	-	-	0.03
9782	668689.0	4281395.0	Roadway/Open Space	-	-	0.03
9783	668699.0	4281395.0	Roadway/Open Space	-	-	0.03
9784	668709.0	4281395.0	Roadway/Open Space	-	-	0.03
9785	668719.0	4281395.0	Other Sensitive	0.59	0.002	0.04
9786	668729.0	4281395.0	Other Sensitive	0.60	0.002	0.04
9787	668739.0	4281395.0	Other Sensitive	0.62	0.002	0.04
9788	668749.0	4281395.0	Other Sensitive	0.63	0.002	0.04
9789	668759.0	4281395.0	Other Sensitive	0.65	0.002	0.04
9790	668769.0	4281395.0	Other Sensitive	0.68	0.003	0.04
9791	668779.0	4281395.0	Other Sensitive	0.70	0.003	0.04
9792	668789.0	4281395.0	Other Sensitive	0.73	0.003	0.04
9793	668799.0	4281395.0	Other Sensitive	0.77	0.003	0.04
9794	668809.0	4281395.0	Other Sensitive	0.81	0.003	0.04
9795	668819.0	4281395.0	Roadway/Open Space	-	-	0.04
9796	668829.0	4281395.0	Roadway/Open Space	-	-	0.04
9797	668839.0	4281395.0	Roadway/Open Space	-	-	0.05
9798	668849.0	4281395.0	Other Sensitive	0.98	0.004	0.05
9799	668859.0	4281395.0	Other Sensitive	1.03	0.004	0.06
9800	668869.0	4281395.0	Other Sensitive	1.07	0.004	0.06
9801	668879.0	4281395.0	Other Sensitive	1.11	0.004	0.06
9802	668889.0	4281395.0	Other Sensitive	1.15	0.005	0.06
9803	668899.0	4281395.0	Other Sensitive	1.18	0.005	0.07
9804	668909.0	4281395.0	Residential	1.21	0.005	0.07
9805	668919.0	4281395.0	Residential	1.22	0.005	0.07
9806	668929.0	4281395.0	Residential	1.24	0.005	0.07
9807	668939.0	4281395.0	Residential	1.26	0.005	0.07
9808	668949.0	4281395.0	Roadway/Open Space	-	-	0.07
9809	668959.0	4281395.0	Residential	1.26	0.005	0.06
9810	668969.0	4281395.0	Residential	1.26	0.005	0.06
9811	668979.0	4281395.0	Residential	1.27	0.005	0.06
9812	668989.0	4281395.0	Residential	1.26	0.005	0.06
9813	668999.0	4281395.0	Residential	1.24	0.005	0.06
9814	669009.0	4281395.0	Residential	1.23	0.005	0.06
9815	669019.0	4281395.0	Residential	1.21	0.005	0.06
9816	669029.0	4281395.0	Residential	1.20	0.005	0.05
9817	669039.0	4281395.0	Residential	1.20	0.005	0.05
9818	669049.0	4281395.0	Residential	1.20	0.005	0.05
9819	669059.0	4281395.0	Residential	1.21	0.005	0.05
9820	669069.0	4281395.0	Roadway/Open Space	-	-	0.04
9821	669079.0	4281395.0	Roadway/Open Space	-	-	0.04
9822	669089.0	4281395.0	Residential	1.22	0.005	0.04
9823	669099.0	4281395.0	Residential	1.24	0.005	0.04
9824	669109.0	4281395.0	Residential	1.26	0.005	0.04
9825	669119.0	4281395.0	Residential	1.27	0.005	0.04
9826	669129.0	4281395.0	Residential	1.28	0.005	0.04
9827	669139.0	4281395.0	Residential	1.29	0.005	0.04
9828	669149.0	4281395.0	Residential	1.30	0.005	0.04
9829	669159.0	4281395.0	Residential	1.29	0.005	0.04
9830	669169.0	4281395.0	Residential	1.27	0.005	0.04
9831	669179.0	4281395.0	Residential	1.25	0.005	0.04
9832	669189.0	4281395.0	Residential	1.22	0.005	0.04
9833	669199.0	4281395.0	Residential	1.18	0.005	0.03
9834	669209.0	4281395.0	Residential	1.14	0.004	0.03
9835	669219.0	4281395.0	Residential	1.09	0.004	0.03
9836	669229.0	4281395.0	Residential	1.05	0.004	0.03
9837	669239.0	4281395.0	Residential	1.00	0.004	0.03
9838	669249.0	4281395.0	Residential	0.96	0.004	0.03
9839	669259.0	4281395.0	Residential	0.92	0.004	0.02
9840	669269.0	4281395.0	Residential	0.89	0.003	0.02
9841	669279.0	4281395.0	Residential	0.84	0.003	0.02
9842	669289.0	4281395.0	Residential	0.80	0.003	0.02
9843	669299.0	4281395.0	Residential	0.75	0.003	0.02
9844	669309.0	4281395.0	Residential	0.71	0.003	0.02
9845	669319.0	4281395.0	Residential	0.68	0.003	0.02
9846	669329.0	4281395.0	Residential	0.65	0.002	0.02
9847	669339.0	4281395.0	Residential	0.62	0.002	0.01
9848	669349.0	4281395.0	Residential	0.59	0.002	0.01
9849	669359.0	4281395.0	Residential	0.56	0.002	0.01
9850	668649.0	4281405.0	Roadway/Open Space	-	-	0.03
9851	668659.0	4281405.0	Roadway/Open Space	-	-	0.03
9852	668669.0	4281405.0	Roadway/Open Space	-	-	0.03
9853	668679.0	4281405.0	Roadway/Open Space	-	-	0.03
9854	668689.0	4281405.0	Roadway/Open Space	-	-	0.03
9855	668699.0	4281405.0	Roadway/Open Space	-	-	0.03
9856	668709.0	4281405.0	Other Sensitive	0.57	0.002	0.03
9857	668719.0	4281405.0	Other Sensitive	0.58	0.002	0.03
9858	668729.0	4281405.0	Other Sensitive	0.59	0.002	0.04
9859	668739.0	4281405.0	Other Sensitive	0.60	0.002	0.04
9860	668749.0	4281405.0	Other Sensitive	0.62	0.002	0.04
9861	668759.0	4281405.0	Other Sensitive	0.64	0.002	0.04
9862	668769.0	4281405.0	Other Sensitive	0.67	0.003	0.04
9863	668779.0	4281405.0	Other Sensitive	0.69	0.003	0.04
9864	668789.0	4281405.0	Other Sensitive	0.72	0.003	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9865	668799.0	4281405.0	Other Sensitive	0.76	0.003	0.04
9866	668809.0	4281405.0	Other Sensitive	0.80	0.003	0.04
9867	668819.0	4281405.0	Other Sensitive	0.84	0.003	0.04
9868	668829.0	4281405.0	Other Sensitive	0.87	0.003	0.04
9869	668839.0	4281405.0	Other Sensitive	0.91	0.004	0.05
9870	668849.0	4281405.0	Roadway/Open Space	-	-	0.05
9871	668859.0	4281405.0	Roadway/Open Space	-	-	0.06
9872	668869.0	4281405.0	Roadway/Open Space	-	-	0.06
9873	668879.0	4281405.0	Other Sensitive	1.07	0.004	0.06
9874	668889.0	4281405.0	Other Sensitive	1.09	0.004	0.06
9875	668899.0	4281405.0	Residential	1.13	0.004	0.06
9876	668909.0	4281405.0	Residential	1.15	0.005	0.07
9877	668919.0	4281405.0	Residential	1.15	0.005	0.07
9878	668929.0	4281405.0	Residential	1.16	0.005	0.07
9879	668939.0	4281405.0	Roadway/Open Space	-	-	0.07
9880	668949.0	4281405.0	Roadway/Open Space	-	-	0.06
9881	668959.0	4281405.0	Residential	1.18	0.005	0.06
9882	668969.0	4281405.0	Residential	1.19	0.005	0.06
9883	668979.0	4281405.0	Residential	1.20	0.005	0.06
9884	668989.0	4281405.0	Residential	1.20	0.005	0.06
9885	668999.0	4281405.0	Residential	1.19	0.005	0.06
9886	669009.0	4281405.0	Residential	1.18	0.005	0.06
9887	669019.0	4281405.0	Residential	1.17	0.005	0.06
9888	669029.0	4281405.0	Residential	1.15	0.005	0.05
9889	669039.0	4281405.0	Residential	1.15	0.004	0.05
9890	669049.0	4281405.0	Residential	1.15	0.004	0.05
9891	669059.0	4281405.0	Roadway/Open Space	-	-	0.05
9892	669069.0	4281405.0	Roadway/Open Space	-	-	0.04
9893	669079.0	4281405.0	Residential	1.13	0.004	0.04
9894	669089.0	4281405.0	Residential	1.13	0.004	0.04
9895	669099.0	4281405.0	Residential	1.15	0.005	0.04
9896	669109.0	4281405.0	Residential	1.16	0.005	0.04
9897	669119.0	4281405.0	Residential	1.18	0.005	0.04
9898	669129.0	4281405.0	Residential	1.20	0.005	0.04
9899	669139.0	4281405.0	Residential	1.22	0.005	0.04
9900	669149.0	4281405.0	Residential	1.23	0.005	0.04
9901	669159.0	4281405.0	Residential	1.23	0.005	0.04
9902	669169.0	4281405.0	Residential	1.22	0.005	0.04
9903	669179.0	4281405.0	Residential	1.20	0.005	0.04
9904	669189.0	4281405.0	Residential	1.17	0.005	0.03
9905	669199.0	4281405.0	Residential	1.13	0.004	0.03
9906	669209.0	4281405.0	Residential	1.08	0.004	0.03
9907	669219.0	4281405.0	Residential	1.04	0.004	0.03
9908	669229.0	4281405.0	Residential	1.00	0.004	0.03
9909	669239.0	4281405.0	Residential	0.96	0.004	0.03
9910	669249.0	4281405.0	Residential	0.92	0.004	0.03
9911	669259.0	4281405.0	Residential	0.89	0.003	0.02
9912	669269.0	4281405.0	Residential	0.85	0.003	0.02
9913	669279.0	4281405.0	Residential	0.81	0.003	0.02
9914	669289.0	4281405.0	Residential	0.76	0.003	0.02
9915	669299.0	4281405.0	Residential	0.72	0.003	0.02
9916	669309.0	4281405.0	Residential	0.69	0.003	0.02
9917	669319.0	4281405.0	Residential	0.65	0.002	0.01
9918	669329.0	4281405.0	Residential	0.62	0.002	0.01
9919	669339.0	4281405.0	Residential	0.60	0.002	0.01
9920	668659.0	4281415.0	Roadway/Open Space	-	-	0.03
9921	668669.0	4281415.0	Roadway/Open Space	-	-	0.03
9922	668679.0	4281415.0	Roadway/Open Space	-	-	0.03
9923	668689.0	4281415.0	Roadway/Open Space	-	-	0.03
9924	668699.0	4281415.0	Roadway/Open Space	-	-	0.03
9925	668709.0	4281415.0	Other Sensitive	0.57	0.002	0.03
9926	668719.0	4281415.0	Other Sensitive	0.57	0.002	0.03
9927	668729.0	4281415.0	Other Sensitive	0.58	0.002	0.04
9928	668739.0	4281415.0	Other Sensitive	0.60	0.002	0.03
9929	668749.0	4281415.0	Other Sensitive	0.62	0.002	0.04
9930	668759.0	4281415.0	Other Sensitive	0.64	0.002	0.04
9931	668769.0	4281415.0	Other Sensitive	0.66	0.003	0.04
9932	668779.0	4281415.0	Other Sensitive	0.68	0.003	0.04
9933	668789.0	4281415.0	Other Sensitive	0.71	0.003	0.04
9934	668799.0	4281415.0	Other Sensitive	0.75	0.003	0.04
9935	668809.0	4281415.0	Other Sensitive	0.78	0.003	0.04
9936	668819.0	4281415.0	Other Sensitive	0.82	0.003	0.04
9937	668829.0	4281415.0	Other Sensitive	0.85	0.003	0.04
9938	668839.0	4281415.0	Other Sensitive	0.88	0.003	0.05
9939	668849.0	4281415.0	Other Sensitive	0.92	0.004	0.05
9940	668859.0	4281415.0	Other Sensitive	0.96	0.004	0.06
9941	668869.0	4281415.0	Other Sensitive	0.99	0.004	0.06
9942	668879.0	4281415.0	Roadway/Open Space	-	-	0.06
9943	668889.0	4281415.0	Roadway/Open Space	-	-	0.06
9944	668899.0	4281415.0	Residential	1.08	0.004	0.06
9945	668909.0	4281415.0	Residential	1.09	0.004	0.06
9946	668919.0	4281415.0	Residential	1.09	0.004	0.06
9947	668929.0	4281415.0	Residential	1.11	0.004	0.06
9948	668939.0	4281415.0	Roadway/Open Space	-	-	0.06

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
9949	668949.0	4281415.0	Residential	1.13	0.004	0.06
9950	668959.0	4281415.0	Residential	1.13	0.004	0.06
9951	668969.0	4281415.0	Residential	1.13	0.004	0.06
9952	668979.0	4281415.0	Residential	1.13	0.004	0.06
9953	668989.0	4281415.0	Residential	1.14	0.005	0.06
9954	668999.0	4281415.0	Residential	1.14	0.004	0.06
9955	669009.0	4281415.0	Residential	1.13	0.004	0.06
9956	669019.0	4281415.0	Residential	1.12	0.004	0.05
9957	669029.0	4281415.0	Residential	1.10	0.004	0.05
9958	669039.0	4281415.0	Residential	1.09	0.004	0.05
9959	669049.0	4281415.0	Roadway/Open Space	-	-	0.04
9960	669059.0	4281415.0	Residential	1.07	0.004	0.04
9961	669069.0	4281415.0	Residential	1.06	0.004	0.04
9962	669079.0	4281415.0	Residential	1.06	0.004	0.04
9963	669089.0	4281415.0	Residential	1.06	0.004	0.04
9964	669099.0	4281415.0	Residential	1.07	0.004	0.04
9965	669109.0	4281415.0	Residential	1.08	0.004	0.03
9966	669119.0	4281415.0	Residential	1.10	0.004	0.03
9967	669129.0	4281415.0	Residential	1.13	0.004	0.04
9968	669139.0	4281415.0	Residential	1.15	0.005	0.04
9969	669149.0	4281415.0	Residential	1.16	0.005	0.04
9970	669159.0	4281415.0	Residential	1.17	0.005	0.04
9971	669169.0	4281415.0	Residential	1.16	0.005	0.03
9972	669179.0	4281415.0	Residential	1.15	0.004	0.03
9973	669189.0	4281415.0	Residential	1.12	0.004	0.03
9974	669199.0	4281415.0	Residential	1.07	0.004	0.03
9975	669209.0	4281415.0	Residential	1.03	0.004	0.03
9976	669219.0	4281415.0	Residential	0.99	0.004	0.03
9977	669229.0	4281415.0	Residential	0.95	0.004	0.03
9978	669239.0	4281415.0	Residential	0.92	0.004	0.02
9979	669249.0	4281415.0	Residential	0.89	0.003	0.02
9980	669259.0	4281415.0	Residential	0.85	0.003	0.02
9981	669269.0	4281415.0	Residential	0.81	0.003	0.02
9982	669279.0	4281415.0	Residential	0.77	0.003	0.02
9983	669289.0	4281415.0	Residential	0.73	0.003	0.02
9984	669299.0	4281415.0	Residential	0.69	0.003	0.02
9985	669309.0	4281415.0	Residential	0.66	0.003	0.02
9986	669319.0	4281415.0	Residential	0.63	0.002	0.01
9987	668669.0	4281425.0	Roadway/Open Space	-	-	0.03
9988	668679.0	4281425.0	Roadway/Open Space	-	-	0.03
9989	668689.0	4281425.0	Roadway/Open Space	-	-	0.03
9990	668699.0	4281425.0	Roadway/Open Space	-	-	0.03
9991	668709.0	4281425.0	Other Sensitive	0.56	0.002	0.03
9992	668719.0	4281425.0	Other Sensitive	0.57	0.002	0.03
9993	668729.0	4281425.0	Other Sensitive	0.58	0.002	0.03
9994	668739.0	4281425.0	Other Sensitive	0.59	0.002	0.03
9995	668749.0	4281425.0	Other Sensitive	0.61	0.002	0.03
9996	668759.0	4281425.0	Other Sensitive	0.63	0.002	0.04
9997	668769.0	4281425.0	Other Sensitive	0.65	0.002	0.04
9998	668779.0	4281425.0	Other Sensitive	0.67	0.003	0.04
9999	668789.0	4281425.0	Other Sensitive	0.70	0.003	0.04
10000	668799.0	4281425.0	Other Sensitive	0.74	0.003	0.04
10001	668809.0	4281425.0	Other Sensitive	0.77	0.003	0.04
10002	668819.0	4281425.0	Other Sensitive	0.80	0.003	0.04
10003	668829.0	4281425.0	Other Sensitive	0.83	0.003	0.04
10004	668839.0	4281425.0	Other Sensitive	0.86	0.003	0.05
10005	668849.0	4281425.0	Other Sensitive	0.89	0.003	0.05
10006	668859.0	4281425.0	Other Sensitive	0.92	0.004	0.05
10007	668869.0	4281425.0	Other Sensitive	0.95	0.004	0.05
10008	668879.0	4281425.0	Other Sensitive	0.98	0.004	0.06
10009	668889.0	4281425.0	Roadway/Open Space	-	-	0.06
10010	668899.0	4281425.0	Residential	1.03	0.004	0.06
10011	668909.0	4281425.0	Residential	1.03	0.004	0.06
10012	668919.0	4281425.0	Residential	1.04	0.004	0.06
10013	668929.0	4281425.0	Residential	1.06	0.004	0.06
10014	668939.0	4281425.0	Roadway/Open Space	-	-	0.06
10015	668949.0	4281425.0	Residential	1.08	0.004	0.06
10016	668959.0	4281425.0	Residential	1.08	0.004	0.06
10017	668969.0	4281425.0	Residential	1.08	0.004	0.06
10018	668979.0	4281425.0	Residential	1.08	0.004	0.06
10019	668989.0	4281425.0	Residential	1.08	0.004	0.06
10020	668999.0	4281425.0	Residential	1.08	0.004	0.06
10021	669009.0	4281425.0	Residential	1.08	0.004	0.05
10022	669019.0	4281425.0	Residential	1.06	0.004	0.05
10023	669029.0	4281425.0	Residential	1.05	0.004	0.05
10024	669039.0	4281425.0	Roadway/Open Space	-	-	0.04
10025	669049.0	4281425.0	Residential	1.02	0.004	0.04
10026	669059.0	4281425.0	Residential	1.01	0.004	0.04
10027	669069.0	4281425.0	Residential	1.01	0.004	0.04
10028	669079.0	4281425.0	Residential	1.00	0.004	0.04
10029	669089.0	4281425.0	Residential	1.00	0.004	0.03
10030	669099.0	4281425.0	Residential	1.00	0.004	0.03
10031	669109.0	4281425.0	Residential	1.01	0.004	0.03
10032	669119.0	4281425.0	Residential	1.03	0.004	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10033	669129.0	4281425.0	Residential	1.06	0.004	0.03
10034	669139.0	4281425.0	Residential	1.09	0.004	0.03
10035	669149.0	4281425.0	Residential	1.11	0.004	0.03
10036	669159.0	4281425.0	Residential	1.11	0.004	0.03
10037	669169.0	4281425.0	Residential	1.11	0.004	0.03
10038	669179.0	4281425.0	Residential	1.09	0.004	0.03
10039	669189.0	4281425.0	Residential	1.06	0.004	0.03
10040	669199.0	4281425.0	Residential	1.02	0.004	0.03
10041	669209.0	4281425.0	Residential	0.98	0.004	0.03
10042	669219.0	4281425.0	Residential	0.94	0.004	0.03
10043	669229.0	4281425.0	Residential	0.91	0.004	0.02
10044	669239.0	4281425.0	Residential	0.88	0.003	0.02
10045	669249.0	4281425.0	Roadway/Open Space	-	-	0.02
10046	669259.0	4281425.0	Roadway/Open Space	-	-	0.02
10047	669269.0	4281425.0	Roadway/Open Space	-	-	0.02
10048	669279.0	4281425.0	Roadway/Open Space	-	-	0.02
10049	669289.0	4281425.0	Roadway/Open Space	-	-	0.02
10050	669299.0	4281425.0	Roadway/Open Space	-	-	0.02
10051	669309.0	4281425.0	Roadway/Open Space	-	-	0.02
10052	668679.0	4281435.0	Roadway/Open Space	-	-	0.03
10053	668689.0	4281435.0	Roadway/Open Space	-	-	0.03
10054	668699.0	4281435.0	Other Sensitive	0.55	0.002	0.03
10055	668709.0	4281435.0	Other Sensitive	0.55	0.002	0.03
10056	668719.0	4281435.0	Other Sensitive	0.56	0.002	0.03
10057	668729.0	4281435.0	Other Sensitive	0.57	0.002	0.03
10058	668739.0	4281435.0	Other Sensitive	0.59	0.002	0.03
10059	668749.0	4281435.0	Other Sensitive	0.60	0.002	0.03
10060	668759.0	4281435.0	Other Sensitive	0.62	0.002	0.04
10061	668769.0	4281435.0	Other Sensitive	0.64	0.002	0.04
10062	668779.0	4281435.0	Other Sensitive	0.67	0.003	0.04
10063	668789.0	4281435.0	Other Sensitive	0.70	0.003	0.04
10064	668799.0	4281435.0	Other Sensitive	0.73	0.003	0.04
10065	668809.0	4281435.0	Other Sensitive	0.76	0.003	0.04
10066	668819.0	4281435.0	Other Sensitive	0.78	0.003	0.04
10067	668829.0	4281435.0	Other Sensitive	0.81	0.003	0.05
10068	668839.0	4281435.0	Other Sensitive	0.83	0.003	0.05
10069	668849.0	4281435.0	Other Sensitive	0.86	0.003	0.05
10070	668859.0	4281435.0	Other Sensitive	0.89	0.003	0.05
10071	668869.0	4281435.0	Other Sensitive	0.92	0.004	0.05
10072	668879.0	4281435.0	Other Sensitive	0.95	0.004	0.05
10073	668889.0	4281435.0	Residential	0.97	0.004	0.06
10074	668899.0	4281435.0	Residential	0.99	0.004	0.06
10075	668909.0	4281435.0	Residential	0.99	0.004	0.06
10076	668919.0	4281435.0	Residential	0.99	0.004	0.06
10077	668929.0	4281435.0	Roadway/Open Space	-	-	0.06
10078	668939.0	4281435.0	Roadway/Open Space	-	-	0.06
10079	668949.0	4281435.0	Residential	1.04	0.004	0.06
10080	668959.0	4281435.0	Residential	1.04	0.004	0.06
10081	668969.0	4281435.0	Residential	1.04	0.004	0.06
10082	668979.0	4281435.0	Residential	1.04	0.004	0.06
10083	668989.0	4281435.0	Residential	1.03	0.004	0.06
10084	668999.0	4281435.0	Residential	1.03	0.004	0.05
10085	669009.0	4281435.0	Residential	1.02	0.004	0.05
10086	669019.0	4281435.0	Residential	1.01	0.004	0.05
10087	669029.0	4281435.0	Residential	0.99	0.004	0.05
10088	669039.0	4281435.0	Roadway/Open Space	-	-	0.04
10089	669049.0	4281435.0	Residential	0.97	0.004	0.04
10090	669059.0	4281435.0	Residential	0.96	0.004	0.04
10091	669069.0	4281435.0	Residential	0.96	0.004	0.04
10092	669079.0	4281435.0	Residential	0.95	0.004	0.03
10093	669089.0	4281435.0	Residential	0.95	0.004	0.03
10094	669099.0	4281435.0	Residential	0.95	0.004	0.03
10095	669109.0	4281435.0	Residential	0.95	0.004	0.03
10096	669119.0	4281435.0	Residential	0.97	0.004	0.03
10097	669129.0	4281435.0	Residential	0.99	0.004	0.03
10098	669139.0	4281435.0	Residential	1.02	0.004	0.03
10099	669149.0	4281435.0	Residential	1.04	0.004	0.03
10100	669159.0	4281435.0	Residential	1.04	0.004	0.03
10101	669169.0	4281435.0	Residential	1.04	0.004	0.03
10102	669179.0	4281435.0	Residential	1.02	0.004	0.03
10103	669189.0	4281435.0	Residential	0.99	0.004	0.03
10104	669199.0	4281435.0	Residential	0.96	0.004	0.03
10105	669209.0	4281435.0	Residential	0.93	0.004	0.03
10106	669219.0	4281435.0	Residential	0.90	0.003	0.02
10107	669229.0	4281435.0	Residential	0.87	0.003	0.02
10108	669239.0	4281435.0	Residential	0.84	0.003	0.02
10109	669249.0	4281435.0	Roadway/Open Space	-	-	0.02
10110	669259.0	4281435.0	Roadway/Open Space	-	-	0.02
10111	669269.0	4281435.0	Roadway/Open Space	-	-	0.02
10112	669279.0	4281435.0	Roadway/Open Space	-	-	0.02
10113	668689.0	4281445.0	Roadway/Open Space	-	-	0.03
10114	668699.0	4281445.0	Other Sensitive	0.54	0.002	0.03
10115	668709.0	4281445.0	Other Sensitive	0.55	0.002	0.03
10116	668719.0	4281445.0	Other Sensitive	0.56	0.002	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10117	668729.0	4281445.0	Other Sensitive	0.57	0.002	0.03
10118	668739.0	4281445.0	Other Sensitive	0.58	0.002	0.03
10119	668749.0	4281445.0	Other Sensitive	0.60	0.002	0.03
10120	668759.0	4281445.0	Other Sensitive	0.62	0.002	0.03
10121	668769.0	4281445.0	Other Sensitive	0.64	0.002	0.03
10122	668779.0	4281445.0	Other Sensitive	0.67	0.003	0.04
10123	668789.0	4281445.0	Other Sensitive	0.69	0.003	0.04
10124	668799.0	4281445.0	Other Sensitive	0.72	0.003	0.04
10125	668809.0	4281445.0	Other Sensitive	0.74	0.003	0.04
10126	668819.0	4281445.0	Other Sensitive	0.76	0.003	0.04
10127	668829.0	4281445.0	Other Sensitive	0.78	0.003	0.05
10128	668839.0	4281445.0	Other Sensitive	0.80	0.003	0.05
10129	668849.0	4281445.0	Other Sensitive	0.83	0.003	0.05
10130	668859.0	4281445.0	Other Sensitive	0.86	0.003	0.05
10131	668869.0	4281445.0	Other Sensitive	0.89	0.003	0.05
10132	668879.0	4281445.0	Other Sensitive	0.92	0.004	0.05
10133	668889.0	4281445.0	Residential	0.94	0.004	0.06
10134	668899.0	4281445.0	Residential	0.94	0.004	0.06
10135	668909.0	4281445.0	Residential	0.94	0.004	0.06
10136	668919.0	4281445.0	Residential	0.96	0.004	0.06
10137	668929.0	4281445.0	Roadway/Open Space	-	-	0.05
10138	668939.0	4281445.0	Residential	0.98	0.004	0.05
10139	668949.0	4281445.0	Residential	0.98	0.004	0.05
10140	668959.0	4281445.0	Residential	0.99	0.004	0.05
10141	668969.0	4281445.0	Residential	0.99	0.004	0.05
10142	668979.0	4281445.0	Residential	0.99	0.004	0.05
10143	668989.0	4281445.0	Residential	0.99	0.004	0.05
10144	668999.0	4281445.0	Residential	0.98	0.004	0.05
10145	669009.0	4281445.0	Residential	0.97	0.004	0.05
10146	669019.0	4281445.0	Residential	0.96	0.004	0.05
10147	669029.0	4281445.0	Roadway/Open Space	-	-	0.04
10148	669039.0	4281445.0	Residential	0.94	0.004	0.04
10149	669049.0	4281445.0	Residential	0.92	0.004	0.04
10150	669059.0	4281445.0	Residential	0.91	0.004	0.04
10151	669069.0	4281445.0	Residential	0.91	0.004	0.03
10152	669079.0	4281445.0	Residential	0.91	0.004	0.03
10153	669089.0	4281445.0	Residential	0.90	0.004	0.03
10154	669099.0	4281445.0	Residential	0.90	0.004	0.03
10155	669109.0	4281445.0	Residential	0.90	0.004	0.03
10156	669119.0	4281445.0	Residential	0.91	0.004	0.03
10157	669129.0	4281445.0	Residential	0.93	0.004	0.03
10158	669139.0	4281445.0	Residential	0.94	0.004	0.03
10159	669149.0	4281445.0	Residential	0.96	0.004	0.03
10160	669159.0	4281445.0	Residential	0.96	0.004	0.03
10161	669169.0	4281445.0	Residential	0.96	0.004	0.03
10162	669179.0	4281445.0	Residential	0.94	0.004	0.03
10163	669189.0	4281445.0	Residential	0.93	0.004	0.03
10164	669199.0	4281445.0	Residential	0.90	0.004	0.03
10165	669209.0	4281445.0	Residential	0.88	0.003	0.03
10166	669219.0	4281445.0	Residential	0.86	0.003	0.02
10167	669229.0	4281445.0	Residential	0.83	0.003	0.02
10168	669239.0	4281445.0	Roadway/Open Space	-	-	0.02
10169	669249.0	4281445.0	Roadway/Open Space	-	-	0.02
10170	669259.0	4281445.0	Roadway/Open Space	-	-	0.02
10171	668699.0	4281455.0	Other Sensitive	0.54	0.002	0.03
10172	668709.0	4281455.0	Other Sensitive	0.54	0.002	0.03
10173	668719.0	4281455.0	Other Sensitive	0.55	0.002	0.03
10174	668729.0	4281455.0	Other Sensitive	0.57	0.002	0.03
10175	668739.0	4281455.0	Other Sensitive	0.58	0.002	0.03
10176	668749.0	4281455.0	Other Sensitive	0.61	0.002	0.03
10177	668759.0	4281455.0	Other Sensitive	0.63	0.002	0.03
10178	668769.0	4281455.0	Other Sensitive	0.65	0.002	0.03
10179	668779.0	4281455.0	Other Sensitive	0.67	0.003	0.04
10180	668789.0	4281455.0	Other Sensitive	0.69	0.003	0.04
10181	668799.0	4281455.0	Other Sensitive	0.70	0.003	0.04
10182	668809.0	4281455.0	Other Sensitive	0.72	0.003	0.04
10183	668819.0	4281455.0	Other Sensitive	0.74	0.003	0.04
10184	668829.0	4281455.0	Other Sensitive	0.76	0.003	0.05
10185	668839.0	4281455.0	Other Sensitive	0.78	0.003	0.05
10186	668849.0	4281455.0	Other Sensitive	0.80	0.003	0.05
10187	668859.0	4281455.0	Other Sensitive	0.83	0.003	0.05
10188	668869.0	4281455.0	Other Sensitive	0.86	0.003	0.05
10189	668879.0	4281455.0	Roadway/Open Space	-	-	0.05
10190	668889.0	4281455.0	Residential	0.90	0.004	0.05
10191	668899.0	4281455.0	Residential	0.91	0.004	0.05
10192	668909.0	4281455.0	Residential	0.91	0.004	0.06
10193	668919.0	4281455.0	Residential	0.92	0.004	0.05
10194	668929.0	4281455.0	Roadway/Open Space	-	-	0.05
10195	668939.0	4281455.0	Residential	0.94	0.004	0.05
10196	668949.0	4281455.0	Residential	0.94	0.004	0.05
10197	668959.0	4281455.0	Residential	0.95	0.004	0.05
10198	668969.0	4281455.0	Residential	0.95	0.004	0.05
10199	668979.0	4281455.0	Residential	0.96	0.004	0.05
10200	668989.0	4281455.0	Residential	0.96	0.004	0.05

