Alvarado Specific Plan

Greenhouse Gas Emissions Technical Report

April 2020 | LAM-08

Prepared for:

City of La Mesa
Community Development Department
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Prepared by:

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ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
CAA	Clean Air Act
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emission Estimator Model
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBSC	California Building Standards Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFCs	chlorofluorocarbons
CH_4	methane
City	City of La Mesa
CO_2	carbon dioxide
CO_2e	CO_2-equivalent
EO	Executive Order
EPIC	University of San Diego School of Law, Energy Policy Initiative Center
°F	Fahrenheit (degrees)
FAA	Federal Aviation Administration
GHG	greenhouse gas
GWP	Global Warming Potential
HFCs	hydrofluorocarbons
HVAC	heating, ventilation, and air conditioning
I-8	Interstate 8
IPCC	United Nations Intergovernmental Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LOS	level of service
MMT	million metric tons
mpg	miles per gallon
MPO	Metropolitan Planning Organization
MT	metric ton

ACRONYMS AND ABBREVIATIONS (cont.)

N_2O	nitrous oxide
NASA	National Aeronautics and Space Administration
NHTSA	National Highway Traffic Safety Administration
NOAA	National Oceanic and Atmospheric Administration
NO_X	nitrogen oxides
PFCs	perfluorocarbons
ppm	parts per million
project	Alvarado Specific Plan Project
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCS	Sustainable Communities Strategy
SF	square feet/foot
SF_6	sulfur hexaflouride
Specific Plan	Alvarado Specific Plan
TIS	Traffic Impact Study
TOD	Transportation-Oriented Development
USEPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound

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EXECUTIVE SUMMARY

This report presents an assessment of potential greenhouse gas (GHG) emissions associated with the construction and operation of the Alvarado Specific Plan Project (Specific Plan; project) located in the city of La Mesa. The proposed project is a master development plan for a phased transit-oriented development and associated public improvements. The project would allow development of the site with multi-family residential buildings and local-serving commercial businesses. The project would also include improvements to the Alvarado Creek channel within the project site, improvements to Alvarado Road, relocation of utilities, and pedestrian connection to the 70th Street Trolley Station.

Accounting for construction GHG emissions averaged over a 30 year anticipated lifespan and accounting for the reduction to GHG emissions from the removal of the existing land use (a recreational vehicle resort), the project would result in net GHG emissions per capita (e.g., per project resident) of 2.25 metric tons (MT) of carbon dioxide equivalents (CO_2e) per year, below the target of 3.46 MT CO_2e per capita, developed for the City's Climate Action Plan (CAP). The project would have less a than significant impacted related to the generation GHG emissions.

The project's implementation of a transit-oriented development near the 70th Street Trolley Station would result in reduced vehicle miles traveled (VMT) per capita compared to the regional average and measures included as part of the project are consistent with the goals of the CAP and the San Diego Association of Governments' (SANDAG) regional transportation plan/sustainable communities strategy: *San Diego Forward: The Regional Plan*. The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs and the impact would be less than significant.

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1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report presents an assessment of potential greenhouse gas (GHG) emissions impacts associated with construction and operation of the proposed Alvarado Specific Plan (Specific Plan; project) for a transit-oriented development (TOD) and associated public improvements. The analysis within this report addresses the relevant issues listed in Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

1.2 PROJECT LOCATION

The project is located on an approximately 12-acre site along the south side of Alvarado Road generally between 70th Street on the west and Guava Avenue on the east in the city of La Mesa. The project site is bound by the 70th Street Trolley Station to the west, the Green Line trolley corridor to the south, a car dealership to the east, and Alvarado Road and Interstate 8 (I-8) to the north.(see Figure 1, *Regional Location*, and Figure 2, *Site Location*).

1.3 EXISTING SITE CONDITIONS

The project site is developed and currently contains a recreational vehicle resort used for both transient visitors to the San Diego region, with sites rented on a daily basis, and for longer term stays with sites rented on a monthly basis. The resort consists of 167 concrete-pad recreational vehicle sites, 6 permanent buildings, a swimming pool, paved driveways, landscaping, and three advertising billboards. The channelized Alvarado Creek traverses the property as it flows under Alvarado Road in the eastern portion of the site and continues southwest and west along the southern boundary of the western portion of the site.

1.4 PROJECT DESCRIPTION

The proposed project entails a master development plan (Specific Plan) for a phased TOD and associated public improvements (City of La Mesa 2020). The project would include four development parcels that would be constructed in two phases. Phase 1 includes the parcels west of the intersection of Alvarado Creek and Alvarado Road (Parcels 1-3). Phase 2 includes the parcel east of the intersection of Alvarado Creek and Alvarado Road (Parcel 4). Each parcel would be developed with one or more multi-family residential buildings with potential ground-floor commercial uses.

Phase 1 would feature two multi-family residential buildings built on a podium deck over multi-level parking in the central portion of the site and a smaller-scale building in the western-most parcel. Phase 2 would include one building in the eastern portion of the site similar in size and scale to the two larger buildings constructed in Phase 1. The buildings would include up to five stories of residential units and one to three levels of parking. Each building would include a mix of housing types and sizes. In total, an estimated 850 to 950 residential units would be constructed at buildout. In addition to the residential uses, the project would include ground floor or podium level, resident- serving commercial uses (see Figure 3, *Site Plan Concept*).

1.4.1 Residential Development

The primary land use within the Specific Plan consists of multi-family residential development. The project would develop four multi-family residential buildings. As described above, the project would construct three residential structures (Buildings 2, 3, and 4) with similar construction type and size consisting of multi-level parking structures with residential units above the parking. A smaller-scale building (Building 1) with a similar construction type is proposed on the smaller and narrower western-most parcel (Parcel 1). The proposed buildings would be wood-and metal-frame construction and the parking garages would be concrete.

Building 1 would include five residential levels atop a one-level parking garage. Building 1 would include a total of 60 apartments comprised of a mix of studio, one-bedroom, and two-bedroom units. A patio area would be located above the garage. Sky decks would be provided at the western and eastern ends of the top floor.

Buildings 2, 3, and 4 would include five residential levels on a three-level parking garage with an attached leasing office for each building. Each building would include a mix of studio, one-bedroom, and two-bedroom units. Liner units (i.e., units with direct access to the interior creek side area via a front stoop concept) would be provided on the outside edge of the buildings that front Alvarado Creek. These three buildings would be similar in scale and appearance. Buildings 3 and 4 would each include 305 apartment units. Building 2 would include either 280 apartments or 180 student housing units (in association with San Diego State University).