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation

El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10201	668999.0	4281455.0	Residential	0.95	0.004	0.05
10202	669009.0	4281455.0	Residential	0.93	0.004	0.05
10203	669019.0	4281455.0	Residential	0.92	0.004	0.05
10204	669029.0	4281455.0	Roadway/Open Space	-	-	0.04
10205	669039.0	4281455.0	Residential	0.89	0.003	0.04
10206	669049.0	4281455.0	Residential	0.88	0.003	0.04
10207	669059.0	4281455.0	Residential	0.87	0.003	0.04
10208	669069.0	4281455.0	Residential	0.86	0.003	0.03
10209	669079.0	4281455.0	Residential	0.86	0.003	0.03
10210	669089.0	4281455.0	Residential	0.86	0.003	0.03
10211	669099.0	4281455.0	Residential	0.86	0.003	0.03
10212	669109.0	4281455.0	Residential	0.85	0.003	0.03
10213	669119.0	4281455.0	Residential	0.86	0.003	0.03
10214	669129.0	4281455.0	Residential	0.86	0.003	0.03
10215	669139.0	4281455.0	Residential	0.87	0.003	0.03
10216	669149.0	4281455.0	Residential	0.88	0.003	0.03
10217	669159.0	4281455.0	Residential	0.88	0.003	0.03
10218	669169.0	4281455.0	Residential	0.88	0.003	0.03
10219	669179.0	4281455.0	Residential	0.87	0.003	0.03
10220	669189.0	4281455.0	Residential	0.86	0.003	0.03
10221	669199.0	4281455.0	Residential	0.85	0.003	0.03
10222	669209.0	4281455.0	Residential	0.84	0.003	0.02
10223	669219.0	4281455.0	Residential	0.82	0.003	0.02
10224	669229.0	4281455.0	Roadway/Open Space	-	-	0.02
10225	669239.0	4281455.0	Roadway/Open Space	-	-	0.02
10226	668709.0	4281465.0	Other Sensitive	0.54	0.002	0.03
10227	668719.0	4281465.0	Other Sensitive	0.55	0.002	0.03
10228	668729.0	4281465.0	Other Sensitive	0.57	0.002	0.03
10229	668739.0	4281465.0	Other Sensitive	0.59	0.002	0.03
10230	668749.0	4281465.0	Other Sensitive	0.61	0.002	0.03
10231	668759.0	4281465.0	Other Sensitive	0.63	0.002	0.03
10232	668769.0	4281465.0	Other Sensitive	0.64	0.002	0.03
10233	668779.0	4281465.0	Other Sensitive	0.66	0.003	0.03
10234	668789.0	4281465.0	Other Sensitive	0.67	0.003	0.04
10235	668799.0	4281465.0	Other Sensitive	0.69	0.003	0.04
10236	668809.0	4281465.0	Other Sensitive	0.71	0.003	0.04
10237	668819.0	4281465.0	Other Sensitive	0.72	0.003	0.04
10238	668829.0	4281465.0	Other Sensitive	0.74	0.003	0.05
10239	668839.0	4281465.0	Other Sensitive	0.76	0.003	0.05
10240	668849.0	4281465.0	Other Sensitive	0.78	0.003	0.05
10241	668859.0	4281465.0	Other Sensitive	0.80	0.003	0.05
10242	668869.0	4281465.0	Other Sensitive	0.83	0.003	0.05
10243	668879.0	4281465.0	Residential	0.85	0.003	0.05
10244	668889.0	4281465.0	Residential	0.86	0.003	0.05
10245	668899.0	4281465.0	Residential	0.87	0.003	0.05
10246	668909.0	4281465.0	Residential	0.88	0.003	0.05
10247	668919.0	4281465.0	Roadway/Open Space	-	-	0.05
10248	668929.0	4281465.0	Residential	0.89	0.004	0.05
10249	668939.0	4281465.0	Residential	0.90	0.004	0.05
10250	668949.0	4281465.0	Residential	0.90	0.004	0.05
10251	668959.0	4281465.0	Residential	0.90	0.004	0.05
10252	668969.0	4281465.0	Residential	0.91	0.004	0.05
10253	668979.0	4281465.0	Residential	0.92	0.004	0.05
10254	668989.0	4281465.0	Residential	0.92	0.004	0.05
10255	668999.0	4281465.0	Residential	0.91	0.004	0.05
10256	669009.0	4281465.0	Residential	0.90	0.004	0.05
10257	669019.0	4281465.0	Roadway/Open Space	-	-	0.05
10258	669029.0	4281465.0	Roadway/Open Space	-	-	0.04
10259	669039.0	4281465.0	Residential	0.85	0.003	0.04
10260	669049.0	4281465.0	Residential	0.84	0.003	0.04
10261	669059.0	4281465.0	Residential	0.83	0.003	0.03
10262	669069.0	4281465.0	Residential	0.82	0.003	0.03
10263	669079.0	4281465.0	Residential	0.82	0.003	0.03
10264	669089.0	4281465.0	Residential	0.82	0.003	0.03
10265	669099.0	4281465.0	Residential	0.82	0.003	0.03
10266	669109.0	4281465.0	Residential	0.82	0.003	0.03
10267	669119.0	4281465.0	Residential	0.81	0.003	0.03
10268	669129.0	4281465.0	Residential	0.81	0.003	0.02
10269	669139.0	4281465.0	Residential	0.81	0.003	0.03
10270	669149.0	4281465.0	Residential	0.81	0.003	0.03
10271	669159.0	4281465.0	Residential	0.81	0.003	0.03
10272	669169.0	4281465.0	Residential	0.80	0.003	0.02
10273	669179.0	4281465.0	Residential	0.80	0.003	0.02
10274	669189.0	4281465.0	Residential	0.80	0.003	0.02
10275	669199.0	4281465.0	Residential	0.81	0.003	0.02
10276	669209.0	4281465.0	Residential	0.80	0.003	0.02
10277	668729.0	4281475.0	Other Sensitive	0.57	0.002	0.03
10278	668739.0	4281475.0	Other Sensitive	0.58	0.002	0.03
10279	668749.0	4281475.0	Other Sensitive	0.60	0.002	0.03
10280	668759.0	4281475.0	Other Sensitive	0.62	0.002	0.03
10281	668769.0	4281475.0	Other Sensitive	0.63	0.002	0.03
10282	668779.0	4281475.0	Other Sensitive	0.64	0.002	0.03
10283	668789.0	4281475.0	Other Sensitive	0.66	0.003	0.03
10284	668799.0	4281475.0	Other Sensitive	0.68	0.003	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10285	668809.0	4281475.0	Other Sensitive	0.69	0.003	0.04
10286	668819.0	4281475.0	Other Sensitive	0.71	0.003	0.04
10287	668829.0	4281475.0	Other Sensitive	0.72	0.003	0.04
10288	668839.0	4281475.0	Other Sensitive	0.73	0.003	0.04
10289	668849.0	4281475.0	Other Sensitive	0.76	0.003	0.04
10290	668859.0	4281475.0	Other Sensitive	0.78	0.003	0.05
10291	668869.0	4281475.0	Other Sensitive	0.80	0.003	0.05
10292	668879.0	4281475.0	Residential	0.81	0.003	0.05
10293	668889.0	4281475.0	Residential	0.83	0.003	0.05
10294	668899.0	4281475.0	Residential	0.84	0.003	0.05
10295	668909.0	4281475.0	Residential	0.84	0.003	0.05
10296	668919.0	4281475.0	Roadway/Open Space	-	-	0.05
10297	668929.0	4281475.0	Residential	0.86	0.003	0.05
10298	668939.0	4281475.0	Residential	0.86	0.003	0.05
10299	668949.0	4281475.0	Residential	0.87	0.003	0.05
10300	668959.0	4281475.0	Residential	0.87	0.003	0.05
10301	668969.0	4281475.0	Residential	0.87	0.003	0.05
10302	668979.0	4281475.0	Residential	0.88	0.003	0.05
10303	668989.0	4281475.0	Residential	0.88	0.003	0.05
10304	668999.0	4281475.0	Residential	0.88	0.003	0.05
10305	669009.0	4281475.0	Residential	0.87	0.003	0.05
10306	669019.0	4281475.0	Roadway/Open Space	-	-	0.04
10307	669029.0	4281475.0	Roadway/Open Space	-	-	0.04
10308	669039.0	4281475.0	Roadway/Open Space	-	-	0.04
10309	669049.0	4281475.0	Roadway/Open Space	-	-	0.03
10310	669059.0	4281475.0	Residential	0.79	0.003	0.03
10311	669069.0	4281475.0	Residential	0.79	0.003	0.03
10312	669079.0	4281475.0	Residential	0.78	0.003	0.03
10313	669089.0	4281475.0	Residential	0.78	0.003	0.03
10314	669099.0	4281475.0	Residential	0.78	0.003	0.03
10315	669109.0	4281475.0	Residential	0.77	0.003	0.03
10316	669119.0	4281475.0	Residential	0.77	0.003	0.02
10317	669129.0	4281475.0	Residential	0.76	0.003	0.02
10318	669139.0	4281475.0	Residential	0.76	0.003	0.02
10319	669149.0	4281475.0	Residential	0.75	0.003	0.02
10320	669159.0	4281475.0	Residential	0.75	0.003	0.02
10321	669169.0	4281475.0	Residential	0.75	0.003	0.02
10322	669179.0	4281475.0	Residential	0.75	0.003	0.02
10323	669189.0	4281475.0	Residential	0.76	0.003	0.02
10324	668749.0	4281485.0	Other Sensitive	0.59	0.002	0.03
10325	668759.0	4281485.0	Other Sensitive	0.60	0.002	0.03
10326	668769.0	4281485.0	Other Sensitive	0.62	0.002	0.03
10327	668779.0	4281485.0	Other Sensitive	0.63	0.002	0.03
10328	668789.0	4281485.0	Other Sensitive	0.65	0.002	0.04
10329	668799.0	4281485.0	Other Sensitive	0.66	0.003	0.04
10330	668809.0	4281485.0	Other Sensitive	0.68	0.003	0.04
10331	668819.0	4281485.0	Other Sensitive	0.69	0.003	0.04
10332	668829.0	4281485.0	Other Sensitive	0.70	0.003	0.04
10333	668839.0	4281485.0	Other Sensitive	0.71	0.003	0.04
10334	668849.0	4281485.0	Other Sensitive	0.73	0.003	0.04
10335	668859.0	4281485.0	Other Sensitive	0.75	0.003	0.04
10336	668869.0	4281485.0	Roadway/Open Space	-	-	0.05
10337	668879.0	4281485.0	Residential	0.78	0.003	0.05
10338	668889.0	4281485.0	Residential	0.79	0.003	0.05
10339	668899.0	4281485.0	Residential	0.80	0.003	0.05
10340	668909.0	4281485.0	Residential	0.81	0.003	0.05
10341	668919.0	4281485.0	Roadway/Open Space	-	-	0.05
10342	668929.0	4281485.0	Residential	0.83	0.003	0.05
10343	668939.0	4281485.0	Residential	0.83	0.003	0.05
10344	668949.0	4281485.0	Residential	0.83	0.003	0.05
10345	668959.0	4281485.0	Residential	0.83	0.003	0.05
10346	668969.0	4281485.0	Residential	0.83	0.003	0.05
10347	668979.0	4281485.0	Residential	0.83	0.003	0.05
10348	668989.0	4281485.0	Residential	0.84	0.003	0.05
10349	668999.0	4281485.0	Residential	0.84	0.003	0.05
10350	669009.0	4281485.0	Residential	0.83	0.003	0.04
10351	669019.0	4281485.0	Roadway/Open Space	-	-	0.04
10352	669029.0	4281485.0	Residential	0.80	0.003	0.04
10353	669039.0	4281485.0	Residential	0.78	0.003	0.04
10354	669049.0	4281485.0	Residential	0.77	0.003	0.03
10355	669059.0	4281485.0	Roadway/Open Space	-	-	0.03
10356	669069.0	4281485.0	Roadway/Open Space	-	-	0.03
10357	669079.0	4281485.0	Roadway/Open Space	-	-	0.03
10358	669089.0	4281485.0	Residential	0.75	0.003	0.03
10359	669099.0	4281485.0	Residential	0.75	0.003	0.03
10360	669109.0	4281485.0	Residential	0.74	0.003	0.02
10361	669119.0	4281485.0	Residential	0.73	0.003	0.02
10362	669129.0	4281485.0	Residential	0.72	0.003	0.02
10363	669139.0	4281485.0	Residential	0.71	0.003	0.02
10364	669149.0	4281485.0	Residential	0.71	0.003	0.02
10365	669159.0	4281485.0	Residential	0.71	0.003	0.02
10366	668759.0	4281495.0	Roadway/Open Space	-	-	0.03
10367	668769.0	4281495.0	Roadway/Open Space	-	-	0.03
10368	668779.0	4281495.0	Roadway/Open Space	-	-	0.03