1.4.2 Commercial Uses

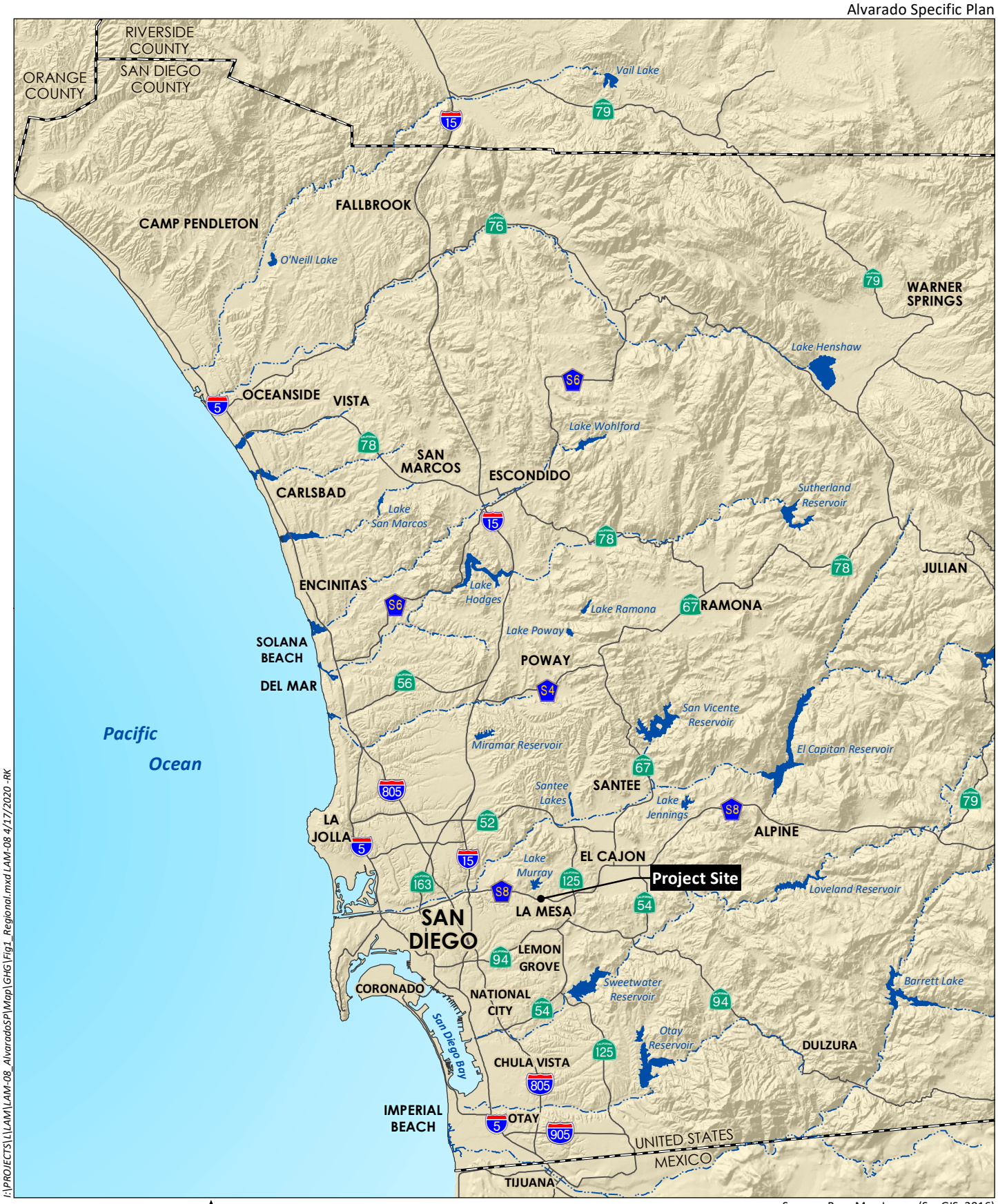
Each proposed building would include space for pedestrian-oriented commercial uses, such as cafes or other small retail establishments. Such uses would be provided primarily to serve residents of the project. Within Building 1, a cafe or other commercial use is proposed in the northeastern portion of the building at the street level. Commercial spaces within Buildings 2, 3, and 4 could be provided at the ground level or podium level.

1.4.3 Alvarado Creek Improvements

Improvements are proposed to the Alvarado Creek channel that traverses the site to control flood and storm water flows within the channel, as well as to enhance the creek as an open space amenity and natural feature. Most sections of the existing trapezoidal concrete-lined banks along the channel would be removed and replaced with retaining walls to increase the width of the channel bottom. The creek would also be enhanced (e.g., removal of non-native plants and debris) and restored with riparian vegetation. The enhanced creek would function as a major open space feature of the project.

1.4.4 Public Improvements

As part of the project, several public improvements would be implemented. Frontage road improvements to Alvarado Road would be provided, including a shared pedestrian/bicycle path, streetlights, a pedestrian bridge over the Alvarado Creek channel, and a pedestrian connection to the adjacent 70th Street Trolley Station. The project would dedicate 4.5 feet of road right-of-way and a 10-foot-wide public access easement along the Alvarado Road frontage to provide for a shoulder, parking lane, curb and gutter, and a shared pedestrian/bicycle path, as well as street-side landscaping.



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Source: Base Map Layers (SanGIS, 2016)

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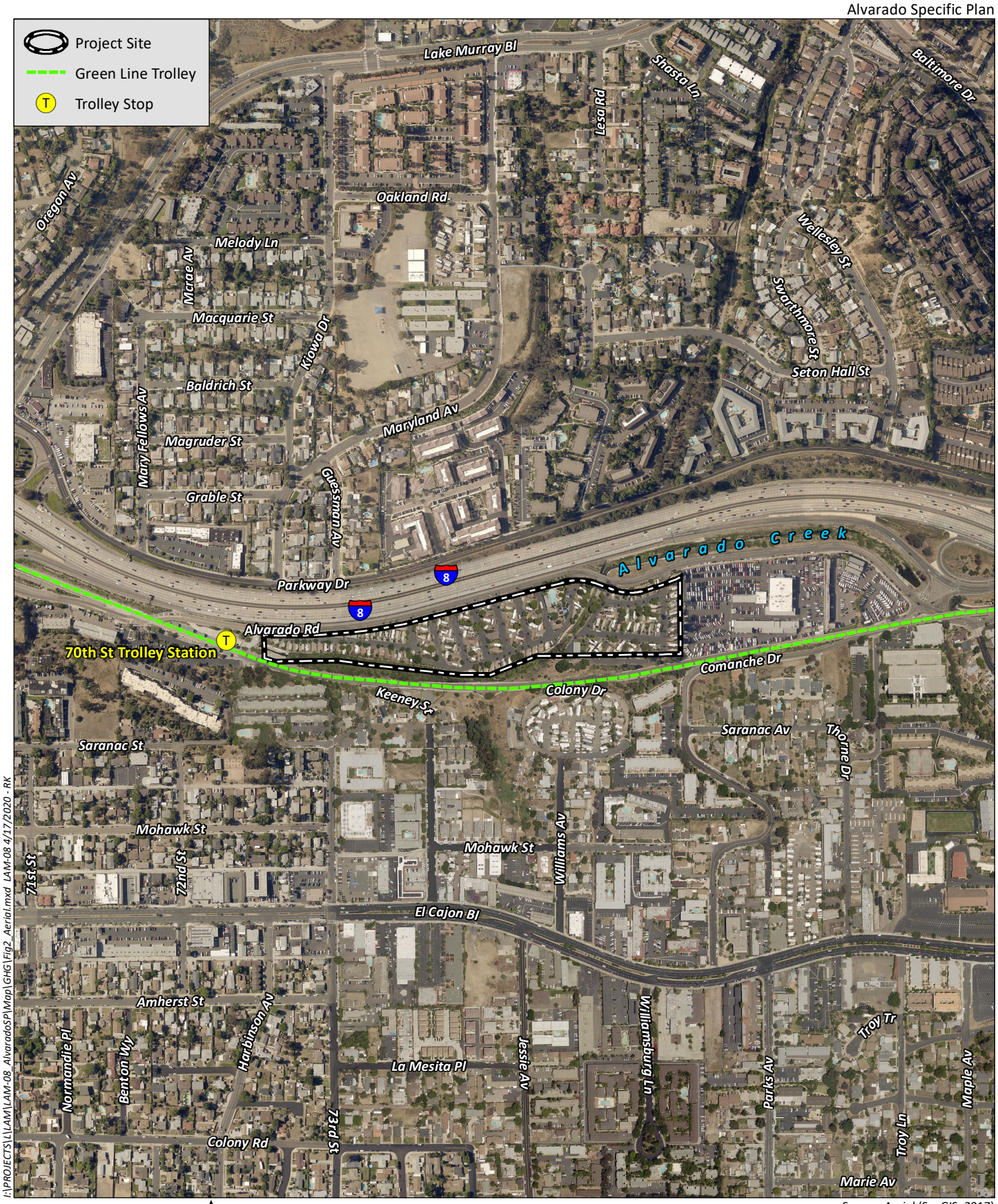
Regional Location

Figure 1



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0 600 Feet

Source: Aerial (SanGIS, 2017)

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Site Location

Figure 2

LEGEND

1. Outdoor courtyard at podium level
2. Pedestrian promenade / Emergency vehicular access (EVA)
3. Gabion retaining wall or similar at creek edge
4. Decorative paving
5. Social node with shade element and synthetic turf area
6. Proposed entry monument
7. Pedestrian sidewalk
8. Parallel parking
9. Palm trees in 5x8 tree grates
10. Proposed vines at existing retaining wall
11. Accent street trees
12. Existing power pole to remain
13. Prefabricated pedestrian bridge
14. Bio-filtration basin
15. Rain event bio-filtration basin
16. Loading zone
17. Future resident parking
18. Vehicular gate
19. Existing creek
20. Existing billboards to remain
21. Public connection to 70th street trolley
22. Private connection to 70th street trolley
23. Building 4 commercial component
24. Building 2 private residential patios
25. Building 1 landscape corridor between buildings
26. Pick up & drop off zone

Source: City of La Mesa 2019

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Site Plan Concept

Figure 3

Additionally, a 15-foot-wide prefabricated pedestrian bridge would be constructed over Alvarado Creek where it crosses under Alvarado Road. The pedestrian bridge would connect to the proposed shared pedestrian/bicycle path on both sides of the creek and provide a pedestrian linkage between the eastern and western portions of the site that are bisected by the creek. At the western end of the project site, a public connection to the adjacent 70th Street Trolley Station would be provided as part of the new shared pedestrian/bicycle path along Alvarado Road.

The existing communications and 12-kilovolt power lines that extend across the site would be relocated underground. These lines currently cross over I-8, the central portion of the site, and up to Keeney Street in a generally north-south alignment. The portion of the overhead utility lines that cross the site would be relocated underground in the western end of the site.

Sewer system improvements are also proposed, including relocating an existing sewer trunk line within Alvarado Creek out of the channel and under the proposed internal access road, removing several abandoned sewer lines in the creek, and raising and capping an existing manhole

1.4.5 Recreation Areas/Public Space

The buildings would include interior amenity facilities and active outdoor spaces on the podium deck levels. Building amenities are anticipated to include clubhouses, pools, and gymnasiums, as well as patios and balconies. Outdoor recreation areas would include a pedestrian promenade, courtyards, public gathering spaces, seating areas, and observation areas (e.g., seating and/or interpretive signage at Alvarado Creek overlook areas). The pedestrian promenade would be located along the interior of the project site and much of it would be adjacent to the enhanced Alvarado Creek.

1.5 PROJECT CONSTRUCTION

As described above, the project would be constructed in two phases. Phase 1 includes the parcels west of the intersection of Alvarado Creek and Alvarado Road (Parcels 1-3). Phase 2 includes the parcel east of the intersection of the Creek and Alvarado Road (Parcel 4). Phase 1 construction is anticipated to commence as early as July 2021 and be completed in approximately 26 months. Phase 1 construction would also include Alvarado Creek improvements and Alvarado Road improvements. The portion of the existing recreation vehicle resort on Parcel 4 would remain in operation during Phase 1 construction. Phase 2 construction would commence at the conclusion of Phase 1 construction and be completed in approximately 20 months. Phase 2 construction would include construction of the pedestrian bridge over Alvarado Creek.

1.6 PROJECT DESIGN FEATURES

1.6.1 Transit Oriented Development

The project proposes a mixed use of high-density multi-family residential and local serving commercial uses. The project is with ½ mile of a major transit (rail) station (the 70th Street Trolley Station) and would provide pedestrian access to the transit station. The project would be considered TOD.

1.6.2 Energy and Water Efficiencies

The project would be designed to meet the California 2019 Title 24 Part 6, building energy efficiency standards, and Part 11, California Green Building (CALGreen) standards, including cool/green roofs, low flow plumbing fixtures and fittings and drought tolerant/water efficient landscaping.

1.6.3 Solid Waste Reduction

The project would divert at least 75 percent of operational waste from landfills through reuse and recycling in accordance with Assembly Bill (AB) 341 and provide areas for storage and collection of recyclables and yard waste in accordance with 2019 Title 24 Part 11 CALGreen Standards.

1.6.4 Bicycle and Pedestrian Facilities

The project would include internal pedestrian paths including a bridge over Alvarado Creek, a new sidewalk on Alvarado Road and a pedestrian connection to the 70th Street Trolley stop. The project would include short-term bicycle parking spaces for visitors and commercial customers, and long-term bicycle storage for residents in accordance with City design standards.

2.0 ENVIRONMENTAL SETTING

2.1 UNDERSTANDING GLOBAL CLIMATE CHANGE

Global climate change refers to changes in average climatic conditions over the entire Earth including temperature, wind patterns, precipitation, and storms. Global temperatures are moderated by naturally occurring atmospheric gases. These gases are commonly referred to as GHGs because they function like a greenhouse by letting light in but preventing heat from escaping, thus warming the Earth's atmosphere. These gases allow solar radiation (sunlight) into the Earth's atmosphere but prevent radiative heat from escaping, thus warming the Earth's atmosphere.

GHGs are emitted by natural processes and human (anthropogenic) activities. Anthropogenic GHG emissions are primarily associated with (1) the burning of fossil fuels during motorized transport, electricity generation, natural gas consumption, industrial activity, manufacturing, and other activities; (2) deforestation; (3) agricultural activity; and (4) solid waste decomposition.

The temperature record shows a decades-long trend of warming, with 2018 ranked as the fourth warmest year on record with an increase of 1.5 degrees Fahrenheit compared to the 1951-1980 average. Globally, 2018's temperatures rank behind the three warmest years on record—2016, 2017 and 2015 (National Aeronautics and Space Administration [NASA] 2019). GHG emissions from human activities are the most significant driver of observed climate change since the mid-20th century (United Nations Intergovernmental Panel on Climate Change [IPCC] 2013). The IPCC constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. The statistical models show a "high confidence" that temperature increase caused by anthropogenic GHG emissions could be kept to less than two degrees Celsius relative to pre-industrial levels if atmospheric concentrations are stabilized at about 450 parts per million (ppm) carbon dioxide equivalent (CO_2e) by the year 2100 (IPCC 2014).

2.2 GREENHOUSE GASES OF PRIMARY CONCERN

The GHGs, as defined under California's AB 32, include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Carbon Dioxide. CO_2 is the most important and common anthropogenic GHG. CO_2 is an odorless, colorless GHG. Natural sources include the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungi; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of CO_2 include burning fuels, such as coal, oil, natural gas, and wood. Data from ice cores indicate that CO_2 concentrations remained steady prior to the current period for approximately 10,000 years. The atmospheric CO_2 concentration in 2010 was 390 ppm, 39 percent above the concentration at the start of the Industrial Revolution (about 280 ppm in 1750). As of January 2020, the CO_2 concentration exceeded 412 ppm (National Oceanic and Atmospheric Administration [NOAA] 2020).

Methane. CH_4 is the main component of natural gas used in homes. A natural source of methane is from the decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from decay of organic material in landfills, fermentation of manure, and cattle digestion.

Nitrous Oxide. N_2O is produced by both natural and human-related sources. N_2O is emitted during agricultural and industrial activities, as well as during the combustion of fossil fuels and solid waste. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuel, adipic (fatty) acid production, and nitric acid production.