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10369	668789.0	4281495.0	Roadway/Open Space	-	-	0.04
10370	668799.0	4281495.0	Other Sensitive	0.65	0.003	0.04
10371	668809.0	4281495.0	Other Sensitive	0.66	0.003	0.04
10372	668819.0	4281495.0	Other Sensitive	0.67	0.003	0.04
10373	668829.0	4281495.0	Other Sensitive	0.68	0.003	0.04
10374	668839.0	4281495.0	Other Sensitive	0.69	0.003	0.04
10375	668849.0	4281495.0	Other Sensitive	0.70	0.003	0.04
10376	668859.0	4281495.0	Other Sensitive	0.72	0.003	0.04
10377	668869.0	4281495.0	Residential	0.74	0.003	0.05
10378	668879.0	4281495.0	Residential	0.75	0.003	0.05
10379	668889.0	4281495.0	Residential	0.76	0.003	0.05
10380	668899.0	4281495.0	Residential	0.78	0.003	0.05
10381	668909.0	4281495.0	Roadway/Open Space	-	-	0.05
10382	668919.0	4281495.0	Residential	0.79	0.003	0.05
10383	668929.0	4281495.0	Residential	0.79	0.003	0.05
10384	668939.0	4281495.0	Residential	0.80	0.003	0.04
10385	668949.0	4281495.0	Residential	0.79	0.003	0.05
10386	668959.0	4281495.0	Residential	0.79	0.003	0.05
10387	668969.0	4281495.0	Residential	0.79	0.003	0.05
10388	668979.0	4281495.0	Residential	0.79	0.003	0.05
10389	668989.0	4281495.0	Residential	0.79	0.003	0.04
10390	668999.0	4281495.0	Residential	0.79	0.003	0.04
10391	669009.0	4281495.0	Roadway/Open Space	-	-	0.04
10392	669019.0	4281495.0	Residential	0.77	0.003	0.04
10393	669029.0	4281495.0	Residential	0.76	0.003	0.04
10394	669039.0	4281495.0	Residential	0.75	0.003	0.03
10395	669049.0	4281495.0	Residential	0.75	0.003	0.03
10396	669059.0	4281495.0	Residential	0.74	0.003	0.03
10397	669069.0	4281495.0	Residential	0.73	0.003	0.03
10398	669079.0	4281495.0	Residential	0.73	0.003	0.03
10399	669089.0	4281495.0	Roadway/Open Space	-	-	0.03
10400	669099.0	4281495.0	Roadway/Open Space	-	-	0.03
10401	669109.0	4281495.0	Roadway/Open Space	-	-	0.02
10402	669119.0	4281495.0	Residential	0.70	0.003	0.02
10403	669129.0	4281495.0	Residential	0.69	0.003	0.02
10404	669139.0	4281495.0	Residential	0.68	0.003	0.02
10405	668779.0	4281505.0	Roadway/Open Space	-	-	0.03
10406	668789.0	4281505.0	Roadway/Open Space	-	-	0.04
10407	668799.0	4281505.0	Roadway/Open Space	-	-	0.04
10408	668809.0	4281505.0	Roadway/Open Space	-	-	0.04
10409	668819.0	4281505.0	Roadway/Open Space	-	-	0.04
10410	668829.0	4281505.0	Roadway/Open Space	-	-	0.04
10411	668839.0	4281505.0	Other Sensitive	0.66	0.003	0.04
10412	668849.0	4281505.0	Other Sensitive	0.67	0.003	0.04
10413	668859.0	4281505.0	Other Sensitive	0.69	0.003	0.04
10414	668869.0	4281505.0	Residential	0.71	0.003	0.04
10415	668879.0	4281505.0	Residential	0.72	0.003	0.05
10416	668889.0	4281505.0	Residential	0.74	0.003	0.05
10417	668899.0	4281505.0	Residential	0.75	0.003	0.05
10418	668909.0	4281505.0	Roadway/Open Space	-	-	0.04
10419	668919.0	4281505.0	Residential	0.76	0.003	0.04
10420	668929.0	4281505.0	Residential	0.77	0.003	0.04
10421	668939.0	4281505.0	Residential	0.76	0.003	0.04
10422	668949.0	4281505.0	Residential	0.76	0.003	0.04
10423	668959.0	4281505.0	Residential	0.75	0.003	0.04
10424	668969.0	4281505.0	Residential	0.75	0.003	0.04
10425	668979.0	4281505.0	Residential	0.75	0.003	0.04
10426	668989.0	4281505.0	Residential	0.74	0.003	0.04
10427	668999.0	4281505.0	Residential	0.74	0.003	0.04
10428	669009.0	4281505.0	Roadway/Open Space	-	-	0.04
10429	669019.0	4281505.0	Residential	0.73	0.003	0.04
10430	669029.0	4281505.0	Residential	0.72	0.003	0.04
10431	669039.0	4281505.0	Residential	0.72	0.003	0.03
10432	669049.0	4281505.0	Residential	0.72	0.003	0.03
10433	669059.0	4281505.0	Residential	0.72	0.003	0.03
10434	669069.0	4281505.0	Residential	0.72	0.003	0.03
10435	669079.0	4281505.0	Residential	0.72	0.003	0.03
10436	669089.0	4281505.0	Residential	0.73	0.003	0.03
10437	669099.0	4281505.0	Residential	0.72	0.003	0.03
10438	669109.0	4281505.0	Residential	0.70	0.003	0.02
10439	669119.0	4281505.0	Roadway/Open Space	-	-	0.02
10440	668809.0	4281515.0	Roadway/Open Space	-	-	0.04
10441	668819.0	4281515.0	Roadway/Open Space	-	-	0.04
10442	668829.0	4281515.0	Roadway/Open Space	-	-	0.04
10443	668839.0	4281515.0	Roadway/Open Space	-	-	0.04
10444	668849.0	4281515.0	Roadway/Open Space	-	-	0.04
10445	668859.0	4281515.0	Roadway/Open Space	-	-	0.04
10446	668869.0	4281515.0	Residential	0.67	0.003	0.04
10447	668879.0	4281515.0	Residential	0.69	0.003	0.04
10448	668889.0	4281515.0	Residential	0.71	0.003	0.04
10449	668899.0	4281515.0	Residential	0.72	0.003	0.04
10450	668909.0	4281515.0	Roadway/Open Space	-	-	0.04
10451	668919.0	4281515.0	Residential	0.74	0.003	0.04
10452	668929.0	4281515.0	Residential	0.74	0.003	0.04

Table E-2. Health Risk Assessment Results for All Receptors - Mitigated Project Construction and Operation
El Dorado Hills Costco Project
El Dorado Hills, California

Receptor ID ¹	UTM X	UTM Y	Receptor Type	Cancer Risk ² (in a million)	Chronic Hazard Index ²	Acute Hazard Index
10453	668939.0	4281515.0	Residential	0.73	0.003	0.04
10454	668949.0	4281515.0	Residential	0.72	0.003	0.04
10455	668959.0	4281515.0	Residential	0.72	0.003	0.04
10456	668969.0	4281515.0	Residential	0.71	0.003	0.04
10457	668979.0	4281515.0	Residential	0.71	0.003	0.04
10458	668989.0	4281515.0	Residential	0.70	0.003	0.04
10459	668999.0	4281515.0	Residential	0.70	0.003	0.04
10460	669009.0	4281515.0	Roadway/Open Space	-	-	0.04
10461	669019.0	4281515.0	Residential	0.69	0.003	0.04
10462	669029.0	4281515.0	Residential	0.69	0.003	0.03
10463	669039.0	4281515.0	Residential	0.69	0.003	0.03
10464	669049.0	4281515.0	Residential	0.69	0.003	0.03
10465	669059.0	4281515.0	Residential	0.70	0.003	0.03
10466	669069.0	4281515.0	Residential	0.71	0.003	0.03
10467	669079.0	4281515.0	Residential	0.72	0.003	0.03
10468	669089.0	4281515.0	Residential	0.72	0.003	0.03
10469	668839.0	4281525.0	Roadway/Open Space	-	-	0.04
10470	668849.0	4281525.0	Roadway/Open Space	-	-	0.04
10471	668859.0	4281525.0	Roadway/Open Space	-	-	0.04
10472	668869.0	4281525.0	Roadway/Open Space	-	-	0.04
10473	668879.0	4281525.0	Residential	0.66	0.003	0.04
10474	668889.0	4281525.0	Residential	0.68	0.003	0.04
10475	668899.0	4281525.0	Roadway/Open Space	-	-	0.04
10476	668909.0	4281525.0	Roadway/Open Space	-	-	0.04
10477	668919.0	4281525.0	Residential	0.72	0.003	0.04
10478	668929.0	4281525.0	Residential	0.71	0.003	0.04
10479	668939.0	4281525.0	Residential	0.70	0.003	0.04
10480	668949.0	4281525.0	Residential	0.69	0.003	0.04
10481	668959.0	4281525.0	Residential	0.69	0.003	0.04
10482	668969.0	4281525.0	Residential	0.68	0.003	0.04
10483	668979.0	4281525.0	Residential	0.67	0.003	0.04
10484	668989.0	4281525.0	Residential	0.67	0.003	0.04
10485	668999.0	4281525.0	Roadway/Open Space	-	-	0.04
10486	669009.0	4281525.0	Residential	0.66	0.003	0.03
10487	669019.0	4281525.0	Residential	0.65	0.003	0.03
10488	669029.0	4281525.0	Residential	0.65	0.003	0.03
10489	669039.0	4281525.0	Residential	0.66	0.003	0.03
10490	669049.0	4281525.0	Residential	0.66	0.003	0.03
10491	669059.0	4281525.0	Residential	0.67	0.003	0.03
10492	668879.0	4281535.0	Roadway/Open Space	-	-	0.04
10493	668889.0	4281535.0	Roadway/Open Space	-	-	0.04
10494	668899.0	4281535.0	Roadway/Open Space	-	-	0.04
10495	668909.0	4281535.0	Residential	0.69	0.003	0.04
10496	668919.0	4281535.0	Residential	0.69	0.003	0.04
10497	668929.0	4281535.0	Residential	0.69	0.003	0.04
10498	668939.0	4281535.0	Residential	0.68	0.003	0.04
10499	668949.0	4281535.0	Residential	0.67	0.003	0.04
10500	668959.0	4281535.0	Residential	0.66	0.003	0.04
10501	668969.0	4281535.0	Residential	0.65	0.003	0.04
10502	668979.0	4281535.0	Residential	0.64	0.003	0.04
10503	668989.0	4281535.0	Residential	0.63	0.002	0.03
10504	668999.0	4281535.0	Roadway/Open Space	-	-	0.03
10505	669009.0	4281535.0	Residential	0.62	0.002	0.03
10506	669019.0	4281535.0	Residential	0.62	0.002	0.03

Notes:

¹ The receptors with the maximum estimated cancer risk, chronic hazard index, and acute hazard index for each receptor type are highlighted in light grey.
² Cancer risk and chronic hazard index are not assessed for Roadway/Open Space receptors, as long term exposures are not expected at these locations.

North Site Remainder Area Technical Report

Prepared for
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Project Number
1940110459

Date
October 2025

EDH COSTCO PROJECT NORTH SITE REMAINDER AREA TECHNICAL REPORT EL DORADO HILLS, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

Acronym	Definition
AQ	air quality
CalEEMod	California Emissions Estimator Model®
CAP	criteria air pollutants
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CO	carbon monoxide
CO _{2e}	carbon dioxide equivalent
DPM	diesel particulate matter
EDCAQMD	El Dorado County Air Quality Management District
EDH	El Dorado Hills
EPA	Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
H ₂ S	hydrogen sulfide
HI	hazard index
hp	horsepower
lb	pound
MT	metric tonne
MTP/SCS	Metropolitan Transportation Plan & Sustainable Communities Strategy
MW	megawatts
NOA	naturally occurring asbestos
NO _x	nitrogen oxides
O ₃	ozone
PCAPCD	Placer County Air Pollution Control District
PG&E	Pacific Gas and Electric Company
PM ₁₀	particulate matter less than 10 microns in diameter
PM _{2.5}	particulate matter less than 2.5 microns in diameter
ROG	reactive organic gases
RTP	Regional Transportation Plan
SACOG	Sacramento Area Council of Governments
SO ₂	sulfur dioxide
SO _x	sulfur oxides
TAC	toxic air contaminant
TDM	Transportation Demand Management
VMT	vehicle miles travelled
VOC	volatile organic compound

1. INTRODUCTION

Ramboll Americas Engineering Solutions, Inc. (Ramboll) was retained to prepare a Technical Report on the air quality (AQ), greenhouse gas (GHG), and energy impacts for potential future development in the North Site Remainder Area ("Remainder Area Development"), in addition to the AQ, GHG, and Energy technical reports for the proposed El Dorado Hills (EDH) Costco Project located north of the Silva Valley Parkway/US 50 interchange in the El Dorado Hills community area of the unincorporated El Dorado County in California. For simplicity, the North Site Remainder Area and the proposed EDH Costco Project are collectively referred to hereafter as the proposed Project.

This Technical Report analyzes the AQ, GHG, and energy impacts of the potential Remainder Area Development at a program/plan level. Specifically, it describes the maximum development assumptions for the Remainder Area Development and estimates criteria air pollutant emissions, GHG emissions, and energy use associated with the construction and operations of this development. Additionally, this report evaluates the potential aggregate AQ, GHG, and energy impacts of the proposed Project (both the North Site Remainder Area and the EDH Costco Project).

1.1 Existing Conditions

The Project site is currently vacant grassland with scattered oak trees and seasonal drainage features. There are no permanent structures on the site. The southern edge of the property directly abuts the US 50 right-of-way, while the western boundary is adjacent to Clarksville Crossing. An approximate 7.75-acre portion of the northern site is reserved for a planned future extension of Country Club Drive, which is not part of the proposed Project.

Surrounding land uses include:

- North: Single-family residential uses and Oak Meadow Elementary School
- East: Vacant land, Tong Road, and single-family residential uses
- South: U.S. Highway 50 and Tong Road
- West: Clarksville Crossing roadway, open space, and undeveloped land

1.2 Potential Development in the North Site Remainder Area

An approximately 13.79-acre out-parcel on the North Site would remain undeveloped at this time (North Site Remainder Area). The EDH Costco Project proposes no development for the North Site Remainder Area. However, future development of the North Site Remainder Area would be made more reasonably foreseeable by the proposed annexation of the entire North Site into the El Dorado Irrigation District and the El Dorado Hills Fire Department service areas. Since such annexations are assumed to facilitate possible future development of the North Site Remainder Area, even though there is not even a conceptual or contemplated plan for build out of that land, this analysis conservatively assumes that such land would be developed consistent with the General Plan and zoning designations and density. The assumed potential commercial development of the North Site Remainder Area is approximately 138,000 square feet and 316 employees. The future extension of Country Club Drive (County Capital Improvement Project No. 36105008), when constructed by the County, would occupy a portion of the North Site near its northern edge, though the future extension is an independent project proposed by, and to be undertaken by, the County and is not analyzed as a part of the proposed Project.

2. SIGNIFICANCE THRESHOLDS

The Remainder Area Development would be adjacent to the EDH Costco Project and is subject to the identical regulatory settings and significance thresholds previously described for the EDH Costco Project in the technical reports.^{1,2,3} The analysis provided in this technical memorandum evaluates whether the Project would result in any potentially significant impacts regarding the following questions:

- Threshold AQ-1.** Would the Project conflict with or obstruct implementation of the applicable air quality plan?
- Threshold AQ-2.** Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?
- Threshold AQ-3.** Would the Project expose sensitive receptors to substantial pollutant concentrations?
- Threshold AQ-4.** Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?
- Threshold GHG-1.** Would the Project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Threshold GHG-2.** Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?
- Threshold ENE-1.** Would the Project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?
- Threshold ENE-2.** Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

2.1 Approach to Significance

As described in Section 3.2 of the EDH Costco Project Air Quality Technical Report, the El Dorado County Air Quality Management District (EDCAQMD) has established significance thresholds to assess the impacts of project-related construction and operational emissions, in its California Environmental Quality Act (CEQA) Guide. Table 3-1 in the EDH Costco Project Air Quality Technical Report shows the quantitative mass daily thresholds for construction and operation as adopted by the EDCAQMD reactive organic gases (ROG) and nitrogen oxides (NO_x) emissions. The analysis summarized in this report estimates program/plan level construction and operational mass emissions for the proposed Project and compares the emissions to these significance thresholds.

EDCAQMD has also established significance thresholds for other criteria air pollutants (CAPs) including carbon monoxide (CO), particulate matter less than 10 microns in diameter (PM₁₀), sulfur dioxide (SO₂), nitrogen dioxide, sulfates, lead, hydrogen sulfide (H₂S), and visibility-reducing particles. Project-related emissions of these pollutants are considered to

¹ Ramboll. 2025. EDH Costco Project Air Quality Technical Report.

² Ramboll. 2025. EDH Costco Project Greenhouse Gas Technical Report.

³ Ramboll. 2025. EDH Costco Project Energy Technical Report.

have significant impacts if these emissions will cause or contribute to a violation of the applicable national or state ambient air quality standard. The EDCAQMD provides screening techniques to evaluate if a project's CAP emissions would have a less-than-significant impact in Chapters 4 and 6 of the EDCAQMD CEQA Guide.⁴ This analysis in this report estimates the program/plan level construction and operational mass emissions of CO, PM₁₀, sulfur oxides (SO_x), and NO_x for the proposed Project and evaluates the significance of their impacts using these screening techniques established in the EDCAQMD CEQA Guide.⁵

The EDCAQMD has also established significance thresholds to assess health risk impacts of TACs from project-related emission sources on nearby sensitive receptors including residents and other human populations, which are applicable to the program-level impact analysis in this report.⁶ These include a maximum incremental cancer risk of one-in-a-million (or ten-in-a-million if best available control technology for toxics (T-BACT) is applied), and incremental chronic and acute hazard indices (HIs) of 1. The analysis summarized in this report evaluates the human health risk impacts from on-site construction and operational emissions against these significance thresholds established by EDCAQMD.

This Technical Report also performs a qualitative assessment of odors from the proposed Project to evaluate if they would have the potential to generate odorous emissions that would meet the statutory definition for nuisance, in accordance with the EDCAQMD CEQA Guide.⁷

This report, relative to Threshold AQ-1, evaluates whether the proposed Project would conflict with applicable plans related to emissions, including the regional air quality attainment plans. This report, relative to Threshold AQ-2, quantifies the proposed Project's emissions during construction and operations and compares those results to the applicable EDCAQMD thresholds. Relative to Threshold AQ-3, this report includes a CO hotspots analysis and a semi-quantitative assessment of the potential health risk impacts to sensitive receptors. This report, relative to Threshold AQ-4, evaluates the potential for odor-generating activities from the proposed Project.

As discussed in Section 3.2 of the EDH Costco Greenhouse Gas Technical Report, El Dorado County provides some basic information on climate change including an overview of GHG regulations and local, state, and national efforts to address climate change; however, it has not established a quantitative or qualitative guidance to evaluate GHG emission impacts of development projects under CEQA.⁸ Additionally, EDCAQMD has also not set quantitative GHG significance thresholds. In the absence of a quantitative GHG threshold from El Dorado County and EDCAQMD, this Technical Report assessed significance of GHG impacts for Threshold GHG-1 against the Placer County Air Pollution Control District (PCAPCD) GHG significance thresholds (Table 3-1 of the EDH Costco Greenhouse Gas Technical Report), in consultation with EDCAQMD and El Dorado County.

⁴ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

⁵ Ibid.

⁶ Ibid.

⁷ Ibid.

⁸ Ibid.

PCAPCD's GHG significance thresholds are reasonable to assess significance in the absence of a quantitative threshold from EDCAQMD because Placer County is similar to El Dorado County demographically, geographically, and meteorologically. Both Placer County and El Dorado County have similar land use patterns (i.e., they are both heavily made up of rural and suburban areas), with similar rates of population growth. Additionally, both counties have similar terrain and lie within the same air basin. Because of this, PCAPCD's quantitative GHG thresholds were used to assess significance against the Project relative to Threshold GHG-1.

Relative to Threshold GHG-2, this report evaluates whether the Project would conflict with the 2022 Scoping Plan Update,⁹ Sacramento Area Council of Governments' (SACOG's) 2020 future Metropolitan Transportation Plan & Sustainable Communities Strategy (MTP/SCS),¹⁰ and the El Dorado County Regional Transportation Plan (RTP) 2020-2040.¹¹

This report evaluates the proposed Project's energy consumption against the six categories of potential energy-related environmental impacts from Appendix F of the CEQA Guidelines:

1. The Project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the Project including construction, operation, maintenance and/or removal. If appropriate the energy intensiveness of materials may be discussed.
2. The effects of the Project on local and regional energy supplies and on requirements for additional capacity.
3. The effects of the Project on peak and base period demands for electricity and other forms of energy.
4. The degree to which the Project complies with existing energy standards.
5. The effects of the Project on energy resources.
6. The Project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

This report, relative to Threshold ENE-1, assesses the proposed Project's electricity, natural gas, and fossil fuel consumption during construction and operation by way of the six questions above. This report, relative to Threshold ENE-2, evaluates whether the proposed Project would conflict with applicable plans related to renewable energy and energy efficiency.

⁹ CARB. 2022. 2022 CARB Scoping Plan Update - Appendix D, Local Actions. Available at: <https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf>. Accessed: October 2025.

¹⁰ SACOG. 2020. 2020 SACOG MTP/SCS. Available at: <https://www.sacog.org/home/showpublisheddocument/76/638212804736270000>. Accessed: October 2025.

¹¹ El Dorado County Transportation Commission. 2020. El Dorado County Regional Transportation Plan 2020-2040. November 5. Available at: <https://www.edctc.org/files/2859e4e3f/RTP+2040.pdf>. Accessed: October 2025.

3. EMISSIONS INVENTORIES AND ENERGY PROJECTIONS

This section provides a brief description of the methodology that Ramboll used to develop CAP, GHG, and energy inventories associated with the Remainder Area Development, which include one-time emissions from construction and long-term operational emissions. This section also presents the CAP, GHG, and energy inventories of the North Site Remainder Area and the proposed Project.

The analysis in this report utilized the California Emissions Estimator Model (CalEEMod) version 2022.1 methodology to quantify CAP and GHG emissions for the Remainder Area Development (**Appendix A**). This report presents assumptions only when they differ from the analysis for the EDH Costco Project, detailed in the EDH Costco Project's technical reports. Unless otherwise stated, CalEEMod default parameters were used to estimate the emission inventories.

As presented in **Section 1**, the Remainder Area Development would, at a maximum, develop 138,000 square feet of commercial/retail land uses, categorized as regional shopping center in CalEEMod. The remaining area of the parcel is conservatively assumed to be developed into asphalt-paved parking lots, totaling approximately 10.6 acres. The land use assumptions used to generate CalEEMod default construction and operational activities are included in **Appendix A**.

Construction of the North Site Remainder Area is assumed to start as early as May 2027, immediately after the EDH Costco Project construction concludes. Operation of the North Site Remainder Area is assumed to start as soon as the construction concludes.

3.1 Construction Emission Inventories and Energy Projection

Construction schedule, off-road equipment activities and on-road vehicle trip assumptions are provided in **Appendix B**. Because the material movement volumes required to construct in the Remainder Area are currently unknown, they are conservatively assumed to be the same as EDH Costco Project's Construction Scenario 2.

Criteria Air Pollutant Inventory

Average daily construction emissions for each quarter of the North Site Remainder Area construction are calculated based on CalEEMod outputs and are included in **Appendix C**.

Table 3-1 summarizes the average daily criteria pollutant emissions from construction of the North Site Remainder Area as compared to the applicable EDCAQMD thresholds. As shown in this table, the average daily unmitigated emissions of ROG and NO_x from the construction of the Remainder Area Development are below EDCAQMD's thresholds for construction. While EDCAQMD has not adopted mass daily numerical thresholds for other CAP emissions from construction, the EDCAQMD CEQA Guide¹² states that if ROG and NO_x exhaust emissions from construction are deemed not significant, then exhaust emissions of CO and PM₁₀ may also be deemed not significant. Hence, air quality impacts of all CAPs (ROG, NO_x, CO, and

¹² EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

PM₁₀) from the exhaust of construction equipment and on-road vehicles associated with the construction of the North Site Remainder Area are less than significant.

The EDCAQMD CEQA Guide¹³ states that fugitive dust PM₁₀ emissions may be assumed to be not significant, if the project complies with EDCAQMD Rule 223 and Rule 223-1 for fugitive dust control by implementing control measures that will prevent visible dust beyond the project property lines. The proposed Project will comply with these fugitive dust control rules. Hence, the air quality impacts of fugitive dust emissions from the construction North Site Remainder Area are less than significant.

North Site Remainder Area construction activities are expected to generate negligible emissions of SO₂, sulfates, lead, and H₂S. Therefore, the air quality impacts of these emissions from the construction of the North Site Remainder Area are also less than significant.

Although EDCAQMD has established separate daily mass significance thresholds for short-term construction and long-term operational phases of development projects, this analysis conservatively compares the combined average daily emissions from the construction of the Remainder Area land and the EDH Costco Project operation to EDCAQMD's mass daily construction thresholds. As shown in **Table 3-2**, these combined unmitigated average daily emissions exceed EDCAQMD's construction threshold for ROG but remain below the threshold for NO_x.

Mitigated Criteria Air Pollutant Inventory

In order to ensure that the combined average daily ROG emissions from the construction of the Remainder Area Development and the EDH Costco Project operation are below the EDCAQMD's mass daily construction thresholds, the following mitigation measure will be implemented during the construction of the Remainder Area.

- **Mitigation Measure 3.2-2: Architectural Coating Volatile Organic Compound (VOC) Limits for Development of the North Site Remainder Area**

Future building construction of the North Site Remainder Area shall only use architectural coatings with a VOC content not exceeding 100 grams per liter during construction for all interior and exterior spaces. This requirement shall be included in plans submitted for review by the County prior to the issuance of building permits.

Additionally, the following mitigation measures that will be implemented during the construction of the EDH Costco Project to address health risk impacts and asbestos dust will also apply to the construction of the Remainder Area Development:

- **Mitigation Measure 3.2-4a: Apply Tier-4 Emission Standards to Diesel-Powered Off-Road Equipment**

Construction equipment greater than 50 horsepower (hp) used at the site shall meet Environmental Protection Agency (EPA) Tier 4 Final emission standards for PM₁₀ and particulate matter less than 2.5 microns in diameter (PM_{2.5}), if available. If Tier 4 Final equipment is not available, all construction equipment larger than 50 hp used at the site shall meet EPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to California Air Resources Board (CARB) Level 3 verifiable

¹³ Ibid.

diesel emission control devices. This requirement shall apply to the construction of the Costco project and construction of the North Site Remainder Area.