Hydrofluorocarbons. Fluorocarbons are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. Chlorofluorocarbons are nontoxic, nonflammable, insoluble, and chemically nonreactive in the troposphere (the level of air at Earth's surface). Chlorofluorocarbons were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone; therefore, their production was stopped as required by the 1989 Montreal Protocol.

Sulfur Hexafluoride. SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.

GHGs have long atmospheric lifetimes that range from one year to several thousand years. Long atmospheric lifetimes allow for GHG emissions to disperse around the globe. Because GHG emissions vary widely in the power of their climatic effects, climate scientists have established a unit called global warming potential (GWP). The GWP of a gas is a measure of both potency and lifespan in the atmosphere as compared to CO_2. For example, because methane and N_2O are approximately 25 and 298 times more powerful than CO_2, respectively, in their ability to trap heat in the atmosphere, they have GWPs of 25 and 298, respectively (CO_2 has a GWP of 1). CO_2e is a quantity that enables all GHG emissions to be considered as a group despite their varying GWP. The GWP of each GHG is multiplied by the prevalence of that gas to produce CO_2e.

Historically, GHG emission inventories have been calculated using the GWPs from the IPCC's Second Assessment Report (SAR). In 2007, IPCC updated the GWP values based on the latest science at the time

in its Fourth Assessment Report (AR4). The updated GWPs in the IPCC AR4 have begun to be used in recent GHG emissions inventories. In 2013, IPCC again updated the GWP values based on the latest science in its Fifth Assessment Report (AR5) (IPCC 2013). However, United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines for national inventories require the use of GWP values from the AR4. To comply with international reporting standards under the UNFCCC, official emission estimates for California and the U.S. are reported using AR4 GWP values. Therefore, statewide and national GHG inventories have not yet updated their GWP values to the AR5 values. By applying the GWP ratios, project related CO_2e emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of CO_2 over a 100-year period is used as a baseline. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 1, *Global Warming Potentials and Atmospheric Lifetimes*.

Table 1
GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES

Greenhouse Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)
Carbon Dioxide (CO_2)	50-200	1
Methane (CH_4)	12	25
Nitrous Oxide (N_2O)	114	298
HFC-324a	14	1,430
PFC: Tetrafluoromethane (CF_4)	50,000	7,390
PFC: Hexafluoroethane (C_2F_6)	10,000	12,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

Source: IPCC 2007
HFC: hydrofluorocarbon; PFC: perfluorocarbon

2.3 WORLDWIDE AND NATIONAL GHG INVENTORY

In 2014, total GHG emissions worldwide were estimated at 48,892 million metric tons (MMT) of CO_2e emissions (World Resource Institute [WRI] 2020). The U.S. contributed the second largest portion (13 percent) of global GHG emissions in 2014. The total U.S. GHG emissions was 6,319 MMT CO_2e in 2019, of which 82 percent was CO_2 emission (WRI 2020). On a national level, approximately 27 percent of GHG emissions were associated with transportation and about 38 percent were associated with electricity generation (WRI 2020).

2.4 STATE GHG INVENTORIES

The California Air Resource Board (CARB) performed statewide inventories for the years 1990 to 2017, as shown in Table 2, *California State Greenhouse Gas Emissions by Sector*. The inventory is divided into six broad sectors of economic activity: agriculture, commercial, electricity generation, industrial, residential, and transportation. Emissions are quantified in MMT CO_2e.

As shown in Table 2, statewide GHG source emissions totaled 431 MMT CO_2e in 1990, 471 MMT CO_2e in 2000, 449 MMT CO_2e in 2010, and 424 MMT CO_2e in 2017. Transportation-related emissions consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions.

Table 2
CALIFORNIA GREENHOUSE GAS EMISSIONS BY SECTOR

Sector	Emissions (MMT CO_2e)			
	1990	2000	2010	2017
Agriculture and Forestry	18.9 (4%)	31.0 (7%)	33.7 (8%)	32.4 (8%)
Commercial	14.4 (3%)	14.1 (3%)	20.1 (4%)	23.3 (5%)
Electricity Generation	110.5 (26%)	105.4 (22%)	90.6 (20%)	62.6 (15%)
Industrial	105.3 (24%)	105.8 (22%)	101.8 (23%)	101.1 (24%)
Residential	29.7 (7%)	31.7 (7%)	32.1 (7%)	30.4 (7%)
Transportation	150.6 (35%)	183.2 (39%)	170.2 (38%)	174.3 (41%)
Unspecified Remaining	1.3 (<1%)	0.0 (0%)	0.0 (0%)	0.0 (0%)
TOTAL	**430.7**	**471.1**	**448.5**	**424.1**

Source: CARB 2007 and CARB 2019
MMT = million metric tons; CO_2e = carbon dioxide equivalent

2.5 REGIONAL GHG INVENTORY

A San Diego regional emissions inventory that was prepared by the University of San Diego School of Law, Energy Policy Initiative Center (EPIC) accounted for the unique characteristics of the region (EPIC 2017). Its 2014 emissions inventory update for San Diego is presented in Table 3, *San Diego County GHG Emissions by Sector in 2014*. The sectors included in this inventory are somewhat different from those in the statewide inventory. Similar to the statewide emissions, transportation related GHG emissions contributed the most countywide, followed by emissions associated with energy use.

Table 3
SAN DIEGO COUNTY GHG EMISSIONS BY SECTOR IN 2014

Sector	2014 Emissions MMT CO_2e (% total)[1]
On-Road Transportation	1.46 (45%)
Electricity	0.76 (24%)
Solid Waste	0.34 (11%)
Natural Gas Consumption	0.29 (9%)
Agriculture	0.16 (5%)
Water	0.13 (4%)
Off-Road Transportation	0.04 (1%)
Wastewater	0.02 (1%)
Propane	0.01 (<0.5%)
TOTAL	**3.21**

Source: EPIC 2017.
[1] Percentages may not total 100 due to rounding.
MMT = million metric tons; CO_2e = carbon dioxide equivalent

2.6 ON-SITE GHG INVENTORY

The project site is currently developed and with a recreational vehicle resort consisting of 167 concrete-pad recreational vehicle sites, 6 permanent buildings and a swimming pool. Existing sources of GHG emissions are from vehicle emissions associated with customers, employees, and vendors driving to and from the resort; emissions resulting from energy (i.e., electricity and natural gas) used in resort

operation; emissions resulting from the disposal of solid waste; emissions from the energy required for the sourcing, conveyance and treatment of water and wastewater; and emissions from maintenance and landscaping activities. The existing on-site GHG emissions inventory was calculated using the California Emissions Estimator Model (CalEEMod), described in Section 4.1, below. The estimated existing land use GHG emissions are shown in Table 4, *Estimated Existing GHG Land Use GHG Emissions*.

Table 4
ESTIMATED EXISTING LAND USE GHG EMISSIONS

Emission Sources	Emissions (MT CO_2e/year)
Area (e.g., painting and consumer products)	1.6 (<0.1%)
Energy (i.e., electricity and natural gas use)	389.4 (40.0%)
Vehicular (Mobile)	484.4 (49.8%)
Solid Waste	29.8 (3.1%)
Water and Wastewater	66.6 (7.0%)
TOTAL	**971.9**

Source: CalEEMod, output data is provided in Appendix A.
Notes: Totals may not sum due to rounding.
MT = metric ton; CO_2e = carbon dioxide equivalent

3.0 REGULATORY SETTING

All levels of government have some responsibility for the protection of air quality, and each level (federal, State, and regional/local) has specific responsibilities relating to air quality regulation. GHG emissions and the regulation of GHGs is a relatively new component of air quality.

3.1 FEDERAL

3.1.1 Federal Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency* (USEPA*)* that CO_2 is an air pollutant, as defined under the Clean Air Act (CAA), and that the USEPA has the authority to regulate emissions of GHGs. The USEPA announced that GHGs (including CO_2, CH_4, N_2O, HFC, PFC, and SF_6) threaten the public health and welfare of the American people. This action was a prerequisite to finalizing the USEPA's GHG emissions standards for light-duty vehicles, which were jointly proposed by the USEPA and the United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA). The standards were established on April 1, 2010 for 2012 through 2016 model year vehicles and on October 15, 2012 for 2017 through 2025 model year vehicles (USEPA 2017; USEPA and NHTSA 2012).

3.1.2 Light-Duty Vehicle Greenhouse Gas Emissions Standards and Corporate Average Fuel Economy Standards

The USEPA and the NHTSA worked together on developing a national program of regulations to reduce GHG emissions and to improve fuel economy of light-duty vehicles. On April 1, 2010, the USEPA and NHTSA announced a joint Final Rulemaking that established standards for 2012 through 2016 model year vehicles. This was followed up on October 15, 2012, when the agencies issued a Final Rulemaking

with standards for model years 2017 through 2025. On August 2, 2018, the agencies released a notice of proposed rulemaking—the Safer Affordable Fuel-Efficient Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks (SAFE Vehicles Rule). The purpose of the SAFE Vehicles Rule is "to correct the national automobile fuel economy and greenhouse gas emissions standards to give the American people greater access to safer, more affordable vehicles that are cleaner for the environment (USEPA 2018)." The direct effect of the rule is to eliminate the standards that were put in place to gradually raise average fuel economy for passenger cars and light trucks under test conditions from 37 miles per gallon in 2020, to 50 miles per gallon in 2025. By contrast, the new SAFE Vehicles Rule freezes the average fuel economy level standards indefinitely at the 2020 levels. The new SAFE Vehicles Rule also results in the withdrawal of the waiver previously provided to California for that State's GHG and zero emissions vehicle (ZEV) programs under section 209 of the CAA. The combined USEPA GHG emission standards and NHTSA Corporate Average Fuel Economy (CAFE) standards resolve previously conflicting requirements under both federal programs and the standards of the State of California and other states that have adopted the California standards (USEPA 2017; USEPA and NHTSA 2012).

3.2 CALIFORNIA GREENHOUSE GAS REGULATIONS

There are numerous State plans, policies, regulations, and laws related to GHG emissions and global climate change. Following is a discussion of some of these plans, policies, and regulations that (1) establish overall State policies and GHG emission reduction targets; (2) require State or local actions that result in direct or indirect GHG emission reductions for the proposed project; and (3) require CEQA analysis of GHG emissions.

3.2.1 California Energy Code

California Code of Regulations (CCR) Title 24 Part 6, *California's Energy Efficiency Standards for Residential and Nonresidential Buildings*, were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for water heating) results in GHG emissions.

The Title 24 standards are updated approximately every three years to allow consideration and possible incorporation of new energy efficiency technologies and methods. The 2019 Title 24 standards went into effect on January 1, 2020. The 2019 update to the Building Energy Efficiency Standards focuses on several key areas to improve the energy efficiency of newly constructed buildings and additions and alterations to existing buildings. The most significant efficiency improvements to the residential standards is a requirement for onsite photovoltaic electricity generation (e.g., solar panels) for most new or modified residential building up to three stories high. The project proposes five story residential building and the solar panel requirement would not apply to the project.

The standards are divided into three basic sets. First, there is a basic set of mandatory requirements that apply to all buildings. Second, there is a set of performance standards – the energy budgets – that vary by climate zone (of which there are 16 in California) and building type; thus, the standards are tailored to local conditions. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that are basically a recipe or a checklist compliance approach. Future development per the proposed project would be required to be designed to meet the current Title 24 energy efficiency standards.

3.2.2 California Green Building Standards Code

The California Green Building Standards Code (CALGreen; CCR Title 24, Part 11) is a code with mandatory requirements for new residential and nonresidential buildings (including industrial buildings) throughout California. The code is Part 11 of the California Building Standards Code in Title 24 of the CCR (CBSC 2019). The 2019 Standards went into effect on January 1, 2020.

The development of CALGreen is intended to (1) cause a reduction in GHG emissions from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water consumption; and (4) respond to the directives by the Governor. In short, the code is established to reduce construction waste; make buildings more efficient in the use of materials and energy; and reduce environmental impact during and after construction.

CALGreen contains requirements for storm water control during construction; construction waste reduction; indoor water use reduction; material selection; natural resource conservation; site irrigation conservation; and more. The code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for the verification that all building systems, like heating and cooling equipment and lighting systems, are functioning at their maximum efficiency.

3.2.3 Executive Order S-3-05

On June 1, 2005, Executive Order (EO) S-3-05 proclaimed that California is vulnerable to climate change impacts. It declared that increased temperatures could reduce snowpack in the Sierra Nevada, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To avoid or reduce climate change impacts, EO S-3-05 calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

3.2.4 Assembly Bill 32 – Global Warming Solution Act of 2006

The California Global Warming Solutions Act of 2006, widely known as AB 32, requires that CARB develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB is directed to set a GHG emission limit, based on 1990 levels, to be achieved by 2020. The bill requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG emission reductions.

3.2.5 Senate Bill 375

Senate Bill (SB) 375, the Sustainable Communities and Climate Protection Act of 2008, supports the State's climate action goals to reduce GHG emissions through coordinated transportation and land use planning with the goal of more sustainable communities.

Under the Sustainable Communities Act, CARB sets regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established these targets for 2020 and 2035 for each region covered by one of the State's metropolitan planning organizations (MPOs). CARB periodically reviews and updates the targets, as needed.

Each of California's MPOs must prepare a Sustainable Communities Strategy (SCS) as an integral part of its regional transportation plan (RTP). The SCS contains land use, housing, and transportation strategies

that, if implemented, would allow the region to meet its GHG emission reduction targets. Once adopted by the MPO, the RTP/SCS guides the transportation policies and investments for the region. CARB must review the adopted SCS to confirm and accept the MPO's determination that the SCS, if implemented, would meet the regional GHG targets. If the combination of measures in the SCS would not meet the regional targets, the MPO must prepare a separate alternative planning strategy (APS) to meet the targets. The APS is not a part of the RTP. Qualified projects consistent with an approved SCS or Alternative Planning Strategy categorized as "transit priority projects" would receive incentives to streamline CEQA processing.

The San Diego Association of Governments (SANDAG) is San Diego's local MPO and has responded to the requirements of SB 375 with the preparation of a regional transportation plan/sustainable communities strategy. *San Diego Forward: The Regional Plan* (SANDAG 2015) is discussed in greater detail in Section 3.3.1, below.

3.2.6 Senate Bill 743

On September 27, 2013, California Governor Jerry Brown signed SB 743 into law and started a process that changes transportation impact analysis as part of CEQA compliance. These changes include the elimination of auto delay, level of service (LOS), and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant impacts for land use projects and plans in California. Further, parking impacts will not be considered significant impacts on the environment for select development projects within infill areas with nearby frequent transit service. According to the legislative intent contained in SB 743, these changes to current practice were necessary to more appropriately balance the needs of congestion management with statewide goals related to infill development, promotion of public health through active transportation, and reduction of GHG emissions.

3.2.7 Senate Bill 97

SB 97 required the Governor's Office of Planning and Research to develop recommended amendments to the State CEQA Guidelines for addressing GHG emissions, including the effects associated with transportation and energy consumption. The amendments became effective on March 18, 2010.