- **Mitigation Measure 3.2-4b: Implement Asbestos Dust Mitigation Consistent with EDCAQMD Rule 223-1**

An Asbestos Dust Mitigation Plan shall be prepared and submitted to the EDCAQMD and the County for review and approval by EDCAQMD for implementation during construction on the Costco project, future development of the North Site Remainder Area, and for off-site roadway improvements (if the presence of naturally occurring asbestos (NOA) is confirmed). The Asbestos Dust Mitigation Plan shall comply with the El Dorado County Code Chapter 8.44 (Asbestos and Dust Protection) and EDCAQMD Rule 223-2, which provides performance standards for ensuring that adverse impacts do not result from asbestos dust during construction.

Table 3-3 summarizes the average daily mitigated criteria pollutant emissions from construction of the North Site Remainder Area as compared to the applicable EDCAQMD thresholds. As shown in this table, the average daily unmitigated emissions of ROG and NO_x from the construction of the Remainder Area Development are below EDCAQMD's thresholds for construction. While EDCAQMD has not adopted mass daily numerical thresholds for other CAP emissions from construction, the EDCAQMD CEQA Guide¹⁴ states that if ROG and NO_x exhaust emissions from construction are deemed not significant, then exhaust emissions of CO and PM₁₀ may also be deemed not significant. Hence, air quality impacts of all CAPs (ROG, NO_x, CO, and PM₁₀) from the exhaust of construction equipment and on-road vehicles associated with the construction of the North Site Remainder Area are less than significant.

The EDCAQMD CEQA Guide¹⁵ states that fugitive dust PM₁₀ emissions may be assumed to be not significant, if the project complies with EDCAQMD Rule 223 and Rule 223-1 for fugitive dust control by implementing control measures that will prevent visible dust beyond the project property lines. The proposed Project will comply with these fugitive dust control rules. Hence, the air quality impacts of fugitive dust emissions from the construction North Site Remainder Area are less than significant.

North Site Remainder Area construction activities are expected to generate negligible emissions of SO₂, sulfates, lead, and H₂S. Therefore, the air quality impacts of these emissions from the construction of the North Site Remainder Area are also less than significant.

Although EDCAQMD has established separate daily mass significance thresholds for short-term construction and long-term operational phases of development projects, this analysis conservatively compares the combined average daily mitigated emissions from the construction of the Remainder Area land and the EDH Costco Project operation to EDCAQMD's mass daily construction thresholds. As shown in **Table 3-4**, with the inclusion of **Mitigation Measure 3.2-2**, which involves using low VOC paints during construction of the Remainder Area land uses, the combined average daily construction and operation emissions are below EDCAQMD's construction mass daily significance thresholds for both ROG and NO_x.

¹⁴ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

¹⁵ Ibid.

Greenhouse Gas Emissions Inventory

GHG emissions associated with the construction of the North Site Remainder Area are estimated using CalEEMod (**Appendix A**) and summarized in **Table 3-5**. As shown in **Table 3-5**, the annual GHG emissions associated with the construction of the North Site Remainder Area are less than the PCAPCD's GHG significance threshold for construction.¹⁶

Energy Projection

Energy consumption associated with the construction of the North Site Remainder Area are estimated using methodologies described in Section 4.1 of the EDH Costco Energy Technical Report and summarized in **Table 3-6**. Additional details on the fuel consumption of off-road construction equipment and on-road vehicle use during the North Site Remainder Area construction are provided in **Appendix D**.

3.2 Operational Emission Inventories and Energy Projection

A summary of the key assumptions associated with the operation of the North Site Remainder Area including mobile source activity, County-specific consumer product emission factors, and GHG emission factors for electricity are provided in **Appendix E**. These assumptions were incorporated into the CalEEMod model run in **Appendix A**.

Criteria Air Pollutant Inventory

Table 3-7 summarizes the maximum daily criteria air pollutant emissions associated with the operation of the North Site Remainder Area and the EDH Costco Project. As shown in this table, the maximum daily ROG and NO_x emissions associated with proposed Project (North Site Remainder Area and EDH Costco Project) operation are below EDCAQMD's mass daily significance thresholds for operation.

While EDCAQMD has not adopted mass daily numerical thresholds for other CAP emissions, it considers a project to have a significant impact on air quality if it will cause or contribute significantly to a violation of the National Ambient Air Quality Standards or California Ambient Air Quality Standards for CO, PM₁₀, SO₂, sulfates, lead, H₂S.

The EDCAQMD CEQA Guide¹⁷ states that development projects, with land use types similar to the proposed Project, that are deemed less than significant for ROG and NO_x emissions based on land use size screening criteria, can also be considered less than significant for CO emissions. Using this screening approach, we can consider the air quality impacts of CO emissions from the proposed Project operation to be less than significant because the proposed Project's ROG and NO_x emissions are less than EDCAQMD's mass daily significance thresholds. Hence, the air quality impacts of operational CO emissions from the proposed Project are less than significant.

The EDCAQMD CEQA Guide¹⁸ states that PM₁₀ emissions from land development projects primarily associated with gasoline-powered vehicles may be assumed to be insignificant if the projects do not generate heavy-duty diesel vehicle trips in greater proportion than the

¹⁶ PCAPCD CEQA Handbook. 2017. Chapter 2 Thresholds of Significance. Available at: <https://www.placerair.org/DocumentCenter/View/2047/Chapter-2-Thresholds-of-Significance-PDF>. Accessed: October 2025.

¹⁷ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

¹⁸ Ibid.

general mix of such trips in public roadways. The proposed Project is not expected to generate heavy-duty diesel vehicle trips in greater proportion than the general mix of such trips in public roadways in the vicinity of the Project site and the air quality impacts of operational PM₁₀ emissions from the proposed Project are less than significant.¹⁹

The EDCAQMD CEQA Guide²⁰ states that emissions associated with project operations that are less than 10 pounds per day of a pollutant may be presumed to have impacts that are not significant for that pollutant. Since SO_x emissions associated with the proposed Project operation are less than 10 pounds per day (**Table 3-7**), emissions of these pollutants are less than significant.

The proposed Project is a development project that is not a significant source of lead, sulfates, and H₂S. Hence, the emissions of these pollutants are less than significant.

Finally, according to the EDCAQMD CEQA Guide,²¹ visibility impacts from development projects can be considered less than significant. Therefore, the proposed Project impacts on visibility are less than significant.

Greenhouse Gas Emissions Inventory

Table 3-8 summarizes the annual operational GHG emissions associated with the operation of the proposed Project (3,954 metric tonnes of carbon dioxide equivalent emissions per year (MT CO₂e per year) for the North Site Remainder Area and the EDH Costco Project). Because the exact energy efficiency and sustainability features of the North Site Remainder Area are not known at the time of preparation of this report, GHG reduction features of EDH Costco Project were not assumed for the Remainder Area Development.

PCAPCD CEQA Guidelines²² have a three-tiered approach for assessing GHG emissions from land use projects. For projects with annual operational GHG emissions between 1,100 and 10,000 MT CO₂e per year, PCAPCD recommends applying its GHG Efficiency Matrix to determine significance.

As shown in **Table 3-8**, the proposed Project's estimated annual operational emissions fall within this range. Based on a total building square footage of 303,200 square feet (138,000 square feet for the North Site Remainder Area and 165,200 square feet for the EDH Costco Project), the calculated GHG efficiency for the proposed Project is 13.04 MT CO₂e per 1,000 square feet.²³ This is below the applicable conservative threshold of 26.5 MT CO₂e per 1,000 square feet for nonresidential projects located in urban areas, as defined by PCAPCD.

¹⁹ As noted in Section 4.3.6 of the Air Quality Technical Report, the heavy-duty diesel vehicle trips generated by the EDH Costco Project are less than 0.25% of the total Project trips. Additionally, for purposes of this analysis the heavy-duty diesel vehicle trips generated by the Remainder Area as assumed to be similar to the general fleet mix in El Dorado County, based on the default fleet mix in CalEEMod. Hence, the fraction of heavy-duty diesel vehicle trips generated by the proposed Project (EDH Costco and North Site Remainder Area) will be lower than the approximately 6% of heavy-duty diesel trucks operating on the roads in El Dorado County.

²⁰ Ibid.

²¹ Ibid.

²² PCAPCD CEQA Handbook. 2017. Chapter 2 Thresholds of Significance. Available at: <https://www.placerair.org/DocumentCenter/View/2047/Chapter-2-Thresholds-of-Significance-PDF>. Accessed: October 2025.

²³ Note, the Proposed Project GHG efficiency would be 16.94 MT CO₂e per 1,000 square feet if the analysis accounted for the greenhouse gas emission benefits associated with only the mandatory electric vehicle charging requirements (1,097 kW total power) in the 2025 California Green Building Standards Code. This value is also below the applicable conservative threshold of 26.5 MT CO₂e per 1,000 square feet for non-residential projects located in urban areas, as defined by PCAPCD.

Therefore, the proposed Project's operational GHG emissions are considered to be less than significant.

Energy Projection

Energy consumption associated with the operation of the North Site Remainder Area are estimated using methodologies described in Section 4.2 of the EDH Costco Energy Technical Report and summarized in **Table 3-9**. Additional details on the operational electricity, natural gas, diesel and gasoline consumption are provided in **Appendix F**.

4. PROGRAM-LEVEL AIR QUALITY IMPACT ANALYSIS

This section assesses the significance of the proposed Project's air pollutant emissions for purposes of CEQA.

4.1 Threshold AQ-1: Would the Project conflict with or obstruct implementation of the applicable air quality plan?

According to the EDCAQMD CEQA Guide,²⁴ development projects in the Mountain Counties Air Basin portion of the County are considered consistent with the applicable air quality plan if:

1. The Project does not require a change in the existing land use designation (e.g., a general plan amendment or rezone), and projected emissions of ROG and NO_x from the Project are equal or less than the emissions anticipated for the site if developed under the existing land use designation;
2. The Project does not exceed the "project alone" significance criteria;
3. The lead agency for the Project requires the Project to implement any applicable emission reduction measures contained in and/or derived from the air quality attainment plan; and
4. The Project complies with all applicable district rules and regulations.

El Dorado County's General Plan designates the Project site as Commercial (C). Zoning includes Commercial Regional-Planned Development (CR-PD), with smaller areas of Commercial Limited and Transportation Corridor. Once operational, the proposed Project would be a regional commercial center, which is consistent with the existing designation of the County's General Plan and zoning. Hence, the anticipated growth associated with the Project is generally accounted for in the 2023 Ozone Plan²⁵ and would be accounted for in forthcoming attainment plans.

As described in **Section 3.1** and **Section 3.2**, the air quality impacts of CAPs associated with the proposed Project construction and operation are less than significant. Therefore, the proposed Project does not exceed the "project alone" significance criteria.

The applicable air quality attainment plans for the Project area are the Sacramento Regional 8-hour Ozone Attainment and Reasonable Further Progress Plan²⁶ and PM_{2.5} Maintenance Plan and Redesignation Request.²⁷ As such the proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under these plans (see **Section 4.2** below for further details). Hence, the

²⁴ EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

²⁵ Sacramento Region Air Quality Plans. Available at: <https://ww2.arb.ca.gov/our-work/programs/california-state-implementation-plans/nonattainment-area-plans/sacramento-region>. Accessed: October 2025.

²⁶ Ibid.

²⁷ EDCAQMD, Placer County Air Pollution Control District, SMAQMD, and Yolo-Solano Air Quality Management District. PM_{2.5} Implementation/Maintenance Plan and Redesignation Request for Sacramento PM_{2.5} Nonattainment Area. October 24. Available at: <http://www.airquality.org/ProgramCoordination/Documents/PM2.5%20Imp%20and%20Redesignation%202013.pdf>. Accessed: October 2025.

proposed Project is not required to implement any additional mitigation measures contained in these plans.

As described in **Section 3.1** of this report and Sections 4.2.3 and 5.1.1 of the EDH Costco Project Air Quality Technical Report the proposed Project would comply with EDCAQMD Rules 223-1 and 223-2 for fugitive dust control²⁸ and asbestos hazard mitigation²⁹ during construction. The proposed Project is located in an area where NOA could be present.³⁰ Although the proposed Project's Geotechnical Study³¹ concluded that the potential for NOA to be encountered at levels at or exceeding regulatory threshold level is considered low, the proposed Project would implement asbestos dust mitigation measures consistent with EDCAQMD Rule 223-1 through the implementation of **Mitigation Measure 3.2-4b**. The proposed Project would also comply with all other applicable EDCAQMD rules.

Therefore, the proposed Project would not conflict with or obstruct implementation of the applicable air quality plans for the Project region.

4.2 Threshold AQ-2: Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

As discussed in the EDH Costco Project Air Quality Technical Report, the Project region is currently designated as non-attainment for the State 1-hour ozone (O₃) standard, the federal and the State 8-hour O₃ standard, the State PM₁₀ standards, and the federal 24-hour PM_{2.5} standard.

The two primary precursors for O₃ formation are ROG and NO_x. Table 4-12 of the EDH Costco Air Quality Report, and **Table 3-1** and **Table 3-7** of this report present the average daily and maximum daily ROG and NO_x emissions associated with the proposed Project construction and operation. Emissions of these O₃ precursors (ROG and NO_x) are below the EDCAQMD mass daily significance thresholds. Additionally, as described in Section 4.2.6 of the EDH Costco Air Quality Report and **Section 3** of this report, impacts of particulate matter emissions from the proposed Project construction and operation are less than significant. Hence, the proposed Project would not result in a cumulatively considerable net increase in any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard.

²⁸ EDCAQMD. 2005. Rule 223-1 Fugitive Dust – Construction, Bulk Material Handling, Blasting, Other Earthmoving Activities and Carryout and Trackout Prevention. Available at: <https://ww2.arb.ca.gov/sites/default/files/classic/technology-clearinghouse/rules/RuleID809.pdf>. Accessed: October 2025.

²⁹ EDCAQMD. 2005. Rule 223-2 Fugitive Dust – Asbestos Hazard Mitigation. Available at: <https://ww2.arb.ca.gov/sites/default/files/classic/technology-clearinghouse/rules/RuleID810.pdf>. Accessed: October 2025.

³⁰ El Dorado County. Asbestos Review Areas, Western Slope, County of El Dorado, State of California. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/construction-dust-rules/asbestos-review-map-8-22-18.pdf>. Accessed: October 2025.

³¹ Kleinfelder, 2024. Geotechnical Study, Proposed Costco Fuel Facility, Silva Valley Parkway, El Dorado Hills, California, CW# 18-0487. December 2024.

4.3 Threshold AQ-3: Would the Project expose sensitive receptors to substantial pollutant concentrations?

4.3.1 CO Hotspots

As discussed in Section 6.2 of the AQ Technical Report, according to the PCAPCD guidance, the CO emissions from a proposed Project's operations would be less than significant if CO emissions from vehicle operations are less than 550 pounds per day (lbs/day). As shown in **Table 3-7**, the CO emissions from mobile sources associated with the proposed Project are less than 550 lbs/day. Thus, the increase in CO emissions from the project-related increased traffic volumes at affected intersections and the on-site gasoline fueling station are less than significant and the proposed Project would not expose sensitive receptors to substantial concentrations of localized CO.

4.3.2 Health Risk Thresholds

As described in Section 7.3.1 of the EDH Costco Project Air Quality Technical Report, the cancer risk, non-cancer chronic and acute HIs at the maximally impacted residential and other sensitive receptors associated with the mitigated toxic air contaminant (TAC) emissions from the EDH Costco Project construction and operation are below EDCAQMD significance thresholds. Specifically, the maximum incremental cancer risk, non-cancer chronic and acute HIs for the Costco EDH Project are estimated to be 4.13 in a million, 0.02, and 0.50 respectively (Refer to Table 5-5 in the EDH Costco Project Air Quality Technical Report).

The primary sources of TAC emissions associated with the North Site Remainder Parcel are diesel particulate matter (DPM) emissions from construction equipment, construction trucks, and operational trucks. The construction equipment, construction truck activity, and operational truck activity associated with the development of the North Site Remainder Parcel are generally expected to be similar/lower than that of the EDH Costco Project as maximum square footage of the of commercial/retail land uses that would be developed on the North Site Remainder Area (138,000 square feet) is lower than the square footage of the warehouse that would be developed by the EDH Costco Project (165,000 square foot). Hence, the DPM emissions from the North Site Remainder Parcel and its associated cancer and chronic impacts will be similar or less than that associated with the EDH Costco Project. As a result, the maximum cancer risk and chronic HI associated with the proposed Project (North Site Remainder Area and EDH Costco Project) are expected to be less than 8.5 in a million and 0.05 respectively which are below EDCAQMD significance thresholds.

Additionally, since the North Site Remainder Parcel is expected to be developed as general retail land uses, we do not expect it to be a significant source of TACs that have acute impacts. Therefore, the acute HI for the proposed Project (North Site Remainder Area and EDH Costco Project) is expected to be similar to that of the EDH Costco Project which is below EDCAQMD significance threshold.

Therefore, the Project is not expected to expose sensitive receptors to substantial TAC concentrations.

4.4 Threshold AQ-4: Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

According to the EDCAQMD CEQA Guide,³² common types of facilities known to produce odors include wastewater treatment plants, landfills and composting facilities, petroleum refineries, manufacturing plants such as asphalt batch plants and chemical/fiberglass manufacturing, painting and coating operations, food processing plants, rendering plants, and coffee roasters. The proposed Project would not include any of these land uses that have been identified by the EDCAQMD as being associated with odor generation and thus would not result in odors adversely affecting a substantial number of people. In addition, the proposed Project does not propose to locate any sensitive receptors near an existing source of objectional odors.

4.4.1 Construction Odors

Construction activities associated with potential odor include equipment exhaust (i.e., from off-road construction equipment), paving, and architectural coating. There are no unusual Project characteristics or construction processes that would require the use of equipment that would be more fuel intensive than is used for comparable construction activities, nor equipment that would not conform to current emission standards. It is expected that these impacts would be short-term in duration and typical of comparable activities, therefore the impacts would not adversely affect a substantial number of people and would be less than significant.

4.4.2 Operational Odors

As discussed above, the proposed Project is a commercial and retail development and does not propose any odor-generating facilities identified by the EDCAQMD. However, the proposed Project does include a gasoline fueling station. During the operation of the Project, VOCs released at the gasoline station due to refueling, spillage, and hose permeation would be controlled to minimize odors (i.e., nozzles equipped with Phase II Enhanced Vapor Recovery systems). Therefore, odor impact from the gasoline fueling station would not affect a substantial number of people and would be less than significant.

There may be some potential for other small-scale, localized odor issues to emerge around some of the proposed Project sources, such as solid waste collection, wastewater or stormwater collection/conveyance, or food preparation. However, these localized short-term odors would not affect a substantial number of people. Therefore, the proposed Project's operational odor impact is considered less than significant.

³² EDCAQMD. 2002. Guide to Air Quality Assessment. February. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

5. PROGRAM-LEVEL GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS

This section discusses the assessment of the proposed Project's GHG emissions against the CEQA significance thresholds outlined in **Section 2**.

5.1 Threshold GHG-1: Would the Project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

As noted in **Section 2.1**, in the absence of a quantitative GHG threshold from El Dorado County and EDCAQMD, this Technical Report assesses significance of the proposed Project's GHG impacts for Threshold 1 against the PCAPCD's GHG significance thresholds.

Total GHG emissions for each year of the proposed Project construction are summarized in Table 4-13 of the EDH Costco Project Greenhouse Gas Technical Report and **Table 3-5** of this report. As shown in these tables, the annual GHG emissions associated with the construction of the proposed Project (1,708 MT CO₂e in 2026, 1,866 MT CO₂e in 2027, and 197 MT CO₂e in 2028) are less than the PCAPCD's bright-line GHG significance threshold of 10,000 MT CO₂e/year for construction.

The proposed Project's annual operational GHG emissions were estimated to be 3,954 MT CO₂e per year (**Table 3-8**). These emissions are between PCAPCD's de minimis GHG emissions level (1,100 MT CO₂e/yr) and bright-line GHG significance threshold (10,000 MT CO₂e/yr) for project operation. Therefore, to evaluate the GHG impacts we estimated the proposed Project's efficiency metric in accordance with the PCAPCD's Air Quality Handbook.³³ This calculated efficiency metric (13.04 MT CO₂e per 1,000 square feet) shown in **Table 3-8**, is less than the lower of the two applicable efficiency matrix thresholds in PCAPCD's Air Quality Handbook for the operational phase of land use projects:

1. 26.5 MT CO₂e/1,000 square feet for a project in an urban land use setting; and
2. 27.3 MT CO₂e/1,000 square feet for a project in rural land use setting.

Therefore, the GHG emissions associated with the construction and operation of the proposed Project would not have a significant impact on the environment.

5.2 Threshold GHG-2: Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

As noted in **Section 2.1**, this Technical Report assesses the significance of the proposed Project's GHG impacts for Threshold 2 based on whether it would conflict with the 2022 Scoping Plan Update,³⁴ SACOG's 2020 MTP/SCS,³⁵ and El Dorado County RTP 2020-2040.³⁶

³³ PCAPCD. 2017. 2017 CEQA Handbook Chapters. Available at: <https://www.placerair.org/1801/CEQA-Handbook>. Accessed: October 2025.

³⁴ CARB. 2022. 2022 CARB Scoping Plan Update - Appendix D, Local Actions. Available at: <https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf>. Accessed: October 2025.

³⁵ SACOG. 2020. 2020 SACOG MTP/SCS. Available at: <https://www.sacog.org/home/showpublisheddocument/76/638212804736270000>. Accessed: October 2025.

³⁶ El Dorado County Transportation Commission. 2020. El Dorado County Regional Transportation Plan 2020-2040. November 5. Available at: <https://www.edctc.org/files/2859e4e3f/RTP+2040.pdf>. Accessed: October 2025.

5.2.1 2022 Scoping Plan Update

The 2022 Scoping Plan Update has a table of priority GHG reduction strategies that can be utilized by local governments. The three main priority areas addressed in this table are “Transportation Electrification”, “vehicle miles travelled (VMT) Reduction”, and “Building Decarbonization”.³⁷ These measures represent the core strategies that local jurisdictions in California can implement to reduce GHGs in alignment with State goals.

The proposed Project would not conflict with the implementation of the 2022 Scoping Plan Update and Statewide Emission Reduction Targets and includes the several features and mitigation measures that support the three main priority areas for GHG reduction as described below.