3.2.8 Executive Order B-30-15

On April 29, 2015, EO B-30-15 established a California GHG emission reduction target of 40 percent below 1990 levels by 2030. The EO aligns California's GHG emission reduction targets with those of leading international governments, including the 28 nation European Union. California is on track to meet or exceed the target of reducing GHG emissions to 1990 levels by 2020, as established in AB 32. California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the goal established by EO S-3-05 of reducing emissions 80 percent under 1990 levels by 2050.

3.2.9 Senate Bill 32 and Assembly Bill 197

As a follow-up to AB 32 and in response to EO-B-30-15, SB 32 was passed by the California legislature in August 2016 to codify the EO's California GHG emission reduction target of 40 percent below 1990 levels by 2030 and requires the State to invest in the communities most affected by climate change. AB 197

establishes a legislative committee on climate change policies to help continue the State's activities to reduce GHG emissions.

3.2.10 Assembly Bill 1493 – Vehicular Emissions of Greenhouse Gases

AB 1493 (Pavley) requires that CARB develop and adopt regulations that achieve "the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty truck and other vehicles determined by CARB to be vehicles whose primary use is noncommercial personal transportation in the State." On September 24, 2009, CARB adopted amendments to the Pavley regulations that intend to reduce GHG emissions in new passenger vehicles from 2009 through 2016. The amendments bind California's enforcement of AB 1493 (starting in 2009), while providing vehicle manufacturers with new compliance flexibility. The amendments also prepare California to merge its rules with the federal CAFE rules for passenger vehicles (CARB 2017a). In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single packet of standards called Advanced Clean Cars (CARB 2017a).

3.2.11 Assembly Bill 341

The State legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the solid waste diversion target to 75 percent statewide. AB 341 requires all businesses and public entities that generate 4 cubic yards or more of waste per week to have a recycling program in place. The final regulation was approved by the Office of Administrative Law on May 7, 2012 and went into effect on July 1, 2012.

3.2.12 Executive Order S-01-07 – Low Carbon Fuel Standard

This EO, signed by Governor Schwarzenegger on January 18, 2007, directs that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by the year 2020. It orders that a Low Carbon Fuel Standard (LCFS) for transportation fuels be established for California and directs CARB to determine whether a LCFS can be adopted as a discrete early action measure pursuant to AB 32. CARB approved the LCFS as a discrete early action item with a regulation adopted and implemented in April 2010. Although challenged in 2011, the Ninth Circuit reversed the District Court's opinion and rejected arguments that implementing LCFS violates the interstate commerce clause in September 2013. CARB is therefore continuing to implement the LCFS statewide.

3.2.13 Senate Bill 350

Approved by Governor Brown on October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard eligible resources, including solar, wind, biomass, and geothermal. In addition, large utilities are required to develop and submit Integrated Resource Plans to detail how each entity will meet their customers resource needs, reduce GHG emissions, and increase the use of clean energy.

3.2.14 Senate Bill 100

Approved by Governor Brown on September 10, 2018, SB 100 extends the renewable electricity procurement goals and requirements of SB 350. SB 100 requires that all retail sale of electricity to California end-use customers be procured from 100 percent eligible renewable energy resources and zero-carbon resources by the end of 2045.

3.2.15 California Air Resources Board: Climate Change Scoping Plan

On December 11, 2008, CARB adopted the Scoping Plan (CARB 2008) as directed by AB 32. The Scoping Plan proposes a set of actions designed to reduce overall GHG emissions in California to the levels required by AB 32. Measures applicable to development projects include those related to energy-efficiency building and appliance standards, the use of renewable sources for electricity generation, regional transportation targets, and green building strategy. Relative to transportation, the Scoping Plan includes nine measures or recommended actions related to reducing vehicle miles traveled (VMT) and vehicle GHG emissions through fuel and efficiency measures. These measures would be implemented statewide rather than on a project by project basis.

In response to EO B-30-15 and SB 32, all state agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the Scoping Plan to reflect the 2030 target (CARB 2014). The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue driving down emissions. In December 2017, CARB adopted the *2017 Climate Change Scoping Plan Update, the Strategy for Achieving California's 2030 Greenhouse Gas Target,* to reflect the 2030 target set by EO B-30-15 and codified by SB 32 (CARB 2017b).

3.3 LOCAL

3.3.1 San Diego Association of Government's Regional Plan

San Diego Forward: The Regional Plan (Regional Plan; SANDAG 2015) is the long-range planning document developed to address the region's housing, economic, transportation, environmental, and overall quality-of-life needs. The underlying purpose is to provide direction and guidance on future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region as stipulated under SB 375. The Regional Plan establishes a planning framework and implementation actions that increase the region's sustainability and encourage "smart growth while preserving natural resources and limiting urban sprawl." The Regional Plan encourages local jurisdictions including the County of San Diego (County) to increase residential and employment concentrations in areas with the best existing and future transit connections, and to preserve important open spaces. The focus is on implementation of basic smart growth principles designed to strengthen the integration of land use and transportation. General urban form goals, policies, and objectives are summarized as follows:

- Mix compatible uses.
- Take advantage of compact building design.
- Create a range of housing opportunities and choices.

- Create walkable neighborhoods.
- Foster distinctive, attractive communities with a strong sense of place.
- Preserve open space, natural beauty, and critical environmental areas.
- Strengthen and direct development towards existing communities.
- Provide a variety of transportation choices.
- Make development decisions predictable, fair, and cost-effective.
- Encourage community and stakeholder collaboration in development decisions.

The Regional Plan also addresses border issues, providing an important guideline for communities that have borders with Mexico. In this case, the goal is to create a regional community where San Diego, its neighboring counties, tribal governments, and northern Baja California mutually benefit from San Diego's varied resources and international location.

3.3.2 City of La Mesa Climate Action Plan

The City of La Mesa (City) Climate Action Plan (CAP) was adopted in March 2018. The CAP describes the 2010 GHG emissions baseline and forecasted emissions for 2020 and 2035, and identifies achievable, measurable strategies and actions for the City to implement to reduce emissions to 15 percent below 2010 levels by 2020 and 53 percent below 2010 levels by 2035 (City of La Mesa 2018). These CAP reduction goals were designed to enable the City to meet the 2020 GHG reduction mandates of AB 32, the 2030 GHG reduction mandates SB 32, and to be on-track to meet the 2050 of EO-S-3-05 goal of GHG emissions 80 percent below 1990 levels by 2050. The CAP contains reduction measures within the City's direct influence to achieve the City's 2020 and 2035 GHG reduction targets in five strategy areas: energy; transportation and land use; water; solid waste; and green infrastructure (City of La Mesa 2018).

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.1 METHODOLOGY

The project's GHG emissions were calculated using the CalEEMod, Version 2016.3.2. CalEEMod is a computer model used to estimate air emissions resulting from land development projects throughout the state of California. CalEEMod was developed by CAPCOA in collaboration with the California air quality management and pollution control districts, primarily the South Coast Air Quality Management District (SCAQMD). The calculation methodology, source of emission factors used, and default data is described in the CalEEMod User's Guide, Appendices A, D, and E (CAPCOA 2017).

In brief, CalEEMod is a computer model that estimates criteria air pollutant and greenhouse gas emissions from mobile (i.e., vehicular) sources, area sources (fireplaces, woodstoves, and landscape maintenance equipment), energy use (electricity and natural gas used in space heating, ventilation, and cooling; lighting; and plug-in appliances), water use and wastewater generation, and solid waste disposal. Emissions are estimated based on land use information input to the model by the user.

In the first module, the user defines the specific land uses that will occur at the project site. The user also selects the appropriate land use setting (urban or rural), operational year, location, climate zone, and utility provider. The input land uses, size features, and population are used throughout CalEEMod in determining default variables and calculations in each of the subsequent modules. The input land use information consists of land use subtypes (such as the residential subtypes of single-family residential and multi-family medium-rise residential) and their unit or square footage quantities. For the project, the residential buildings were modeled as high-rise apartments with 950 dwelling units (DU). The commercial space allowed in the Specific Plan was included in the modeling, assuming a maximum of 15,000 square feet.

Subsequent modules include construction (including off-road vehicle emissions), mobile (on-road vehicle emissions), area sources (woodstoves, fireplaces, consumer products [cleansers, aerosols, solvents], landscape maintenance equipment, architectural coatings), water and wastewater, and solid waste. Each module comprises multiple components including an associated mitigation module to account for further reductions in the reported baseline calculations. Other inputs include trip generation rates, trip lengths, vehicle fleet mix (percentage autos, medium truck, etc.), trip distribution (i.e., percent work to home, etc.), duration of construction phases, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters.

In various places the user can input additional information and/or override the default assumptions to account for project- or location-specific parameters. For this assessment the default parameters were not changed unless otherwise noted. The CalEEMod output files for the project are included in Appendix A to this report.

4.1.1 Construction Emissions

Based on a conservative estimate (earliest and highest intensity of construction activities) of the project construction timeline, Phase 1 construction is assumed to begin July 2021 and be completed by September 2023, for a total construction period of 26 months. Phase 2 construction is assumed to begin September 2023 and be completed by May 2025, for a total construction period of 20 months. The actual construction period may differ based on market conditions. The quantity, duration, and intensity of construction activity influence the amount of construction emissions and related pollutant concentrations that occur at any one time. As such, the emission forecasts provided herein reflect a specific set of conservative assumptions based on the expected construction scenario wherein a relatively large amount of construction activity is occurring in a relatively intensive manner. Because of this conservative assumption, actual emissions could be less than those forecasted. If construction is delayed or occurs over a longer time period, emissions could be reduced because of (1) a more modern and cleaner-burning construction equipment fleet mix than incorporated in CalEEMod, and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval).

Construction activities would include demolition, site preparation, grading and installation of underground utilities, paving, construction of structures, and architectural coating (e.g., painting). Improvement to the Alvarado Creek channel and Alvarado Road are assumed to occurring during the grading and utilities phase. During Phase 1 site preparation, an export of approximately 6,500 cubic yards of vegetation/soil and old concrete/asphalt is anticipated. During Phase 1 grading/utilities, an export of approximately 2,000 cubic yards of soil is anticipated for underground utilities and creek channel improvements. During Phase 2 site preparation, an export of approximately 3,060 cubic yards of vegetation/soil and old concrete/asphalt is anticipated. During Phase 2 grading/utilities, an export of

approximately 1,000 cubic yards of soil for underground utilities is anticipated. All other Phase 1 and Phase 2 grading and excavation cut and fill activities are assumed to balanced onsite (e.g., no import or export of soil).

Construction would require heavy equipment during demolition, site preparation, grading/excavation, building construction, and paving. Construction equipment estimates are based on default values in CalEEMod, Version 2016.3.2 with additional equipment added for excavation for underground utilities and creek channel improvements, based on assumptions used for similar projects. Table 5, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each stage of construction.

Table 5
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Phase	Equipment	Number
Phase 1		
Demolition	Concrete/Industrial Saws	1
	Excavators	2
	Rubber Tired Dozers	1
Site Preparation	Excavators	1
	Rubber Tired Dozers	2
	Rubber Tired Loaders	1
	Tractors/Loaders/Backhoes	2
Grading/Utilities	Excavators	2
	Graders	1
	Rubber Tired Dozers	1
	Scrapers	2
	Tractors/Loaders/Backhoes	2
Paving	Pavers	2
	Paving Equipment	2
	Rollers	2
Building Construction	Cranes	1
	Forklifts	3
	Generator Sets	1
	Tractors/Loaders/Backhoes	3
	Welders	1
Architectural Coating	Air Compressors	1
Phase 2		
Demolition	Concrete/Industrial Saws	1
	Excavators	1
	Rubber Tired Dozers	1
Site Preparation	Excavators	1
	Rubber Tired Dozers	1
	Rubber Tired Loaders	1
	Tractors/Loaders/Backhoes	1

Table 5 (cont.)
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Phase	Equipment	Number
Grading/Utilities	Excavators	1
	Graders	1
	Rubber Tired Dozers	1
	Tractors/Loaders/Backhoes	3
Paving	Cement and Mortar Mixers	2
	Pavers	1
	Paving Equipment	2
	Rollers	2
	Tractors/Loaders/Backhoes	1
Building Construction	Cranes	1
	Forklifts	3
	Generator Sets	1
	Tractors/Loaders/Backhoes	3
	Welders	1
Architectural Coating	Air Compressors	1

Source: CalEEMod (output data, including equipment horsepower, is provided in Appendix A)

The construction schedule was determined by using CalEEMod defaults and standard assumptions for similarly sized projects, taking into consideration the features of the project and the overall estimated construction schedule from the project developers. Architectural coating is assumed to occur concurrently with the last half of building construction. The construction schedule assumed in the modeling is shown in Table 6, *Anticipated Construction Schedule*.

Table 6
ANTICIPATED CONSTRUCTION SCHEDULE

Construction Activity	Construction Period		
	Start	End	Number of Working Days
Phase 1			
Demolition	7/1/2021	7/14/2021	10
Site Preparation	7/15/2021	9/22/2021	50
Grading/Utilities	9/23/2021	1/31/2022	93
Paving	2/1/2022	2/28/2022	20
Building Construction	3/1/2022	8/31/2023	393
Architectural Coating	12/1/2022	8/31/2023	196
Phase 2			
Demolition	9/1/2023	9/14/2023	10
Site Preparation	9/15/2023	11/23/2023	50
Grading/Utilities	11/24/2023	4/2/2024	93
Paving	4/3/2024	4/30/2024	20
Building Construction	5/1/2024	4/30/2025	261
Architectural Coating	10/31/2024	4/30/2025	130

Source: CalEEMod (output data is provided in Appendix A)

4.1.2 Operational Emissions

4.1.2.1 Area Source Emissions

This CalEEMod module estimates the GHG emissions that would occur from the use of hearths (e.g., wood or gas fireplaces and wood stoves), and landscaping equipment. This module also estimates emissions due to use of consumer products and architectural coatings that have volatile organic compounds (VOCs); however, these sources do not emit GHGs. The project would not include wood burning fireplace or woodstove, the modeling assumed only natural gas hearths.

The use of landscape equipment emits GHGs associated with the equipment's fuel combustion. CalEEMod estimates the number and type of equipment needed based on the number of summer days given the project's location as entered in the project characteristics module. The model defaults for landscaping equipment were assumed.

4.1.2.2 Vehicular (Mobile) Sources

Operational emissions from mobile source emissions are associated with project-related vehicle trip generation and trip length. Based on the trip generation rate from the Traffic Impact Study (TIS) prepared for the project, the project would generate 5,415 average daily trips and the existing land use generates 668 average daily trips for a net increase of 4,747 average daily trips. The TIS also analyzed the project's VMT and determined that each trip would have an average distance of 4.83 miles (Kimley Horn 2020). All CalEEMod default trip rates, purposes and distances were replaced by the project specific trip data from the TIS.

4.1.2.3 Energy Sources

GHGs are emitted as a result of activities in buildings for which electricity and natural gas are used as energy sources. GHGs are generated during the generation of electricity from fossil fuels off-site in power plants. These emissions are considered indirect and are calculated in CalEEMod as associated with a building's operation.