While project-level design features and details are not available for the potential developments in the North Site Remainder Area at the time of preparation of this program-level analysis, the North Site Remainder Area would introduce retail/commercial land uses that are consistent with the zoning designation in a highway hub. Hence, the proposed Project, i.e., the North Site Remainder Area and the Costco EDH Project, would create new employment opportunities. Additionally, the Project site is an infill development located near an El Dorado Transit bus route (50 Express) and bus stop (El Dorado Transit Park & Ride), therefore placing jobs that are accessible via public transit. The El Dorado bus route connects to the larger Sacramento Metropolitan transit network and encourages use of local transit and rail to commute to the proposed Project. Furthermore, the proposed Project is located adjacent to homes, therefore the proposed Project would provide retail and jobs near a housing-rich area served by El Dorado Transit. Lastly, the proposed Project will implement **Mitigation Measure 3.14-2c: Develop a Transportation Demand Management (TDM) Program and Implement VMT Reduction Measures for Subsequent Developments in the North Site Remainder Area** which requires each project applicant of future proposed projects located within the North Site Remainder Area to either demonstrate through a technical analysis that its project would not exceed County VMT thresholds or implement VMT-reducing infrastructure and/or strategies within the commercial facility to mitigate those impacts. If VMT thresholds are exceeded, the applicant shall prepare and submit a TDM Plan to the County for approval, which shall include a series of measures to reduce project-related VMT. Measures may include strategies such as ridesharing initiatives (e.g., carpooling), subsidizing employee use of public transit, and promoting bicycling, walking, and the use of public transit. As noted in Section 5.2.1 of the GHG Technical Report, the EDH Costco Project will meet the Voluntary Tier 1 Electric Vehicle Charging Standards as defined in the 2025 California Green Building Standards Code³⁸ by installing ten direct current fast chargers that provide a total power of 1,800 kW. Additionally, these chargers will be powered by 100% renewable electrical power supplied by Pacific Gas & Electric (PG&E), as Costco has a Clean Energy Contract with PG&E. Furthermore, the Remainder Area will be required to meet the Mandatory Electric Vehicle Charging Standards as defined in the California Green Building Standards Code.

³⁷ CARB. 2022. Final 2022 Scoping Plan Update and Appendices. December. Available at: <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents>. Accessed: October 2025.

³⁸ 2025 California Green Building Standards Code, Title 24, Part 11. Available online at: <https://codes.iccsafe.org/content/CAGBC2025P1>. Accessed: October 2025.

Additionally, as noted in Section 5.2.1 of the GHG Technical Report, the EDH Costco Project will incorporate several sustainability and energy efficiency measures including green building practices as required by the 2025 California Green Building Standards Code.³⁹ Refer to Section 1.2 of the GHG Technical Report for a detailed listing of these measures. Notably, the EDH Costco Project operations will be powered 100% renewable electrical power supplied by PG&E, as Costco has a Clean Energy Contract with PG&E. Furthermore, the Remainder Area will be required to meet the California Green Building Standards Code, which includes a number of energy-saving requirements for new developments.

Based on the proposed Project elements described above, the Project would not interfere with the implementation of the 2022 Scoping Plan Update and would include elements that support the goals of the plan.

5.2.2 SACOG 2020 MTP/SCS

The proposed Project would not conflict with the State's GHG reduction goals and strategies as discussed in the SACOG's 2020 MTP/SCS,⁴⁰ which fall into four priority policy areas:

1. Build vibrant places for today's and tomorrow's residents;
2. Foster the next generation of mobility solutions;
3. Modernize the way we pay for transportation infrastructure; and
4. Build and maintain a safe, reliable, and multimodal transportation system.

The proposed Project would not conflict with the implementation of the SACOG's 2020 MTP/SCS and has several elements that are expected to support the main priority policy in SACOG's 2020 MTP/SCS. As noted in **Section 5.2.1**, the Project is an infill development that would create new employment opportunities and is located near an El Dorado Transit bus route (50 Express) and bus stop (El Dorado Transit Park & Ride), therefore placing jobs that are accessible via public transit. The El Dorado bus route connects to the larger Sacramento Metropolitan transit network and encourages use of local transit and rail to commute to the Project. Furthermore, the Project is located adjacent to homes, therefore the Project would provide retail and jobs near a housing-rich area served by El Dorado Transit.

Moreover, as noted in **Section 5.2.1**, the proposed Project will implement **Mitigation Measure 3.14-2c: Develop a TDM Program and Implement VMT Reduction Measures for Subsequent Developments in the North Site Remainder Area** which requires each project applicant of future proposed projects located within the North Site Remainder Area to either demonstrate through a technical analysis that its project would not exceed County VMT thresholds or implement VMT-reducing infrastructure and/or strategies within the commercial facility to mitigate those impacts. If VMT thresholds are exceeded, the applicant shall prepare and submit a TDM Plan to the County for approval, which shall include a series of measures to reduce project-related VMT. Measures may include strategies such as ridesharing initiatives (e.g., carpooling), subsidizing employee use of public transit, and promoting bicycling, walking, and the use of public transit.

³⁹ 2025 California Green Building Standards Code, Title 24, Part 11. Available online at: <https://codes.iccsafe.org/content/CAGBC2025P1>. Accessed: October 2025.

⁴⁰ SACOG. 2020. Metropolitan Transportation Plan/Sustainable Communities Strategy. Available at: <https://www.sacog.org/home/showpublisheddocument/76/638212804736270000>. Accessed: October 2025.

Additionally, as noted in Section 5.2.2 of the GHG Technical Report, the EDH Costco Project would implement pedestrian network improvements as part of **Mitigation Measure 3.14-2b**, and would implement several off-site transportation improvements in coordination with the County to address the existing and future needs of the region in the immediate vicinity of the Project site.

Based on the proposed Project elements described above, the Project would not interfere with the implementation of the SACOG's 2020 MTP/SCS and would include elements that support the goals of the plan.

5.2.3 El Dorado County RTP 2020-2040

The proposed Project would not conflict with the El Dorado County 2020-2040 RTP,⁴¹ which includes the following main goals: to improve highways, streets, and regional/inter-regional roadways, public transit, aviation, freight movement, non-motorized transportation, transportation systems management, integrated land use, air quality, and transportation planning, and funding.

The Project supports the objectives of the El Dorado County Regional Transportation Plan by providing sidewalks, bike lanes, and pedestrian connections. As noted in **Section 5.2.1**, the Project is an infill development that would create new employment opportunities and is located near an El Dorado Transit bus route (50 Express) and bus stop (El Dorado Transit Park & Ride), thereby creating jobs that are accessible via public transit. The El Dorado bus route connects to the larger Sacramento Metropolitan transit network and encourages use of local transit and rail to commute to the Project. Furthermore, the Project is located adjacent to homes, therefore the Project would provide retail and jobs near a housing-rich area served by El Dorado Transit.

Additionally, as noted in **Section 5.2.1**, the proposed Project will implement **Mitigation Measure 3.14-2c: Develop a TDM Program and Implement VMT Reduction Measures for Subsequent Developments in the North Site Remainder Area** which requires each project applicant of future proposed projects located within the North Site Remainder Area to either demonstrate through a technical analysis that its project would not exceed County VMT thresholds or implement VMT-reducing infrastructure and/or strategies within the commercial facility to mitigate those impacts. If VMT thresholds are exceeded, the applicant shall prepare and submit a TDM Plan to the County for approval, which shall include a series of measures to reduce project-related VMT. Measures may include strategies such as ridesharing initiatives (e.g., carpooling), subsidizing employee use of public transit, and promoting bicycling, walking, and the use of public transit.

Further, as described in Section 5.2.2 of the GHG Technical Report, the Project would include pedestrian network improvements as part of **Mitigation Measure 3.14-2b**, and would implement several off-site transportation improvements in coordination with the County to address the existing and future needs of the region in the immediate vicinity of the Project site.

Based on the proposed Project elements described above, the proposed Project would not interfere with the implementation of the El Dorado County 2020-2040 RTP and would include elements that support the goals of the plan.

⁴¹ El Dorado County Transportation Commission. 2020. El Dorado County Regional Transportation Plan 2020-2040. November 5. Available at: <https://www.edctc.org/files/2859e4e3f/RTP+2040.pdf>. Accessed: October 2025.

5.3 Summary

As discussed in **Section 5.1**, the proposed Project is expected to result in GHG emissions that are below PCAPCD GHG thresholds for operation and construction. Additionally, as described in **Section 5.2**, the proposed Project would not conflict with the 2022 Scoping Plan Update, SACOG's 2020 MTP/SCS, or the El Dorado County RTP 2020-2040. Therefore, the proposed Project's GHG emissions will be less than significant in the context of Threshold 1 and Threshold 2. Based on the analysis above, the proposed Project's GHG emissions are not cumulatively considerable, and the proposed Project is less than significant for cumulative GHG impacts.

6. PROGRAM-LEVEL ENERGY IMPACT ANALYSIS

This section discusses the assessment of the Project's energy demand against the CEQA significance thresholds outlined in **Section 2**.

6.1 **Threshold ENE-1: Would the Project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?**

6.1.1 **Energy Requirements and Energy Use Efficiencies**

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate the energy intensiveness of materials may be discussed.

Construction of the proposed Project (North Site Remainder Area and the EDH Costco Project) would result in one-time energy consumption in the form of gasoline and diesel, shown in **Table 3-6**. There are no unusual characteristics that would require the use of equipment that would be more energy intensive than is used for comparable activities, or equipment that would not conform to the current emissions standards (and related fuel efficiencies).

The operational energy use of the proposed Project is summarized in **Table 3-7**. As expected, the program-level energy use would be greater than the energy use from the EDH Costco Project. However, neither the EDH Costco Project nor the Remainder Area Development would have unusual project characteristics that would require electricity, gasoline, natural gas, and diesel consumption that would be more energy intensive than is used for comparable activities, or equipment that would not conform to current emissions standards (and related fuel efficiencies). For example, CARB has adopted an approach to passenger vehicles that combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of standards. The approach also includes efforts to support and accelerate the numbers of plug-in hybrids and zero-emissions vehicles in California. As such, operation of the proposed Project is expected to use decreasing amounts of fuel over time, due to advances in fuel economy.

6.1.2 **Local and Regional Energy Supplies**

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The effects of the project on local and regional energy supplies and on requirements for additional capacity.

The off-road construction equipment used during Project construction are primarily diesel-fueled. (see **Table D-1** for additional details on construction of the North Site Remainder Area and Table 4-2 of the EDH Costco Project Energy Technical Report for construction of the EDH Costco Project). Additionally, the fleet mix for construction mobile sources is expected to be gasoline-powered and diesel-powered, based on the CalEEMod default fleet mix for worker, vendor, and hauling vehicles (see **Table D-2** for additional

details on the construction of the North Site Remainder Area and Table 4-4 of the EDH Costco Project Energy Technical Report for construction of the EDH Costco Project). Hence, the proposed Project is not expected to use any natural gas during construction.

As shown in **Table 3-6**, relative to annual countywide fuel usage projections, the proposed Project construction would use up to 0.02% of gasoline, 1.23% of diesel, and 0.000004% of electricity in the year when the most construction would occur (2027). Relative to annual statewide fuel usage projections, the proposed Project construction would use up to 0.00010% of gasoline, 0.00405% of diesel, and 0.00000002% of electricity in the year when the most construction would occur (2027). Because construction of the proposed Project is expected to occur in three years, fuel use during construction would also be temporary and negligible.

Table 3-9 summarizes the proposed Project's operational energy use compared to countywide and statewide fuel usage projections. The estimated electricity usage for the proposed Project operations are anticipated to be approximately 0.57% of the projected countywide demand in 2028, and 0.00272% of the statewide energy demand. The natural gas usage of the proposed Project operations are estimated to be 0.08% of the total countywide natural gas consumption and 0.00024% of the total statewide natural gas consumption. The proposed Project's anticipated gasoline usage is anticipated to be 0.68% of the countywide consumption and 0.00323% of the statewide consumption. As far as the proposed Project's diesel consumption goes, it is estimated to be 1.39% of the projected countywide consumption and 0.0045% of the statewide consumption. Based on these relative percentages, the proposed Project's operational energy usage would not have a substantial impact on the local or regional energy supplies or capacity.

6.1.3 Peak and Base Period Demands

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The effects of the project on peak and base period demands for electricity and other forms of energy.

The proposed Project construction would only include minor pieces of electric-powered equipment and hence would not impact the peak and base period demands for electricity.

The proposed Project operation will not have a substantial impact on the peak and base period demands for electricity or other forms of energy. Further details and reasoning on the peak demand are described below.

In 2023, California's peak grid demand was 44,534 megawatts (MW).⁴² PG&E recorded a peak demand of 19,995 MW in 2023.⁴³ In comparison, the Project's maximum demand is

⁴² California ISO. California ISO Peak Load History 1998 through 2024. Available at: <https://www.caiso.com/documents/californiaisopeakloadhistory.pdf>. Accessed: October 2025.

⁴³ California Energy Commission. 2023. Electricity and Gas Demand Forecast. Available at: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=253660&DocumentContentId=88907>. Accessed: October 2025.

expected to be approximately 1.9 MW in 2028,⁴⁴ Therefore, the proposed Project's operations will have a relatively negligible effect on statewide and PG&E peak demands.

6.1.4 Existing Energy Standards

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The degree to which the project complies with existing energy standards.

The proposed Project construction requires use of on-road trucks for soil hauling and deliveries, and off-road equipment such as excavators, tractors/loaders/backhoes, forklifts, and graders. The construction activities would comply with the five-minute idling limit in the Commercial Motor Vehicle Idling Regulation⁴⁵ and the Off-Road Regulation.⁴⁶ Additionally, on-road trucks used during Project construction would be compliant with the requirements of the Tractor-Trailer Greenhouse Gas Regulation.⁴⁷

The proposed Project's anticipated operational energy use is summarized in **Table 3-9**. There are no unusual project characteristics that would require the use of gasoline, diesel, natural gas, or electricity that would be more energy intensive than is used for comparable activities, equipment, or vehicles that would not conform to current emissions standards (and related fuel efficiencies). Additionally, as described in Section 5.1.4.2 of the EDH Costco Project Energy Technical Report, the proposed Project would meet or exceed the Title 24 energy efficiency standards in effect at the time of building permit application. Any passenger vehicles and trucks trips generated by the proposed Project would comply with existing and new state-wide vehicle efficiency regulations discussed further in **Section 6.1.6**. Furthermore, the proposed delivery trucks accessing the site would comply with the State's Commercial Motor Vehicle Idling Regulation, similar to the construction vehicles discussed above.

Therefore, the proposed Project will comply with all applicable energy standards and its energy impacts are less than significant.

6.1.5 Energy Resources

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The effects of the project on energy resources.

As discussed in **Sections 6.1.2** and **6.1.3**, the proposed Project's use of energy will not have a substantial effect on statewide or regional energy resources. Hence, the proposed Project will not significantly impact energy resources, and its energy impacts are less than significant.

⁴⁴ This is a conservative estimate since it was derived by dividing the total electricity energy required for the proposed Project operation by the annual operating hours for the proposed Costco warehouse, though some sources of electricity would operate 24 hours per day for every day of the year.

⁴⁵ 13 CCR 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Available at: <https://www.law.cornell.edu/regulations/california/13-CCR-2485>. Accessed: October 2025.

⁴⁶ CARB. Frequently Asked Questions: Regulation for In-Use Off-Road Diesel-Fueled Fleets. Available at: <https://ww2.arb.ca.gov/sites/default/files/classic/msprog/ordiesel/faq/idlepolicyfaq.pdf>. Accessed: October 2025.

⁴⁷ CARB. Tractor-Trailer Greenhouse Gas Regulation. Available here: <https://ww2.arb.ca.gov/our-work/programs/ttghg-regulation/regulatory-and-guidance-documents>. Accessed: October 2025.

6.1.6 Transportation Energy Use

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

Conventional gasoline, diesel, and natural gas vehicles consume gasoline, diesel, or natural gas, whereas electric vehicles (EVs) consume electricity that can be sourced by fossil fuels or renewables. EVs, including battery-electric vehicles and plug-in hybrid electric vehicles, comprise a growing fraction of the passenger vehicles on the roads in California. EV adoption is expected to increase over the upcoming decades due in part to improvements in battery technology and public initiatives and goals. This increase in EV adoption will decrease the fuel requirements due to transportation. New statewide regulations have been instated which will reduce emissions and fuel requirements from cars and trucks. Gasoline, diesel, and natural gas usage for the mobile sources associated with the proposed Project operation are expected to decrease over time as fleets become more fuel-efficient and switch to more electric-powered vehicles. Overall, the proposed Project would not result in wasteful, inefficient, or unnecessary consumption of transportation energy.

6.1.7 Summary

Based on the above analysis of each of the environmental impact factors identified in CEQA Guidelines Appendix F, the potential for the proposed Project to result in wasteful, inefficient, or unnecessary consumption of fuel or energy, and conversely to fail to incorporate energy efficiency measures into equipment use, transportation or other project features is less than significant.

6.2 Threshold ENE-2: Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

The proposed Project would comply with any applicable local and state plans, regulations, and policies for renewable energy or energy efficiency to the extent required by law. However, because project-level design features and details are not available for the potential developments in the North Site Remainder Area at the time of preparation of this program-level analysis, specific energy efficiency features for the Remainder Area Development will be described in any future applications filed with the County and the associated project-level review of potential environmental impacts under CEQA.

Furthermore, as show in Appendix A of the EDH Costco Project Energy Technical Report, the EDH Costco Project will commit to specific energy efficiency and renewable energy features, including but not limited to, meeting the Voluntary Tier 1 Electric Vehicle Charging Standards as defined in the 2025 California Green Building Standards Code,⁴⁸ installation of efficient irrigation systems and high-efficiency restroom fixtures, use of LED lamps, and use of building surface materials with greater solar reflectivity. Therefore, considered as a whole, the proposed Project would not conflict with or obstruct a state or local Plan for renewable energy or energy efficiency.

⁴⁸ 2025 California Green Building Standards Code, Title 24, Part 11. Available online at: <https://codes.iccsafe.org/content/CAGBC2025P1>. Accessed: October 2025.

TABLES

Table 3-1. Unmitigated Average Daily CAP Emissions for Construction of North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

North Site Remainder Area Construction Time Period	ROG Emissions ¹ (lbs/day)	NO_x Emissions ¹ (lbs/day)	CO Emissions ¹ (lbs/day)	SO_x Emissions ^{1,2} (lbs/day)	PM₁₀ Emissions ¹ (lbs/day)	PM_{2.5} Emissions ¹ (lbs/day)
First Quarter	2.4	45	24	0.24	13	3.4
Second Quarter	1.2	11	15	0.028	2.1	0.58
Third Quarter	1.2	10	15	0.028	2.1	0.56
Fourth Quarter	21	7.6	12	0.020	1.5	0.40
EDCAQMD Mass Daily Significance Thresholds ³	82	82	-	-	-	-
Do Emissions Exceed Threshold for any quarter of Construction?	NO	NO	-	-	-	-

Notes:

¹ Obtained from **Table C-1**. Average daily emissions per quarter calculated as the total construction emissions, which include construction of the regional shopping center and parking lot, divided by the number of construction days in each quarter. Project construction emissions assume watering control consistent with EDCAQMD Rule 223-1.

² For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

³ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CAP - Criteria Air Pollutant

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

lb - pound

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxideSO_x - sulfur oxide compounds

Table 3-2. Unmitigated Combined Average Daily CAP Emissions for Construction of North Site Remainder Area and Operation of Costco EDH Project

El Dorado Hills Costco Project

El Dorado Hills, California

North Site Remainder Area Construction Time Period	ROG Emissions ¹ (lbs/day)	NO _x Emissions ¹ (lbs/day)	CO Emissions ¹ (lbs/day)	SO _x Emissions ^{1,2} (lbs/day)	PM ₁₀ Emissions ¹ (lbs/day)	PM _{2.5} Emissions ¹ (lbs/day)
First Quarter	68.9	79.3	205.9	0.5	49.3	10.4
Second Quarter	67.7	44.8	196.8	0.3	38.8	7.5
Third Quarter	67.7	44.5	196.5	0.3	38.8	7.5
Fourth Quarter	87.3	41.8	193.2	0.3	38.1	7.4
EDCAQMD Mass Daily Significance Thresholds ³	82	82	-	-	-	-
Do Emissions Exceed Threshold for any quarter of Construction?	YES	NO	-	-	-	-

Notes:

¹ Estimated as a sum of the average daily construction emissions for the North Site Remainder Area in **Table 3-1** and the maximum daily operational emissions for the Costco EDH Project in Table 4-16 of the EDH Costco Project Air Quality Technical Report.

² For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

³ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CAP - Criteria Air Pollutant

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

EDH - El Dorado Hills

lb - pound

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

Table 3-3. Mitigated Average Daily CAP Emissions for Construction of North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

North Site Remainder Area Construction Time Period	ROG Emissions¹ (lbs/day)	NO_x Emissions¹ (lbs/day)	CO Emissions¹ (lbs/day)	SO_x Emissions^{1,2} (lbs/day)	PM₁₀ Emissions¹ (lbs/day)	PM_{2.5} Emissions¹ (lbs/day)
First Quarter	1.4	48	28	0.24	12	3.0
Second Quarter	0.81	13	17	0.028	1.9	0.38
Third Quarter	0.79	13	17	0.028	1.9	0.38
Fourth Quarter	14	10	13	0.020	1.3	0.27
EDCAQMD Mass Daily Significance Thresholds³	82	82	-	-	-	-
Do Emissions Exceed Threshold for any quarter of Construction?	NO	NO	-	-	-	-

Notes:

¹ Obtained from **Table C-2**. Average daily emissions per quarter calculated as the total construction emissions, which include construction of the regional shopping center and parking lot, divided by the number of construction days in each quarter. Project construction emissions assume watering control consistent with EDCAQMD Rule 223-1.

² For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

³ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CAP - Criteria Air Pollutant

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

lb - pound

NO_x - nitrogen oxide compoundsPM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxideSO_x - sulfur oxide compounds

Table 3-4. Mitigated Combined Average Daily CAP Emissions for Construction of North Site Remainder Area and Operation of Costco EDH Project

El Dorado Hills Costco Project

El Dorado Hills, California

North Site Remainder Area Construction Time Period	ROG Emissions ¹ (lbs/day)	NO _x Emissions ¹ (lbs/day)	CO Emissions ¹ (lbs/day)	SO _x Emissions ^{1,2} (lbs/day)	PM ₁₀ Emissions ¹ (lbs/day)	PM _{2.5} Emissions ¹ (lbs/day)
First Quarter	67.9	81.8	209.7	0.5	48.8	9.9
Second Quarter	67.3	47.6	198.9	0.3	38.6	7.3
Third Quarter	67.3	47.5	198.5	0.3	38.6	7.3
Fourth Quarter	80.9	44.1	194.6	0.3	38.0	7.2
EDCAQMD Mass Daily Significance Thresholds ³	82	82	-	-	-	-
Do Emissions Exceed Threshold for any quarter of Construction?	NO	NO	-	-	-	-

Notes:

¹ Estimated as a sum of the average daily construction emissions for the North Site Remainder Area in **Table 3-3** and the maximum daily operational emissions for the Costco EDH Project in Table 4-16 of the EDH Costco Project Air Quality Technical Report.

² For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

³ Obtained from EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CAP - Criteria Air Pollutant

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

EDH - El Dorado Hills

lb - pound

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

Table 3-5. Summary of Construction Greenhouse Gas Emissions - North Site Remainder Area

El Dorado Hills Costco Project
El Dorado Hills, California

Emissions Category	Emissions ^{1,2,3} (MT CO₂e/yr)
Construction Emissions (2027)	1,232
Construction Emissions (2028)	197
Construction GHG Threshold ⁴	10,000
Do Either Year of Construction Exceed the Threshold?	NO

Notes:

¹ Emissions are presented as CO₂e, which include CO₂, CH₄, and N₂O emissions, weighted by their respective global warming potentials.

² Emissions totals may not add up due to rounding. Emissions shown as zero may be non-zero values; however, they are below a meaningful reporting level for this analysis.

³ Obtained from CalEEMod output file for the North Site Remainder Area Development in **Appendix A**.

⁴ Placer County Thresholds of Significance - Chapter 2. Available at:

<https://www.placerair.org/DocumentCenter/View/2047/Chapter-2-Thresholds-of-Significance-PDF>.

Accessed: October 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODeL

CH₄ - methane

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalents

GHG - greenhouse gas

MT - metric tons

N₂O - nitrous oxide

yr - year

Table 3-6. Energy Resource Summary for Proposed Project Construction

El Dorado Hills Costco Project

El Dorado Hills, California

Energy Resource	Year	Energy Consumption for the North Site Remainder Area Construction ¹	Energy Consumption for the EDH Costco Project Construction ²	Total Energy Consumption for Proposed Project Construction ³ (gallons)	El Dorado County Annual Consumption ^{4,5} (gallons)	Proposed Project Construction Contribution to El Dorado County Annual Consumption (%)	California Annual Consumption ^{4,5} (gallons)	Proposed Project Construction Contribution to California Annual Consumption (%)
Gasoline (gallons/yr)	2026	-	10,851	10,851	65,259,604	0.02%	13,896,130,020	0.00008%
Diesel (gallons/yr)	2026	-	159,850	159,850	14,555,710	1.10%	4,342,164,261	0.00368%
Electricity (kWh/yr)	2026	-	88	88	1,339,206,633	0.00001%	282,782,592,309	0.00000003%
Gasoline (gallons/yr)	2027	4,906	9,121	14,027	64,229,365	0.02%	13,625,442,497	0.00010%
Diesel (gallons/yr)	2027	118,647	56,712	175,359	14,262,073	1.23%	4,330,293,013	0.00405%
Electricity (kWh/yr)	2027	-	59	59	1,339,206,633	0.000004%	282,782,592,309	0.00000002%
Gasoline (gallons/yr)	2028	2,873	-	2,873	63,126,214	0.00%	13,365,596,850	0.00002%
Diesel (gallons/yr)	2028	17,852	-	17,852	13,968,581	0.13%	4,312,144,863	0.00041%

Conversion Factors:

1,000,000 kWh/GWh

Notes:

¹ Estimated as a sum of the fuel consumption of the off-road construction equipment (**Table D-1**) and on-road vehicles (**Table D-2**) used during construction of the North Site Remainder Area.

² Obtained from Table 5-2 in the EDH Costco Energy Technical Report.

³ Estimated as a sum of the energy consumption for construction of the North Site Remainder Area and the EDH Costco Project.

⁴ Fuel consumption data for El Dorado County and the State of California are obtained from EMFAC2021 and OFFROAD2021 for calendar years 2026, 2027, and 2028.

⁵ Electricity consumption data for El Dorado County and the State of California are obtained from <https://www.energy.ca.gov/files/energy-consumption-data-files> for calendar year 2024 as that was the most recent data available. Accessed: October 2025.

Abbreviations:

% - percent

EDH - El Dorado Hills

EMFAC - California Air Resources Board Emissions Factor Model

GWh - gigawatt hour

kWh - kilowatt hour

yr - year

Table 3-7. Maximum Daily Criteria Air Pollutant Emissions for Operations of the Proposed Project

El Dorado Hills Costco Project

El Dorado Hills, California

Proposed Project Land Use	Emission Category ¹	ROG Emissions (lbs/day)	NO_x Emissions (lbs/day)	CO Emissions (lbs/day)	SO_x Emissions ² (lbs/day)	PM₁₀ Emissions (lbs/day)	PM_{2.5} Emissions (lbs/day)
EDH Costco Project	Area ³	4.7	0.1	11.6	0.00	0.02	0.02
EDH Costco Project	Energy ³	0.02	0.4	0.3	0.00	0.03	0.03
EDH Costco Project	Mobile ³	41.7	31	167.5	0.30	36.5	6.8
EDH Costco Project	Stationary Sources ³	0.8	2.3	2.1	0.00	0.12	0.12
EDH Costco Project	Gasoline Dispensing Facility ³	19.3	-	-	-	-	-
North Site Remainder Area	Area ⁴	3.3	0.05	6.0	0.00	0.01	0.01
North Site Remainder Area	Energy ⁴	0.02	0.3	0.3	0.00	0.02	0.02
North Site Remainder Area	Mobile ⁴	11.6	7.1	52.3	0.10	16.8	3.0
Total Daily Emissions (lb/day)		81.4	41.7	240	0.40	53.5	10.0
EDCAQMD Mass Daily Significance Thresholds ⁵		82	82	NA	NA	NA	NA
Exceeds Threshold?		NO	NO	-	-	-	-

Notes:

¹ Emissions totals may not add up due to rounding. Emissions shown as zero may be non-zero values; however, they are below a meaningful reporting level for this analysis.

² For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

³ Obtained from Table 4-16 in the EDH Costco Project Air Quality Technical Report.

⁴ Obtained from the CalEEMod output file for the North Site Remainder Area Development in **Appendix A**.

⁵ EDCAQMD Guide to Air Quality Assessment Determining Significance of Air Quality Impact Under the California Environmental Quality Act. Available at: <https://www.eldoradocounty.ca.gov/files/assets/county/v/1/documents/government/air-quality/guide-to-air-quality-assessment.pdf>. Accessed: October 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODeL

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

EDH - El Dorado Hills

lb - pound

NA - not applicable

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

Table 3-8. Summary of Greenhouse Gas Emissions for Proposed Project Operations

El Dorado Hills Costco Project

El Dorado Hills, California

Proposed Project Land Use	Emissions Category	Emissions ^{1,2}	Unit
EDH Costco Project	Area Sources ³	3.9	MT CO ₂ e/yr
EDH Costco Project	Energy Usage ³	78	MT CO ₂ e/yr
EDH Costco Project	Mobile ³	4,731	MT CO ₂ e/yr
EDH Costco Project	Water ³	17	MT CO ₂ e/yr
EDH Costco Project	Waste Disposed ³	224	MT CO ₂ e/yr
EDH Costco Project	Refrigerant ³	0.13	MT CO ₂ e/yr
EDH Costco Project	Vegetation ³	11	MT CO ₂ e/yr
EDH Costco Project	Generators ³	9.6	MT CO ₂ e/yr
EDH Costco Project	On-Site Electric Vehicle Chargers ³	-2,908	MT CO ₂ e/yr
North Site Remainder Area	Area Sources ⁴	2.0	MT CO ₂ e/yr
North Site Remainder Area	Energy Usage ⁴	122.9	MT CO ₂ e/yr
North Site Remainder Area	Mobile ⁴	1,601	MT CO ₂ e/yr
North Site Remainder Area	Water ⁴	15.1	MT CO ₂ e/yr
North Site Remainder Area	Waste Disposed ⁴	45.2	MT CO ₂ e/yr
North Site Remainder Area	Refrigerant ⁴	0.1	MT CO ₂ e/yr
North Site Remainder Area	Vegetation ⁴	0.0	MT CO ₂ e/yr
Operational Emissions		3,954	MT CO₂e/yr
Calculated Efficiency Metric ⁵		13.04	MT CO₂e/1,000 sqft
Operational GHG Efficiency Metric Threshold ⁶		26.50	MT CO₂e/1,000 sqft
Exceeds Threshold?		NO	-

Notes:

¹ Emissions are presented as CO₂e, which include CO₂, CH₄, and N₂O emissions, weighted by their respective global warming potentials.

² Emissions totals may not add up due to rounding. Emissions shown as zero may be non-zero values; however, they are below a meaningful reporting level for this analysis.

³ Obtained from Table 4-17 in the EDH Costco Project Greenhouse Gas Technical Report.

⁴ Obtained from CalEEMod output file for the North Site Remainder Area Development in **Appendix A**.

⁵ Efficiency metric is calculated as the total operational emissions divided by the sum of the building square footage of the regional shopping center and the building square footage of the EDH Costco Project (303,200 sqft).

⁶ Placer County Thresholds of Significance - Chapter 2. Available at:

<https://www.placerair.org/DocumentCenter/View/2047/Chapter-2-Thresholds-of-Significance-PDF>. Accessed: October 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODEL

CH₄ - methane

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalents

EDH - El Dorado Hills

GHG - greenhouse gas

MT - metric tons

N₂O - nitrous oxide

sqft - square feet

yr - year

Table 3-9. Energy Resource Summary for Proposed Project Operation

El Dorado Hills Costco Project

El Dorado Hills, California

Energy Resource	Energy Consumption for the North Site Remainder Area Operation ¹	Energy Consumption for the EDH Costco Project Operation ²	Total Energy Consumption for Proposed Project Operation ³	El Dorado County Annual Consumption ^{4,5,6}	Proposed Project Operation Contribution to El Dorado County Annual Consumption (%)	California Annual Consumption ^{4,5,6}	Proposed Project Operation Contribution to California Annual Consumption (%)
Electricity (kWh/yr)	1,673,392	6,026,405	7,699,797	1,339,206,633	0.57%	282,782,592,309	0.00272%
Natural Gas (kBtu/yr)	1,192,913	1,423,224	2,616,137	3,196,879,463	0.08%	1,110,086,615,369	0.00024%
Gasoline (gallons/yr)	145,697	285,366	431,064	63,126,214	0.68%	13,365,596,850	0.00323%
Diesel (gallons/yr)	24,867	169,371	194,238	13,968,581	1.39%	4,312,144,863	0.00450%

Conversion Factors:

1,000,000 kWh/GWh

99,976.1 Btu/therm

1,000 Btu/kBtu

Notes:¹ Estimated as a sum of the fuel consumption of Remainder Parcel operational sources listed in **Tables F-1, F-2, and F-5** through **F-9**.² Obtained from Table 5-3 in the EDH Costco Energy Technical Report.³ Estimated as a sum of the energy consumption for operation of the North Site Remainder Area and the EDH Costco Project.⁴ Diesel and gasoline consumption data for El Dorado County and the State of California are obtained from EMFAC2021 and OFFROAD2021 for calendar year 2028.⁵ Electricity consumption data for El Dorado County and the State of California are obtained from <https://www.energy.ca.gov/files/energy-consumption-data-files> for calendar year 2024 as that was the most recent data available. Accessed: October 2025.⁶ Natural gas consumption data for El Dorado County and the State of California are obtained from <https://www.energy.ca.gov/files/energy-consumption-data-files> for calendar year 2024 as that was the most recent data available. Accessed: October 2025.Abbreviations:

% - percent

Btu - British thermal unit

EDH - El Dorado Hills

EMFAC - Emission FACtors model

GWh - gigawatt hour

kBtu - kilo-British thermal unit

kWh - kilowatt hour

yr - year

APPENDIX A
NORTH SITE REMAINDER AREA CALEEMOD MODEL RUN

North Site Remainder Area Custom Report

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 - 2.1. Construction Emissions Compared Against Thresholds
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 - 2.3. Construction Emissions by Year, Mitigated
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
 - 2.6. Operations Emissions by Sector, Mitigated
- 3. Construction Emissions Details
 - 3.1. Site Preparation (2027) - Unmitigated
 - 3.2. Site Preparation (2027) - Mitigated
 - 3.3. Grading (2027) - Unmitigated

3.4. Grading (2027) - Mitigated

3.5. Building Construction (2027) - Unmitigated

3.6. Building Construction (2027) - Mitigated

3.7. Building Construction (2028) - Unmitigated

3.8. Building Construction (2028) - Mitigated

3.9. Paving (2028) - Unmitigated

3.10. Paving (2028) - Mitigated

3.11. Architectural Coating (2028) - Unmitigated

3.12. Architectural Coating (2028) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	North Site Remainder Area
Construction Start Date	5/18/2027
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	9.40
Location	38.659852, -121.056799
County	El Dorado-Mountain County
City	Unincorporated
Air District	El Dorado County AQMD
Air Basin	Mountain Counties
TAZ	406
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Regional Shopping Center	138	1000sqft	3.17	138,000	0.00	—	—	—

Parking Lot	10.6	Acre	10.6	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-6	Use Diesel Particulate Filters
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	103	103	111	37.9	0.66	1.63	30.4	32.1	1.55	6.29	7.83	—	63,577	63,577	0.61	9.01	85.6	66,363
Mit.	70.6	70.6	115	46.0	0.66	0.80	30.4	31.2	0.78	6.29	7.06	—	63,577	63,577	0.61	9.01	85.6	66,363
% Reduced	31%	31%	-4%	-21%	—	51%	—	3%	50%	—	10%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.43	1.22	10.6	15.0	0.03	0.34	1.75	2.09	0.31	0.26	0.58	—	3,516	3,516	0.11	0.14	0.08	3,561
Mit.	0.87	0.80	13.4	17.0	0.03	0.12	1.75	1.88	0.11	0.26	0.38	—	3,516	3,516	0.11	0.14	0.08	3,561
% Reduced	39%	34%	-26%	-13%	—	63%	—	10%	64%	—	35%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	6.17	6.10	15.6	11.7	0.07	0.34	3.58	3.92	0.32	0.76	1.07	—	7,190	7,190	0.11	0.81	3.72	7,439
Mit.	4.24	4.21	17.3	13.4	0.07	0.13	3.58	3.71	0.13	0.76	0.88	—	7,190	7,190	0.11	0.81	3.72	7,439
% Reduced	31%	31%	-11%	-15%	—	61%	—	5%	60%	—	18%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.13	1.11	2.85	2.13	0.01	0.06	0.65	0.71	0.06	0.14	0.20	—	1,190	1,190	0.02	0.13	0.62	1,232
Mit.	0.77	0.77	3.16	2.44	0.01	0.02	0.65	0.68	0.02	0.14	0.16	—	1,190	1,190	0.02	0.13	0.62	1,232
% Reduced	31%	31%	-11%	-15%	—	61%	—	5%	60%	—	18%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.19	4.25	111	37.9	0.66	1.63	30.4	32.1	1.55	6.29	7.83	—	63,577	63,577	0.61	9.01	85.6	66,363
2028	103	103	9.94	15.4	0.03	0.30	1.75	2.06	0.28	0.26	0.54	—	3,538	3,538	0.11	0.14	2.74	3,586
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.43	1.22	10.6	15.0	0.03	0.34	1.75	2.09	0.31	0.26	0.58	—	3,516	3,516	0.11	0.14	0.08	3,561
2028	1.38	1.16	10.0	14.9	0.03	0.30	1.75	2.06	0.28	0.26	0.54	—	3,492	3,492	0.11	0.14	0.07	3,537
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.26	1.06	15.6	11.7	0.07	0.34	3.58	3.92	0.32	0.76	1.07	—	7,190	7,190	0.11	0.81	3.72	7,439
2028	6.17	6.10	3.48	5.24	0.01	0.11	0.57	0.68	0.10	0.09	0.19	—	1,177	1,177	0.04	0.04	0.38	1,192
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.23	0.19	2.85	2.13	0.01	0.06	0.65	0.71	0.06	0.14	0.20	—	1,190	1,190	0.02	0.13	0.62	1,232
2028	1.13	1.11	0.63	0.96	< 0.005	0.02	0.10	0.12	0.02	0.02	0.03	—	195	195	0.01	0.01	0.06	197

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.97	2.56	115	46.0	0.66	0.80	30.4	31.2	0.78	6.29	7.06	—	63,577	63,577	0.61	9.01	85.6	66,363
2028	70.6	70.6	13.2	17.4	0.03	0.12	1.75	1.87	0.11	0.26	0.37	—	3,538	3,538	0.11	0.14	2.74	3,586
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.87	0.80	13.4	17.0	0.03	0.12	1.75	1.88	0.11	0.26	0.38	—	3,516	3,516	0.11	0.14	0.08	3,561
2028	0.85	0.77	13.2	16.9	0.03	0.12	1.75	1.87	0.11	0.26	0.37	—	3,492	3,492	0.11	0.14	0.07	3,537
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.72	0.65	17.3	13.4	0.07	0.13	3.58	3.71	0.13	0.76	0.88	—	7,190	7,190	0.11	0.81	3.72	7,439
2028	4.24	4.21	4.55	5.90	0.01	0.04	0.57	0.61	0.04	0.09	0.12	—	1,177	1,177	0.04	0.04	0.38	1,192
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.13	0.12	3.16	2.44	0.01	0.02	0.65	0.68	0.02	0.14	0.16	—	1,190	1,190	0.02	0.13	0.62	1,232
2028	0.77	0.77	0.83	1.08	< 0.005	0.01	0.10	0.11	0.01	0.02	0.02	—	195	195	0.01	0.01	0.06	197

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.5	14.9	6.54	58.5	0.10	0.14	16.7	16.8	0.13	2.93	3.06	97.7	10,797	10,895	10.6	0.58	30.1	11,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	13.2	12.6	7.46	52.5	0.09	0.13	16.7	16.8	0.12	2.93	3.05	97.7	10,089	10,186	10.7	0.63	1.42	10,644
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.8	13.2	7.16	53.2	0.10	0.13	16.4	16.6	0.12	2.89	3.02	97.7	10,231	10,329	10.6	0.61	13.4	10,791
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.52	2.41	1.31	9.70	0.02	0.02	3.00	3.02	0.02	0.53	0.55	16.2	1,694	1,710	1.76	0.10	2.21	1,787

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	12.1	11.6	6.17	52.3	0.10	0.10	16.7	16.8	0.10	2.93	3.02	—	10,033	10,033	0.57	0.52	29.4	10,230
Area	3.36	3.28	0.05	6.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.7	24.7	< 0.005	< 0.005	—	24.8
Energy	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	732	732	0.18	0.02	—	742
Water	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Waste	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	15.5	14.9	6.54	58.5	0.10	0.14	16.7	16.8	0.13	2.93	3.06	97.7	10,797	10,895	10.6	0.58	30.1	11,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.9	10.3	7.14	52.2	0.09	0.10	16.7	16.8	0.10	2.93	3.02	—	9,349	9,349	0.69	0.57	0.76	9,536
Area	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	732	732	0.18	0.02	—	742
Water	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Waste	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66

Total	13.2	12.6	7.46	52.5	0.09	0.13	16.7	16.8	0.12	2.93	3.05	97.7	10,089	10,186	10.7	0.63	1.42	10,644
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.0	10.4	6.81	49.9	0.09	0.10	16.4	16.5	0.10	2.89	2.99	—	9,480	9,480	0.64	0.55	12.7	9,671
Area	2.82	2.78	0.02	2.96	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.2	12.2	< 0.005	< 0.005	—	12.2
Energy	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	732	732	0.18	0.02	—	742
Water	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Waste	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	13.8	13.2	7.16	53.2	0.10	0.13	16.4	16.6	0.12	2.89	3.02	97.7	10,231	10,329	10.6	0.61	13.4	10,791
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.00	1.90	1.24	9.11	0.02	0.02	3.00	3.02	0.02	0.53	0.55	—	1,569	1,569	0.11	0.09	2.10	1,601
Area	0.51	0.51	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.02
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	121	121	0.03	< 0.005	—	123
Water	—	—	—	—	—	—	—	—	—	—	—	3.24	1.16	4.40	0.33	0.01	—	15.1
Waste	—	—	—	—	—	—	—	—	—	—	—	12.9	0.00	12.9	1.29	0.00	—	45.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	2.52	2.41	1.31	9.70	0.02	0.02	3.00	3.02	0.02	0.53	0.55	16.2	1,694	1,710	1.76	0.10	2.21	1,787

2.6. Operations Emissions by Sector, Mitigated

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	12.1	11.6	6.17	52.3	0.10	0.10	16.7	16.8	0.10	2.93	3.02	—	10,033	10,033	0.57	0.52	29.4	10,230
Area	3.36	3.28	0.05	6.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.7	24.7	< 0.005	< 0.005	—	24.8
Energy	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	732	732	0.18	0.02	—	742
Water	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2

Waste	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	15.5	14.9	6.54	58.5	0.10	0.14	16.7	16.8	0.13	2.93	3.06	97.7	10,797	10,895	10.6	0.58	30.1	11,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.9	10.3	7.14	52.2	0.09	0.10	16.7	16.8	0.10	2.93	3.02	—	9,349	9,349	0.69	0.57	0.76	9,536
Area	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	732	732	0.18	0.02	—	742
Water	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Waste	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	13.2	12.6	7.46	52.5	0.09	0.13	16.7	16.8	0.12	2.93	3.05	97.7	10,089	10,186	10.7	0.63	1.42	10,644
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.0	10.4	6.81	49.9	0.09	0.10	16.4	16.5	0.10	2.89	2.99	—	9,480	9,480	0.64	0.55	12.7	9,671
Area	2.82	2.78	0.02	2.96	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	12.2	12.2	< 0.005	< 0.005	—	12.2
Energy	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	732	732	0.18	0.02	—	742
Water	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Waste	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	13.8	13.2	7.16	53.2	0.10	0.13	16.4	16.6	0.12	2.89	3.02	97.7	10,231	10,329	10.6	0.61	13.4	10,791
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.00	1.90	1.24	9.11	0.02	0.02	3.00	3.02	0.02	0.53	0.55	—	1,569	1,569	0.11	0.09	2.10	1,601
Area	0.51	0.51	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.02
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	121	121	0.03	< 0.005	—	123
Water	—	—	—	—	—	—	—	—	—	—	—	3.24	1.16	4.40	0.33	0.01	—	15.1
Waste	—	—	—	—	—	—	—	—	—	—	—	12.9	0.00	12.9	1.29	0.00	—	45.2
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

Total	2.52	2.41	1.31	9.70	0.02	0.02	3.00	3.02	0.02	0.53	0.55	16.2	1,694	1,710	1.76	0.10	2.21	1,787

3. Construction Emissions Details

3.1. Site Preparation (2027) - 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	3.63	3.05	28.0	28.3	0.05	1.17	—	1.17	1.08	—	1.08	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.77	0.77	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.14	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.05	0.97	0.00	0.00	0.54	0.54	0.00	0.08	0.08	—	189	189	< 0.005	0.01	0.63	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	0.01	4.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2027) - Mitigated

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	0.90	0.90	24.0	28.3	0.05	0.14	—	0.14	0.13	—	0.13	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.66	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	< 0.005	< 0.005	0.12	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.05	0.97	0.00	0.00	0.54	0.54	0.00	0.08	0.08	—	189	189	< 0.005	0.01	0.63	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	0.01	4.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2027) - 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	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.71	3.71	—	1.44	1.44	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.10	2.24	0.01	0.09	—	0.09	0.08	—	0.08	—	542	542	0.02	< 0.005	—	544
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.41	< 0.005	0.02	—	0.02	0.01	—	0.01	—	89.8	89.8	< 0.005	< 0.005	—	90.1

Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.10	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	217	217	< 0.005	0.01	0.72	220
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.59	1.22	85.0	9.51	0.60	0.59	26.1	26.7	0.59	4.75	5.34	—	56,762	56,762	0.34	8.95	84.9	59,523
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	16.4	16.4	< 0.005	< 0.005	0.03	16.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.13	0.10	7.33	0.79	0.05	0.05	2.11	2.16	0.05	0.39	0.43	—	4,665	4,665	0.03	0.74	3.01	4,888
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.02	1.34	0.14	0.01	0.01	0.39	0.39	0.01	0.07	0.08	—	772	772	< 0.005	0.12	0.50	809

3.4. Grading (2027) - Mitigated

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	1.29	1.26	29.7	35.4	0.06	0.21	—	0.21	0.19	—	0.19	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	3.71	3.71	—	1.44	1.44	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	2.44	2.91	0.01	0.02	—	0.02	0.02	—	0.02	—	542	542	0.02	< 0.005	—	544
Dust From Material Movement	—	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.45	0.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.06	1.10	0.00	0.00	0.62	0.62	0.00	0.09	0.09	—	217	217	< 0.005	0.01	0.72	220
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.59	1.22	85.0	9.51	0.60	0.59	26.1	26.7	0.59	4.75	5.34	—	56,762	56,762	0.34	8.95	84.9	59,523
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	16.4	16.4	< 0.005	< 0.005	0.03	16.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.13	0.10	7.33	0.79	0.05	0.05	2.11	2.16	0.05	0.39	0.43	—	4,665	4,665	0.03	0.74	3.01	4,888
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.02	1.34	0.14	0.01	0.01	0.39	0.39	0.01	0.07	0.08	—	772	772	< 0.005	0.12	0.50	809

3.5. Building Construction (2027) - 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 Equipm ent	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.63	0.53	4.84	6.66	0.01	0.17	—	0.17	0.16	—	0.16	—	1,235	1,235	0.05	0.01	—	1,239
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.12	0.10	0.88	1.22	< 0.005	0.03	—	0.03	0.03	—	0.03	—	204	204	0.01	< 0.005	—	205
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.19	0.13	2.44	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	478	478	0.01	0.02	1.60	485
Vendor	0.02	0.02	0.96	0.17	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	688	688	< 0.005	0.10	1.42	721

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	0.18	0.17	0.16	1.91	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	430	430	0.01	0.02	0.04	436
Vendor	0.02	0.02	1.01	0.18	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	688	688	< 0.005	0.10	0.04	719
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	0.09	0.09	0.08	1.00	0.00	0.00	0.69	0.69	0.00	0.10	0.10	—	226	226	0.01	0.01	0.36	230
Vendor	0.01	0.01	0.51	0.09	< 0.005	< 0.005	0.19	0.19	< 0.005	0.03	0.04	—	355	355	< 0.005	0.05	0.32	371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.13	0.13	0.00	0.02	0.02	—	37.5	37.5	< 0.005	< 0.005	0.06	38.0
Vendor	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	58.7	58.7	< 0.005	0.01	0.05	61.4
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

3.6. Building Construction (2027) - Mitigated

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	0.67	0.61	12.2	15.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.67	0.61	12.2	15.0	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.34	0.32	6.27	7.70	0.01	0.06	—	0.06	0.06	—	0.06	—	1,235	1,235	0.05	0.01	—	1,239
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.06	0.06	1.15	1.41	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.01	< 0.005	—	205
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.19	0.13	2.44	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	478	478	0.01	0.02	1.60	485
Vendor	0.02	0.02	0.96	0.17	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	688	688	< 0.005	0.10	1.42	721
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	0.18	0.17	0.16	1.91	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	430	430	0.01	0.02	0.04	436

Vendor	0.02	0.02	1.01	0.18	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	688	688	< 0.005	0.10	0.04	719
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	0.09	0.09	0.08	1.00	0.00	0.00	0.69	0.69	0.00	0.10	0.10	—	226	226	0.01	0.01	0.36	230
Vendor	0.01	0.01	0.51	0.09	< 0.005	< 0.005	0.19	0.19	< 0.005	0.03	0.04	—	355	355	< 0.005	0.05	0.32	371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.13	0.13	0.00	0.02	0.02	—	37.5	37.5	< 0.005	< 0.005	0.06	38.0
Vendor	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	58.7	58.7	< 0.005	0.01	0.05	61.4
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

3.7. Building Construction (2028) - 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	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.36	0.30	2.74	3.97	0.01	0.09	—	0.09	0.08	—	0.08	—	736	736	0.03	0.01	—	738
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.07	0.06	0.50	0.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	122	122	< 0.005	< 0.005	—	122
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.11	2.29	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	469	469	0.01	0.02	1.45	475
Vendor	0.02	0.02	0.90	0.17	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	672	672	< 0.005	0.10	1.29	704
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	0.17	0.16	0.15	1.79	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	422	422	0.01	0.02	0.04	428
Vendor	0.02	0.02	0.95	0.17	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	672	672	< 0.005	0.10	0.03	703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.56	0.00	0.00	0.41	0.41	0.00	0.06	0.06	—	132	132	< 0.005	0.01	0.19	134
Vendor	0.01	< 0.005	0.29	0.05	< 0.005	< 0.005	0.11	0.11	< 0.005	0.02	0.02	—	206	206	< 0.005	0.03	0.17	216

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	0.10	0.00	0.00	0.08	0.08	0.00	0.01	0.01	—	21.9	21.9	< 0.005	< 0.005	0.03	22.2
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	34.2	34.2	< 0.005	0.01	0.03	35.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2028) - Mitigated

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	0.65	0.60	12.1	14.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.60	12.1	14.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	3.73	4.59	0.01	0.04	—	0.04	0.03	—	0.03	—	736	736	0.03	0.01	—	738

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.68	0.84	< 0.005	0.01	—	0.01	0.01	—	0.01	—	—	122	122	< 0.005	< 0.005	—	122
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.11	2.29	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	469	469	0.01	0.02	1.45	475	
Vendor	0.02	0.02	0.90	0.17	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	672	672	< 0.005	0.10	1.29	704	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.15	1.79	0.00	0.00	1.38	1.38	0.00	0.20	0.20	—	422	422	0.01	0.02	0.04	428	
Vendor	0.02	0.02	0.95	0.17	< 0.005	< 0.005	0.38	0.38	< 0.005	0.07	0.07	—	672	672	< 0.005	0.10	0.03	703	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.56	0.00	0.00	0.41	0.41	0.00	0.06	0.06	—	132	132	< 0.005	0.01	0.19	134	
Vendor	0.01	< 0.005	0.29	0.05	< 0.005	< 0.005	0.11	0.11	< 0.005	0.02	0.02	—	206	206	< 0.005	0.03	0.17	216	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.08	0.08	0.00	0.01	0.01	—	21.9	21.9	< 0.005	< 0.005	0.03	22.2	
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	34.2	34.2	< 0.005	0.01	0.03	35.8	
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	0.00

3.9. Paving (2028) - 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	0.82	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.39	1.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.36	0.54	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.78	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	159	159	< 0.005	0.01	0.49	161
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.03	0.03	0.00	< 0.005	< 0.005	—	8.02	8.02	< 0.005	< 0.005	0.01	8.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2028) - Mitigated

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	0.50	0.45	8.08	10.6	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.39	1.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.44	0.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.78	0.00	0.00	0.47	0.47	0.00	0.07	0.07	—	159	159	< 0.005	0.01	0.49	161
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.03	0.03	0.00	< 0.005	< 0.005	—	8.02	8.02	< 0.005	< 0.005	0.01	8.14

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2028) - 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	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	102	102	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34

Architectural	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.46	0.00	0.00	0.28	0.28	0.00	0.04	0.04	—	93.8	93.8	< 0.005	< 0.005	0.29	95.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.00	< 0.005	< 0.005	—	4.72	4.72	< 0.005	< 0.005	0.01	4.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Architectural Coating (2028) - Mitigated

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	0.13	0.11	0.81	1.12	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	70.4	70.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	3.86	3.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.70	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.46	0.00	0.00	0.28	0.28	0.00	0.04	0.04	—	93.8	93.8	< 0.005	< 0.005	0.29	95.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.00	< 0.005	< 0.005	—	4.72	4.72	< 0.005	< 0.005	0.01	4.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	263	263	0.11	0.01	—	269
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	88.5	88.5	0.04	< 0.005	—	90.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	351	351	0.15	0.02	—	360
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	263	263	0.11	0.01	—	269
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	88.5	88.5	0.04	< 0.005	—	90.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	351	351	0.15	0.02	—	360

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	43.5	43.5	0.02	< 0.005	—	44.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7	0.01	< 0.005	—	15.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.1	58.1	0.02	< 0.005	—	59.6

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	263	263	0.11	0.01	—	269
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	88.5	88.5	0.04	< 0.005	—	90.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	351	351	0.15	0.02	—	360
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	263	263	0.11	0.01	—	269
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	88.5	88.5	0.04	< 0.005	—	90.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	351	351	0.15	0.02	—	360

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	43.5	43.5	0.02	< 0.005	—	44.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7	0.01	< 0.005	—	15.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.1	58.1	0.02	< 0.005	—	59.6

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383
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
Total	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383
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
Total	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.2	63.2	0.01	< 0.005	—	63.3
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
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.2	63.2	0.01	< 0.005	—	63.3

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383
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
Total	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383
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
Total	0.04	0.02	0.32	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	381	381	0.03	< 0.005	—	383

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.2	63.2	0.01	< 0.005	—	63.3
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
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.2	63.2	0.01	< 0.005	—	63.3

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	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.07	0.99	0.05	6.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.7	24.7	< 0.005	< 0.005	—	24.8
Total	3.36	3.28	0.05	6.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.7	24.7	< 0.005	< 0.005	—	24.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.09	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.02
Total	0.51	0.51	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.02

4.3.2. Mitigated

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	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	1.07	0.99	0.05	6.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.7	24.7	< 0.005	< 0.005	—	24.8
Total	3.36	3.28	0.05	6.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.7	24.7	< 0.005	< 0.005	—	24.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.73	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.09	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.02
Total	0.51	0.51	< 0.005	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.02	2.02	< 0.005	< 0.005	—	2.02

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	1.16	4.40	0.33	0.01	—	15.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.24	1.16	4.40	0.33	0.01	—	15.1

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	19.6	6.99	26.6	2.01	0.05	—	91.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.24	1.16	4.40	0.33	0.01	—	15.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.24	1.16	4.40	0.33	0.01	—	15.1

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	12.9	0.00	12.9	1.29	0.00	—	45.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.9	0.00	12.9	1.29	0.00	—	45.2

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	78.1	0.00	78.1	7.81	0.00	—	273
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	12.9	0.00	12.9	1.29	0.00	—	45.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	12.9	0.00	12.9	1.29	0.00	—	45.2

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.66	0.66
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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)

Equipm ent	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipm ent 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)

Equipm ent 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipm ent 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	TOG	ROG	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	5/18/2027	5/27/2027	7.00	10.0	—
Grading	Grading	5/28/2027	6/26/2027	7.00	30.0	—
Building Construction	Building Construction	6/27/2027	4/21/2028	7.00	300	—
Paving	Paving	4/22/2028	5/11/2028	7.00	20.0	—
Architectural Coating	Architectural Coating	5/12/2028	5/31/2028	7.00	20.0	—

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/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
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	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
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

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29

Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 3	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	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	667	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	44.2	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	22.6	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2

Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.83	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	667	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	44.2	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	22.6	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2

Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.83	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (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	207,000	69,000	27,756

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	—	—	15.0	0.00	—
Grading	107,000	53,000	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	10.6

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
Regional Shopping Center	0.00	0%
Parking Lot	10.6	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	204	0.03	< 0.005
2028	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	VT/Weekday	VT/Saturday	VT/Sunday	VT/Year
Total all Land Uses	2,536	2,536	2,536	925,640	11,462	11,462	11,462	4,183,630

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VT/Weekday	VT/Saturday	VT/Sunday	VT/Year
Total all Land Uses	2,536	2,536	2,536	925,640	11,462	11,462	11,462	4,183,630

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	207,000	69,000	27,756

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Regional Shopping Center	1,202,266	79.7	0.0330	0.0040	1,190,333
Parking Lot	405,244	79.7	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Regional Shopping Center	1,202,266	79.7	0.0330	0.0040	1,190,333
Parking Lot	405,244	79.7	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)
Regional Shopping Center	10,222,008	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Regional Shopping Center	10,222,008	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	145	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Regional Shopping Center	145	—

Parking Lot	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
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	CO2 emission factor estimated based upon RPS compliance.
Land Use	Based on project-specific information.
Construction: Construction Phases	Based on project-specific information
Construction: Dust From Material Movement	Construction material movement based on project-specific information. Watering 2x/day based on Rule 223-1, Table 1.
Construction: Architectural Coatings	Updated the VOC emission factor based on EDCAPCD Rule 215 Limits.
Operations: Consumer Products	Updated based on county specific data, refer to report for further details.
Operations: Architectural Coatings	Updated the VOC emission factor based on EDCAPCD Rule 215 Limits.
Construction: On-Road Fugitive Dust	Percent paved roads updated based on Project-specific information.
Operations: Road Dust	Percent paved roads updated based on Project-specific information.

APPENDIX B CONSTRUCTION INPUTS

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Table B-1:	Construction Schedule - North Site Remainder Area
Table B-2:	Construction Equipment Assumptions - North Site Remainder Area
Table B-3:	Construction Trip Assumptions - North Site Remainder Area
Table B-4:	Construction Material Movement - North Site Remainder Area

Table B-1. Construction Schedule - North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name ¹	CalEEMod Phase Type ¹	Start Date ¹	End Date ¹	Phase Duration ² (days)
Site Preparation	Site Preparation	5/18/2027	5/27/2027	10
Grading	Grading	5/28/2027	6/26/2027	30
Building Construction	Building Construction	6/27/2027	4/21/2028	300
Paving	Paving	4/22/2028	5/11/2028	20
Architectural Coating	Architectural Coating	5/12/2028	5/31/2028	20

Notes:

¹ Construction of the North Side Remainder Area land uses is conservatively assumed to begin immediately after the EDH Costco Project is operational. Construction phases and duration are based on CalEEMod defaults.

² The construction work week was assumed to be 7 days per week.

Abbreviations:

CalEEMod - California Emissions Estimator Model

EDH - El Dorado Hills

Table B-2. Construction Equipment Assumptions - North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Offroad Equipment Type ¹	Number of Equipment ¹	Usage Hours ¹ (hours/day)	Equipment Horsepower ¹ (hp)	Equipment Load Factor ¹	Fuel Type ¹	Engine Tier for Unmitigated Project ¹	Diesel Particulate Filter Level for Unmitigated Project ¹	Engine Tier for Mitigated Project ²	Diesel Particulate Filter Level for Mitigated Project ²
Site Preparation	Rubber Tired Dozers	3	8	367	0.40	Diesel	Average	N/A	Tier 3	Level 3
Site Preparation	Tractors/Loaders/Backhoes	4	8	84	0.37	Diesel	Average	N/A	Tier 3	Level 3
Grading	Excavators	2	8	36	0.38	Diesel	Average	N/A	Average	N/A
Grading	Graders	1	8	148	0.41	Diesel	Average	N/A	Tier 3	Level 3
Grading	Rubber Tired Dozers	1	8	367	0.40	Diesel	Average	N/A	Tier 3	Level 3
Grading	Scrapers	2	8	423	0.48	Diesel	Average	N/A	Tier 3	Level 3
Grading	Tractors/Loaders/Backhoes	2	8	84	0.37	Diesel	Average	N/A	Tier 3	Level 3
Building Construction	Cranes	1	7	367	0.29	Diesel	Average	N/A	Tier 3	Level 3
Building Construction	Forklifts	3	8	82	0.20	Diesel	Average	N/A	Tier 3	Level 3
Building Construction	Generator Sets	1	8	14	0.74	Diesel	Average	N/A	Average	N/A
Building Construction	Tractors/Loaders/Backhoes	3	7	84	0.37	Diesel	Average	N/A	Tier 3	Level 3
Building Construction	Welders	1	8	46	0.45	Diesel	Average	N/A	Average	N/A
Paving	Pavers	2	8	81	0.42	Diesel	Average	N/A	Tier 3	Level 3
Paving	Paving Equipment	2	8	89	0.36	Diesel	Average	N/A	Tier 3	Level 3
Paving	Rollers	2	8	36	0.38	Diesel	Average	N/A	Average	N/A
Architectural Coating	Air Compressors	1	6	37	0.48	Diesel	Average	N/A	Average	N/A

Notes:¹ Based on CalEEMod default values.

² The mitigation measure requires that construction equipment greater than 50 hp used at the site shall be mitigated to meet USEPA Tier 4 Final emission standards for PM₁₀ and PM_{2.5}. If Tier 4 Final equipment is viable but not available, all construction equipment larger than 50 horsepower used at the site shall meet USEPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices. To be conservative, this analysis assumed that off-road construction equipment larger than 50 horsepower are equipped with Tier 3 engines and DPFs for the mitigated emissions.

Abbreviations:

CalEEMod - California Emissions Estimator Model

CARB - California Air Resources Board

DPF - Diesel Particulate Filter

hp - horsepower

N/A - not available

PM₁₀ - particulate matter less than 10 microns in diameterPM_{2.5} - particulate matter less than 2.5 microns in diameter

USEPA - United States Environmental Protection Agency

Table B-3. Construction Trip Assumptions - North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Worker Trips per Day ^{1,2}	Vendor Trips per Day ^{1,2}	Hauling Trips per Day ^{1,2}
Site Preparation	18	0	0
Grading	20	0	667
Building Construction	44	23	0
Paving	15	0	0
Architectural Coating	9	0	0

Notes:

¹ Trips are presented as one-way trips per day.

² Worker, vendor, and hauling trips are based on CalEEMod defaults. The one-way trip lengths for worker, vendor, and hauling trips are assumed to be the CalEEMod default values of 14.3 miles, 8.8 miles, and 20.0 miles, respectively.

Abbreviations:

CalEEMod - California Emissions Estimator Model

Table B-4. Construction Material Movement - North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	Material Imported ¹ (yd³)	Material Exported ¹ (yd³)
Grading	107,000	53,000

Notes:

¹ Soil import and export quantities based on project-specific data.

Abbreviations:

yd³ - cubic yard

APPENDIX C

CONSTRUCTION EMISSION CALCULATION TABLES

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- Table C-1: Estimating Unmitigated Criteria Air Pollutant Emissions for North Site Remainder Area Construction
- Table C-2: Estimating Mitigated Criteria Air Pollutant Emissions for North Site Remainder Area Construction

Table C-1. Estimating Unmitigated Criteria Air Pollutant Emissions for North Site Remainder Area Construction

El Dorado Hills Costco Project
El Dorado Hills, California

Construction Phases ¹	Start Date	End Date	Number of Construction Days	Construction Time Period	Season ²	Daily ROG Emissions ³ (lbs/day)	Daily NO _x Emissions ³ (lbs/day)	Daily CO Emissions ³ (lbs/day)	Daily SO _x Emissions ^{3,4} (lbs/day)	Daily PM ₁₀ Emissions ^{3,5} (lbs/day)	Daily PM _{2.5} Emissions ^{3,5} (lbs/day)	Total ROG Emissions ⁶ (lbs)	Total NO _x Emissions ⁶ (lbs)	Total CO Emissions ⁶ (lbs)	Total SO _x Emissions ^{4,6} (lbs)	Total PM ₁₀ Emissions ^{5,6} (lbs)	Total PM _{2.5} Emissions ^{5,6} (lbs)
Site Preparation	5/18/2027	5/27/2027	10	First Quarter	Summer	3.1	28.0	29.2	0.0	9.4	5.1	31	280	292	0.5	94	51
Grading	5/28/2027	6/26/2027	30	First Quarter	Summer	4.3	110.7	37.9	0.7	32.1	7.8	128	3,320	1,137	19.9	962	235
Building Construction	6/27/2027	8/17/2027	52	First Quarter	Summer	1.2	10.5	15.6	0.0	2.1	0.6	64	545	809	1.4	109	30
Building Construction	8/18/2027	9/30/2027	44	Second Quarter	Summer	1.2	10.5	15.6	0.0	2.1	0.6	55	461	684	1.2	92	25
Building Construction	10/1/2027	11/17/2027	48	Second Quarter	Winter	1.2	10.6	15.0	0.0	2.1	0.6	59	507	721	1.3	100	28
Building Construction	11/18/2027	12/31/2027	44	Third Quarter	Winter	1.2	10.6	15.0	0.0	2.1	0.6	54	465	661	1.2	92	25
Building Construction	1/1/2028	2/17/2028	48	Third Quarter	Winter	1.2	10.0	14.9	0.0	2.1	0.5	56	481	715	1.3	99	26
Building Construction	2/18/2028	3/31/2028	43	Fourth Quarter	Winter	1.2	10.0	14.9	0.0	2.1	0.5	50	431	641	1.2	88	23
Building Construction	4/1/2028	4/21/2028	21	Fourth Quarter	Summer	1.2	9.9	15.4	0.0	2.1	0.5	25	209	323	0.6	43	11
Paving	4/22/2028	5/11/2028	20	Fourth Quarter	Summer	2.1	6.7	10.7	0.0	0.7	0.3	43	133	214	0.3	14	6
Architectural Coating	5/12/2028	5/31/2028	20	Fourth Quarter	Summer	102.6	0.8	1.6	0.0	0.3	0.1	2,051	17	32	0.0	6	1

Notes:

¹ Construction phases and duration are based on CalEEMod defaults. Refer to **Appendix B** for further details.

² Based on CalEEMod defaults.

³ Estimated by summing up the maximum daily emissions for the construction phase. Maximum daily emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A**.

⁴ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.

⁵ Particulate matter emissions include exhaust emissions from off-road construction equipment, fugitive dust emissions from on-site construction activities, and exhaust/tire wear/brake wear/entrained road dust emissions from on-road vehicles associated with project construction. As noted in Section 4.2.3 of the Air Quality Technical Report, fugitive dust emissions will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1. Particulate matter emissions presented here account for these control measures for fugitive dust emissions.

⁶ Estimated by multiplying the maximum daily emissions by the number of construction days for each construction phase.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODeI

CO - carbon monoxide

EDCAQMD - El Dorado County Air Quality Management District

lb - pound

NO_x - nitrogen oxide compounds

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SO₂ - sulfur dioxide

SO_x - sulfur oxide compounds

Table C-2. Estimating Mitigated Criteria Air Pollutant Emissions for North Site Remainder Area Construction

El Dorado Hills Costco Project
El Dorado Hills, California

Construction Phases ¹	Start Date	End Date	Number of Construction Days	Construction Time Period	Season ²	Daily ROG Emissions ³ (lbs/day)	Daily NO _x Emissions ³ (lbs/day)	Daily CO Emissions ³ (lbs/day)	Daily SO _x Emissions ^{3,4} (lbs/day)	Daily PM ₁₀ Emissions ^{3,5} (lbs/day)	Daily PM _{2.5} Emissions ^{3,5} (lbs/day)	Total ROG Emissions ⁶ (lbs)	Total NO _x Emissions ⁶ (lbs)	Total CO Emissions ⁶ (lbs)	Total SO _x Emissions ^{4,6} (lbs)	Total PM ₁₀ Emissions ^{5,6} (lbs)	Total PM _{2.5} Emissions ^{5,6} (lbs)
Site Preparation	5/18/2027	5/27/2027	10	First Quarter	Summer	1.0	24.1	29.3	0.0	8.4	4.1	10	241	293	0.5	84	41
Grading	5/28/2027	6/26/2027	30	First Quarter	Summer	2.6	114.8	46.0	0.7	31.2	7.1	77	3,445	1,381	19.9	937	212
Building Construction	6/27/2027	8/17/2027	52	First Quarter	Summer	0.8	13.3	17.6	0.0	1.9	0.4	43	690	913	1.4	98	20
Building Construction	8/18/2027	9/30/2027	44	Second Quarter	Summer	0.8	13.3	17.6	0.0	1.9	0.4	36	584	773	1.2	83	17
Building Construction	10/1/2027	11/17/2027	48	Second Quarter	Winter	0.8	13.4	17.0	0.0	1.9	0.4	39	641	818	1.3	90	18
Building Construction	11/18/2027	12/31/2027	44	Third Quarter	Winter	0.8	13.4	17.0	0.0	1.9	0.4	35	588	750	1.2	83	17
Building Construction	1/1/2028	2/17/2028	48	Third Quarter	Winter	0.8	13.2	16.9	0.0	1.9	0.4	37	636	811	1.3	90	18
Building Construction	2/18/2028	3/31/2028	43	Fourth Quarter	Winter	0.8	13.2	16.9	0.0	1.9	0.4	33	569	727	1.2	80	16
Building Construction	4/1/2028	4/21/2028	21	Fourth Quarter	Summer	0.8	13.2	17.4	0.0	1.9	0.4	17	276	365	0.6	39	8
Paving	4/22/2028	5/11/2028	20	Fourth Quarter	Summer	1.9	8.1	11.4	0.0	0.6	0.2	38	162	227	0.3	11	3
Architectural Coating	5/12/2028	5/31/2028	20	Fourth Quarter	Summer	70.6	0.8	1.6	0.0	0.3	0.1	1,411	17	32	0.0	6	1

Notes:

- ¹ Construction phases and duration are based on CalEEMod defaults. Refer to **Appendix B** for further details.
- ² Based on CalEEMod defaults.
- ³ Estimated by summing up the maximum daily emissions for the construction phase. Maximum daily emissions for the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating phases are obtained from **Appendix A**.
- ⁴ For purposes of this analysis SO_x emissions are assumed to be equal to SO₂.
- ⁵ Particulate matter emissions include exhaust emissions from off-road construction equipment, fugitive dust emissions from on-site construction activities, and exhaust/tire wear/brake wear/entrained road dust emissions from on-road vehicles associated with project construction. As noted in Section 4.2.3 of the Air Quality Technical Report, fugitive dust emissions will be controlled by watering the construction site twice daily in accordance with the EDCAQMD Rule 223-1. Particulate matter emissions presented here account for these control measures for fugitive dust emissions.
- ⁶ Estimated by multiplying the maximum daily emissions by the number of construction days for each construction phase.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel
CO - carbon monoxide
EDCAQMD - El Dorado County Air Quality Management District
lb - pound
NO_x - nitrogen oxide compounds
PM₁₀ - particulate matter less than 10 microns in diameter
PM_{2.5} - particulate matter less than 2.5 microns in diameter
ROG - reactive organic gases
SO₂ - sulfur dioxide
SO_x - sulfur oxide compounds

APPENDIX D

CONSTRUCTION ENERGY CALCULATIONS

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Table D-1: Off-Road Equipment Fuel Consumption During Construction - North Site Remainder Area

Table D-2: On-Road Vehicle Fuel Consumption During Construction - North Site Remainder Area

Table D-1. Off-Road Equipment Fuel Consumption During Construction - North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Construction Phase Name	CO ₂ Emissions ¹ (MT/yr)	Diesel Consumption ² (gallons/yr)
Site Preparation (2027)	24.0	2,354
Grading (2027)	89.8	8,794
Building Construction (2027)	204.4	20,021
Building Construction (2028)	121.8	11,929
Paving (2028)	13.7	1,343
Architectural Coating (2028)	1.2	119

Constants:

10.21 kg CO₂/gallon diesel consumed in combustion engines ³

1,000 kg CO₂/MT CO₂

Notes:

¹ Exhaust CO₂ emissions from off-road construction equipment used during the Site Preparation; Grading; Building Construction; Paving; and Architectural Coating construction phases that occur during remainder area development construction are obtained from the CalEEMod model run shown in **Appendix A**.

² Diesel consumption of off-road construction equipment during each construction phase is estimated as a ratio of the CO₂ emissions from these equipment to the CO₂ emission factor per gallon of diesel consumed.

³ Obtained from the USEPA GHG Emission Factors Hub. Available at:

<https://www.epa.gov/system/files/documents/2025-01/ghg-emission-factors-hub-2025.pdf>. Accessed: June 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel

CO₂ - carbon dioxide

GHG - greenhouse gas

kg - kilograms

MT - metric ton

USEPA - United States Environmental Protection Agency

yr - year

Table D-2. On-Road Vehicle Fuel Consumption During Construction - North Site Remainder Area

El Dorado Hills Costco Project
El Dorado Hills, California

Construction Phase Name ¹	Phase Duration ¹ (days)	Worker Trip Rates ² (one-way trips/day)	Vendor Trip Rates ² (one-way trips/day)	Hauling Trip Number ² (one-way trips/day)	Worker Trip Length ³ (miles/one-way trip)	Vendor Trip Length ³ (miles/one-way trip)	Hauling Trip Length ³ (miles/one-way trip)	Worker Vehicle Miles Traveled ⁴ (miles)	Vendor Vehicle Miles Traveled ⁴ (miles)	Hauling Vehicle Miles Traveled ⁴ (miles)	Worker Gasoline Fuel Consumption ⁵ (gallons)	Vendor Diesel Fuel Consumption ⁵ (gallons)	Hauling Diesel Fuel Consumption ⁵ (gallons)
Site Preparation (2027)	10	17.5	-	-	14.3	-	-	2,503	-	-	95	-	-
Grading (2027)	30	20.0	-	667	14.3	-	20.0	8,580	-	400,000	324	-	79,925
Building Construction (2027)	188	44.2	22.6	-	14.3	8.80	-	118,720	37,420	-	4,487	7,554	-
Building Construction (2028)	112	44.2	22.6	-	14.3	8.80	-	70,727	22,292	-	2,621	4,461	-
Paving (2028)	20	15.0	-	-	14.3	-	-	4,290	-	-	159	-	-
Architectural Coating (2028)	20	8.83	-	-	14.3	-	-	2,526	-	-	94	-	-

Notes:

- ¹ Construction phases and duration (**Table B-1**) are based on CalEEMod defaults. Refer to **Section 3** of the report for further details.
- ² The number of worker and vendor trips represent CalEEMod defaults based on the construction equipment used in each construction phase. The number of hauling trips were estimated by CalEEMod based on volume of soil that would be imported/exported during construction. Refer to **Appendix B** for further details.
- ³ The trip lengths for on-road vehicles used during construction are CalEEMod default values.
- ⁴ Estimated based on trip rates, trip length, and phase duration.
- ⁵ Fuel consumption of on-road vehicles used during each construction phase are estimated as a product of the vehicle miles traveled by each vehicle type and its fuel consumption rate in gallons per mile.
- ⁶ Fuel consumption rates for on-road vehicles are calculated using vehicle class-specific fuel consumption data from EMFAC2021 (see the supporting table below, which presents EMFAC2021 outputs for 2027 and 2028 in El Dorado-Mountain County), the fleet mix for each trip type (worker, vendor, and hauling), and vehicle miles traveled. The fleet mix for the worker, vendor, and hauling trucks are based on CalEEMod defaults. Worker vehicles are assumed to be gasoline fueled and include light duty automobiles and trucks (25% LDA, 50% LDT1, 25% LDT2). Vendor vehicles are assumed to be diesel fueled and include heavy heavy-duty trucks and medium heavy duty trucks (50% HHDT and 50% MHDT). Hauling vehicles are assumed to be diesel fueled and include heavy heavy-duty trucks (100% HHDT).

Fuel Consumption Rates by Vehicle Type: ⁶

Worker Vehicles in 2027: 0.0378 gallons/mile
Worker Vehicles in 2028: 0.0371 gallons/mile
Vendor Vehicles in 2027: 0.2019 gallons/mile
Vendor Vehicles in 2028: 0.2001 gallons/mile
Haul Trucks in 2027: 0.1998 gallons/mile

Abbreviations:

CalEEMod - California Emissions Estimator Model
EMFAC - EMission FACTors model
HHDT - heavy heavy-duty trucks
LDA - light-duty automobile
LDT - light-duty truck
MHDT - medium heavy-duty trucks

Table D-2. On-Road Vehicle Fuel Consumption During Construction - North Site Remainder Area

El Dorado Hills Costco Project
El Dorado Hills, California

Supporting Table of EMFAC Outputs

Calendar Year	EMFAC Vehicle Class	Fuel Type	EMFAC VMT Output (miles)	EMFAC Fuel Use Output (gallons)	Average Fuel Consumption (gallons/mile)
2027	LDA	Gasoline	1,619,691	51,441	0.0318
2027	LDT1	Gasoline	181,944	7,232	0.0397
2027	LDT2	Gasoline	1,158,122	46,256	0.0399
2027	MHDT	Gasoline	5,957	1,215	0.2039
2027	HHDT	Diesel	28,804	5,755	0.1998
2028	LDA	Gasoline	1,633,311	50,730	0.0311
2028	LDT1	Gasoline	175,495	6,850	0.0390
2028	LDT2	Gasoline	1,170,851	45,776	0.0391
2028	MHDT	Gasoline	6,113	1,237	0.2023
2028	HHDT	Diesel	28,701	5,682	0.1980

Abbreviations:
EMFAC - EMission FACtors model
HHDT - heavy heavy-duty trucks
LDA - light-duty automobile
LDT - light-duty truck
MHDT - medium heavy-duty trucks
VMT - vehicle miles traveled

APPENDIX E OPERATIONAL INPUTS

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- Table E-2: Reactive Organic Gas Emission Factor for Consumer Product Usage in El Dorado County
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Table E-1. Operational Mobile Source Assumptions - North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Total daily trips ^{1,2}	2,536	trips/day
Average trip length ¹	4.52	miles
Daily VMT ^{1,2}	11,463	miles/day

Notes:

¹ Obtained from the July 2025 El Dorado Costco CEQA Analysis report prepared by Kittelson & Associates, Inc.

² For purposes of this analysis the daily trip and VMT assumptions were used for both weekdays and weekends.

Abbreviations:

CEQA - California Environmental Quality Act

VMT - vehicle miles travelled

Table E-2. Reactive Organic Gas Emission Factor for Consumer Product Usage in El Dorado County for Calendar Year 2028

El Dorado Hills Costco Project
El Dorado Hills, California

Countywide ROG Inventory for Consumer Product Usage¹ (tons/day)	County Population²	Total Building Square Footage in the County³ (sqft)	ROG Emission Factors for Consumer Product Usage⁴ (lb/sqft/day)
1.354	188,380	220,388,409	1.23E-05

Notes:

¹ ROG consumer products inventory for El Dorado County in calendar year 2028 was obtained from the California Emissions Projection Analysis Model, CEPAM2019v1.04. Available at: <https://ww2.arb.ca.gov/applications/cepam2019v1-04-standard-emission-tool>. Accessed: May 2025.

² Population estimates for El Dorado County in 2020 and 2028 were obtained from the State of California Department of Finance website. Available at: <https://dof.ca.gov/forecasting/demographics/projections/>. Accessed: May 2025.

³ Total building square footage in 2028 was estimated as the product of the countywide building square footage per person in 2020 multiplied by the population projection for El Dorado County in calendar Year 2028.

⁴ The consumer product ROG emission factor for consumer product usage is calculated as the ratio of the countywide ROG inventory for consumer product usage to the total building square footage in the county.

⁵ Total building square footage in El Dorado County for 2020 was obtained from FEMA HAZUS-MH software (version 7.0). Available at: <https://msc.fema.gov/portal/resources/hazus>. Accessed: May 2025.

Constants:

El Dorado County Population ² in Calendar Year 2020:	191,522
Total Building Square Footage ⁵ in El Dorado County in 2020:	224,064,279

Conversion Factor:

2000 lb/ton

Abbreviations:

FEMA - Federal Emergency Management Agency

lb - pound

ROG - reactive organic compounds

sqft - square foot

Table E-3. Utility GHG Emission Factor Associated with Renewable Portfolio Standard

El Dorado Hills Costco Project

El Dorado Hills, California

Energy Generated (MWh)

	2020	2021	2022	Average	Units
CO ₂ Intensity Factor per Total Energy Generated ¹	160	98	56	105	lbs CO ₂ /MWh generated
% of Total Energy From Renewables ²	35.1%	47.7%	38.5%	40.4%	
CO ₂ Intensity Factor per Total Non-Renewable Energy ³	247	187	91	176	lbs CO ₂ /MWh generated

Calculated Intensity Factors for Total Energy Delivered ⁴

2027 RPS (52% Renewable Energy)	118.3	89.9	43.7	84.3	lbs CO ₂ /MWh generated
2028	111.8	84.9	41.3	79.7	lbs CO ₂ /MWh generated
2030 RPS (60% Renewable Energy)	98.6	75.0	36.4	70.3	lbs CO ₂ /MWh generated

Notes:

¹ Obtained from PG&E's 2024 Corporate Sustainability Reports. Note that 2023 values are not provided because they are subject to regulatory approval and verification at the time of this report preparation.

² Obtained from PG&E's 2021, 2022, and 2023 Corporate Sustainability Reports.

³ The emissions metric presented here is calculated based on the total CO₂ emissions for total energy generated divided by the energy generated from non-renewable sources.

⁴ The intensity factors for default RPS assumption are estimated multiplying the maximum allowable percentage of non-renewable energy per RPS and the CO₂ intensity factor per total non-renewable energy calculated above. The RPS minimum targets for renewable energy delivered are 52% for 2027 and 60% for 2030 per Senate Bill 100. The estimate provided here assumes that renewable energy sources do not result in any CO₂ emissions.

Abbreviations:CO₂ - carbon dioxide

GHG - greenhouse gases

lbs - pounds

MWh - megawatt-hour

PG&E - Pacific Gas and Electric

RPS - Renewable Portfolio Standards

References:

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APPENDIX F

OPERATIONAL ENERGY CALCULATIONS

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Table F-1. Operational Electricity Consumption for the North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Project Land Use	Project Electricity Demand ¹ (kWh/yr)
Regional Shopping Center	1,202,266
Parking Lot	405,244
Total	1,607,510

Notes:

¹ Obtained from CalEEMod model run for the North Site Remainder Area shown in **Appendix A**.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel

kWh - kilowatt hours

yr - year

Table F-2. Operational Natural Gas Consumption for the North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Project Land Use	Project Natural Gas Demand ¹ (kBTU/yr)
Regional Shopping Center	1,190,333
Parking Lot	0
Total	1,190,333

Notes:

¹ Obtained from CalEEMod model run for the North Site Remainder Area shown in **Appendix A**.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel

kBTU - kilo British Thermal Unit

yr - year

Table F-3. CalEEMod Default Fleet Mix for El Dorado County in Calendar Year 2028

El Dorado Hills Costco Project

El Dorado Hills, California

Vehicle Category	CalEEMod Default Fleet Mix ¹
LDA	38.10%
LDT1	4.98%
LDT2	26.68%
MDV	17.26%
LHDT1	5.18%
LHDT2	1.23%
MHDT	1.61%
HHDT	0.41%
OBUS	0.07%
UBUS	0.04%
MCY	3.53%
SBUS	0.13%
MH	0.78%

Notes:

¹ CalEEMod default for El Dorado (MC) sub-area, calendar year 2028.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODeI

HHDT - Heavy heavy-duty truck

LDA - light duty automobiles

LDT - light-duty trucks

LHDT - light heavy-duty trucks

MC - Mountain County

MCY - motorcycles

MDV - medium-duty vehicle

MH - motor homes

MHDT - medium heavy-duty trucks

OBUS - other buses

SBUS - school buses

UBUS - urban buses

Table F-4. Operational Vehicle Fleet Mix for the North Site Remainder Area
El Dorado Hills Costco Project
El Dorado Hills, California

Vehicle Category	Fuel Type	EMFAC VMT Output ¹ (miles/day)	Fleet Mix ²
LDA	Gasoline	1,633,311	33.29%
LDA	Plug-in Hybrid	69,525	1.42%
LDA	Electricity	161,238	3.29%
LDA	Diesel	4,739	0.10%
LDT1	Gasoline	175,495	4.93%
LDT1	Plug-in Hybrid	815	0.02%
LDT1	Electricity	996	0.03%
LDT1	Diesel	8	0.00%
LDT2	Gasoline	1,170,851	25.97%
LDT2	Plug-in Hybrid	16,120	0.36%
LDT2	Electricity	11,154	0.25%
LDT2	Diesel	4,900	0.11%
MDV	Gasoline	660,798	16.38%
MDV	Plug-in Hybrid	9,758	0.24%
MDV	Electricity	11,461	0.28%
MDV	Diesel	14,415	0.36%
LHDT1	Gasoline	96,642	2.52%
LHDT1	Diesel	96,871	2.53%
LHDT1	Electricity	4,871	0.13%
LHDT2	Gasoline	7,595	0.19%
LHDT2	Diesel	40,102	1.01%
LHDT2	Electricity	1,065	0.03%
MHDT	Gasoline	6,113	0.12%
MHDT	Diesel	73,139	1.43%
MHDT	Electricity	3,444	0.07%
HHDT	Gasoline	17	0.00%
HHDT	Diesel	28,701	0.39%
HHDT	Electricity	1,232	0.02%
HHDT	Natural Gas	132	0.00%
OBUS	Gasoline	992	0.02%
OBUS	Diesel	3,160	0.05%
OBUS	Electricity	53	0.00%
OBUS	Natural Gas	38	0.00%
UBUS	Gasoline	1,054	0.01%
UBUS	Diesel	3,484	0.03%
UBUS	Electricity	208	0.00%
MCY	Gasoline	19,584	3.53%
SBUS	Gasoline	681	0.02%
SBUS	Diesel	3,110	0.11%
SBUS	Electricity	112	0.00%
MH	Gasoline	4,455	0.47%
MH	Diesel	2,891	0.31%

Notes:

¹ Default EMFAC2021 output for the El Dorado (MC) sub-area in calendar year 2028.

² The fleet mix for the vehicles incorporates the CalEEMod default fleet mix for El Dorado (MC) sub-area, calendar year 2028, weighted by the EMFAC VMT by fuel type.

Abbreviations:

- CalEEMod - CALifornia Emissions Estimator MODeL
- EMFAC - EMission FACtors model
- HHDT - Heavy heavy-duty truck
- LDA - light duty automobiles
- LDT - light-duty trucks
- LHDT - light heavy-duty trucks
- MC - Mountain County
- MCY - motorcycles
- MDV - medium-duty vehicle
- MH - motor homes
- MHDT - medium heavy-duty trucks
- OBUS - other buses
- SBUS - school buses
- UBUS - urban buses
- VMT - vehicle miles traveled

Table F-5. Operational Mobile Source Gasoline Consumption for the North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Mobile Source Category	Mobile Source Activity ¹ (miles/yr)	Mobile Source Activity Associated with Gasoline Combustion ² (miles/yr)	Gasoline Consumption ³ (gallons/yr)
Gasoline Vehicles	3,658,816	3,658,816	144,096
Plug in Hybrid Vehicles	85,324	38,323	1,372

Constants:

Average fuel efficiency of gasoline vehicles in 2028 ⁴

25 miles per gallon

Average fuel efficiency of plug-in hybrid electric
vehicles in 2028 ⁴

28 miles per gallon

Notes:

¹ The annual vehicle miles travelled by operational mobile sources (obtained from the CalEEMod model run in **Appendix A**) was apportioned into gasoline and plug-in-hybrid vehicle technology categories based on the operational vehicle fleet mix shown in **Table F-4**.

² The vehicle miles travelled associated with gasoline combustion for each vehicle technology category was estimated based on EMFAC default assumptions for gasoline and plug-in hybrid vehicles operating in El Dorado (MC) sub-area in calendar year 2028.

³ Gasoline consumption of vehicles are estimated as a ratio of the vehicle miles traveled associated with gasoline combustion for each vehicle technology category and its average fuel efficiency in miles per gallon.

⁴ The average fuel efficiency for each gasoline vehicle technology category operating in for El Dorado (MC) sub-area in calendar year 2028 is obtained from EMFAC2021.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODEl

EMFAC - EMIssion FACtors model

MC - Mountain County

yr - year

Table F-6. Operational Mobile Source Natural Gas Consumption for the North Site Remainder Area
 El Dorado Hills Costco Project
 El Dorado Hills, California

Mobile Source Category	Mobile Source Activity ¹ (miles/yr)	Natural Gas Consumption ² (kBtu/yr)
Natural Gas Vehicles	102	2,580

Constants:

Average fuel efficiency of natural gas vehicles ³ 5.73 miles per diesel equivalent gallon

Conversion Factors:^{4,5}

139.3 scf of CNG per diesel equivalent gallon
 1.039 kBtu per cubic foot of NG

Notes:

- ¹ The annual vehicle miles travelled by operational mobile sources (obtained from the CalEEMod model run in **Appendix A**) was apportioned into natural gas vehicle technology based on the operational vehicle fleet mix shown in **Table F-4**.
- ² Fuel consumption for natural gas vehicles is estimated as a ratio of vehicle miles traveled to the average fuel efficiency of natural gas vehicles.
- ³ The average fuel efficiency for natural gas vehicles operating in El Dorado (MC) sub-area in calendar year 2028 is obtained from EMFAC2021.
- ⁴ Scf of CNG per diesel equivalent gallon was obtained from the Alternative Fuels Data Center Gasoline and Diesel Gallon Equivalency Methodology. Available at: <https://afdc.energy.gov/fuels/equivalency-methodology>. Accessed: June 2025.
- ⁵ kBtu per cubic foot of NG was obtained from the NRG Energy Conversion Calculator. Available at: <https://www.nrg.com/resources/energy-tools/energy-conversion-calculator.html>. Accessed: June 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel	MC - Mountain County
CNG - compressed natural gas	NG - natural gas
EMFAC - EMIssion FACtors model	scf - standard cubic feet
kBtu - kilo-British thermal unit	yr - year

Table F-7. Operational Mobile Source Diesel Consumption for the North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Mobile Source Category	Mobile Source Activity ¹ (miles/yr)	Diesel Consumption ² (gallons/yr)
Diesel Vehicles	268,259	24,867

Constants:

Average fuel efficiency of diesel vehicles ³

10.79 miles per gallon

Notes:

¹ The annual vehicle miles travelled by operational mobile sources (obtained from the CalEEMod model run in **Appendix A**) was apportioned into diesel vehicle technology based on the operational vehicle fleet mix shown in **Table F-4**.

² Fuel consumption for diesel vehicles is estimated as a ratio of vehicle miles traveled to the average fuel efficiency of diesel vehicles.

³ The average fuel efficiency for diesel vehicles operating in El Dorado (MC) sub-area in calendar year 2028 is obtained from EMFAC2021.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODeL

EMFAC - EMission FACtors model

MC - Mountain County

yr - year

Table F-8. Operational Mobile Source Electricity Consumption for the North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Mobile Source Category	Mobile Source Activity ¹ (miles/yr)	Mobile Source Activity Associated with Electricity Consumption ² (electric miles/yr)	Electricity Consumption ³ (kWh/yr)
Battery Electric Vehicles	171,129	171,129	51,686
Plug in Hybrid Vehicles	85,324	47,000	14,195

Constants:

Average fuel efficiency for plug-in hybrid electric vehicles in 2028 ⁴

3.31 miles per kWh

Average fuel efficiency for electric vehicles in 2028 ⁴

2.39 miles per kWh

Notes:

¹ The annual vehicle miles travelled by operational mobile sources (obtained from the CalEEMod model run in **Appendix A**) was apportioned into battery electric and plug-in-hybrid vehicle technology categories based on the operational vehicle fleet mix shown in **Table F-4**.

² The fraction of electric vehicle miles traveled by plug-in hybrid vehicles was estimated based on EMFAC default assumptions for plug-in hybrid vehicles operating in El Dorado (MC) sub-area in calendar year 2028.

³ The electricity consumption is estimated as the ratio of the electric miles traveled to the average fuel efficiency of each vehicle technology in miles per kilowatt-hour.

⁴ The average fuel efficiencies of battery electric and plug-in hybrid vehicles operating in El Dorado (MC) sub-area in calendar year 2028 are obtained from EMFAC2021.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel

EMFAC - EMIssion FACtors model

GDF - gasoline dispensing facility

kWh - kilowatt-hour

MC - Mountain County

yr - year

Table F-9. Operational Landscape Equipment Gasoline Consumption for the North Site Remainder Area

El Dorado Hills Costco Project

El Dorado Hills, California

Area Source Category	CO ₂ Emissions ¹ (MT/yr)	Gasoline Consumption ² (gallons/yr)
Landscape equipment	2.02	230

Conversion Factors:

8.78 kg CO₂/gallon gasoline consumed in combustion engines ³

1,000 kg CO₂/MT CO₂

Notes:

¹ Exhaust CO₂ emissions from landscaping equipment are obtained from the CalEEMod model run in **Appendix A**.

² Gasoline consumption of landscaping equipment is estimated as a ratio of the CO₂ emissions from these equipment to the CO₂ emission factor per gallon of gasoline consumed.

³ Obtained from the USEPA GHG Emission Factors Hub. Available at:

<https://www.epa.gov/system/files/documents/2025-01/ghg-emission-factors-hub-2025.pdf>. Accessed: June 2025.

Abbreviations:

CalEEMod - CALifornia Emissions Estimator MODel

CO₂ - carbon dioxide

GHG - greenhouse gas

kg - kilograms

MT - metric ton

USEPA - United States Environmental Protection Agency

yr - year