CalEEMod default energy values are based on the CEC-sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies, which identify energy use by building type and climate zone. Each land use type input to the land use module is mapped in the energy module to the appropriate CEUS and RASS building type. Because these studies are based on older buildings, adjustments have been made in CalEEMod to account for changes to Title 24 building codes. The default adjustment is to the 2016 Title 24 energy code (part 6 of the building code).

4.1.3 Solid Waste Sources

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. CalEEMod determines the GHG emissions associated with disposal of solid waste into landfills. Portions of these emissions are biogenic. CalEEMod methods for quantifying GHG emissions from solid waste are based on the IPCC method using the degradable organic content of waste. Existing land use GHG emissions associated with waste disposal were all calculated using CalEEMod's default parameters. A conservative 25 percent solid waste diversion rate was applied in CalEEMod to the new construction and redevelopment that would occur to account for mandatory compliance with AB 341.

4.1.4 Water and Wastewater Sources

The amount of water used, and wastewater generated, by a project has indirect GHG emissions associated with it. These emissions are a result of the energy used to supply, distribute, and treat the water and wastewater. In addition to the indirect GHG emissions associated with energy use, wastewater treatment can directly emit both methane and nitrous oxide.

CalEEMod uses default electricity intensity values for various phases of supplying and treating water from CEC's *Refining Estimates of Water-Related Energy Use in California*. The model estimates water/wastewater emissions by multiplying the total projected water/wastewater demand by the applicable water electricity intensities and by the utility intensity GHG factors.

The default CalEEMod water use assumptions were used for the GHG emissions estimates for existing land uses and operation of the project. For the project's water and wastewater GHG emissions, an overall 20 percent reduction in water use was applied in the CalEEMod mitigation section to account for recent requirements of CALGreen.

4.2 GUIDELINES FOR THE DETERMINATION OF SIGNIFICANCE

Thresholds used to evaluate potential GHG impacts are based on applicable criteria in the State's CEQA Guidelines Appendix G. A significant GHG impact could occur if the implementation of the project would:

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

2. Conflict with the City's CAP or another applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

To determine whether the project would result in emissions that may have a significant impact on the environment, the project's GHG emissions were compared to the GHG emissions efficiency threshold of 3.46 MT CO_2e per capita by the year 2035 selected as a target by the City for GHG reductions in the CAP (City of La Mesa 2018). This target was developed to meet the statewide GHG emissions reduction target of 40 percent below 1990 levels by 2030 and be on track to meet the 80 percent below 1990 levels by 2050 target in accordance with SB 32 and EO S-3-05.

A 2035 target value between the 2030 and 2050 state reduction targets would require GHG reductions of 50 percent below 1990 levels. A 50 percent reduction below 1990 levels is equivalent to a 53 percent reduction below 2010 levels. A 53 percent reduction below La Mesa's 2010 baseline of 7.37 MT CO_2e per capita would be 3.46 MT CO_2e per capita (City of La Mesa 2018).

5.0 GHG EMISSIONS IMPACT ANALYSIS

5.1 ISSUE 1: GENERATE DIRECT OR INDIRECT GHG EMISSIONS THAT MAY HAVE A SIGNIFICANT IMPACT ON THE ENVIRONMENT

5.1.1 Construction Emissions

Project construction GHG emissions were estimated using CalEEMod as described in Section 4.1. Emissions of GHGs related to the construction of the project would be temporary. As shown in Table 7, *Construction GHG Emissions*, the total estimated GHG emissions associated with construction of the project would be approximately 3,679 MT CO_2e. Neither the SDAPCD nor the City have adopted thresholds for determining the significance of a project's temporary construction GHG emissions. To be conservative in accounting for all the project's GHG emissions, the construction period emissions were amortized (i.e., averaged) over the anticipated 30-year lifespan of the project buildings and added to the project's operational emissions. Averaged over 30 years, the proposed construction activities would contribute approximately 122.6 MT CO_2e emissions per year.

Table 7
CONSTRUCTION GHG EMISSIONS

Project Phase and Year	Emissions (MT CO_2e)
Phase 1 2021	325.7
Phase 1 2022	1,330.1
Phase 1 2023	1,008.0
Phase 2 2023	98.8
Phase 2 2024	643.3
Phase 2 2025	273.1
TOTAL	**3,679.0**
Amortized Emissions (Total Emission/30 Years)	*122.6*

Source: CalEEMod, output data is provided in Appendix A.
Notes: Totals may not sum due to rounding.
MT = metric ton; CO_2e = carbon dioxide equivalent

5.1.2 Operational Emissions

The project's operational GHG emissions and the existing land use GHG emissions were estimated using CalEEMod as described in Section 4.1. The complete modeling output is included as Appendix A to this report. The project's net annual operational emissions would be the total project annual emissions for the first year of full buildout, after completion of both Phase 1 and Phase 2 in 2025, plus the amortized construction emissions (described above) and minus the existing land use emissions that would occur without implementation of the project. As shown in Table 8, *Net Operational GHG Emissions*, the project would result in approximately 6,385 MT CO_2e per year.

For comparison with the City's 2035 GHG reduction target from the CAP, the project's net operational emissions were divided by the project's estimated future population. Based on the emissions modeling (described in Section 4.1), the CalEEMod default population density for high-rise multi-family apartments for San Diego County would be 2.86 persons per DU and the project's future residential

population would be approximately 2,717 residents. As shown in Table 8, the project's per capita emissions would be approximately 2.25 MT CO_2e per year, below the City's GHG emissions target of 3.46 MT CO_2e per capita by the year 3035. Therefore, the project would not generate GHG emissions that may have a significant impact on the environment, and the impact would be less than significant.

Table 8
NET OPERATIONAL GHG EMISSIONS

Project Phase and Source	Emissions (MT CO_2e/year)
Phase 1 Area	289.1
Phase 1 Energy	1,820.6
Phase 1 Vehicular (Mobile)	2,462.8
Phase 1 Solid Waste	117.9
Phase 1 Water and Wastewater	280.5
Phase 1 Subtotal[1]	4,970.9
Phase 2 Area	136.7
Phase 2 Energy	850.5
Phase 2 Vehicular (Mobile)	1,093.9
Phase 2 Solid Waste	52.9
Phase 2 Water and Wastewater	129.3
Phase 2 Subtotal[1]	2,263.4
Project Total (Phase 1 Subtotal + Phase 2 Subtotal)	7,234.3
Amortized Construction Emissions	122.6
Less Existing Land Use Emissions	(971.9)
Net Emissions	**6,385.0**
Net Emissions Per Capita[2]	**2.25**
Threshold (MT CO_2e per capita per year)	*3.46*
Exceed Threshold?	***No***

Source: CalEEMod, output data is provided in Appendix A.
[1] Totals may not sum due to rounding.
[2] Net emissions per capita = net emissions divided by the estimated future project population of 2,717 residents.
MT = metric ton; CO_2e = carbon dioxide equivalent

5.2 ISSUE 2: CONFLICT WITH AN APPLICABLE PLAN, POLICY, OR REGULATION ADOPTED FOR THE PURPOSE OF REDUCING GHG EMISSIONS

The City's CAP describes the 2010 GHG emissions baseline and forecasted emissions for 2020 and 2035, and identifies achievable, measurable strategies and actions for the City to implement to reduce emissions to 15 percent below 2010 levels by 2020 and 53 percent below 2010 levels by 2035 (City of La Mesa 2018). These CAP reduction goals were designed to enable the City to meet the 2020 GHG reduction mandates of AB 32, the 2030 GHG reduction mandates SB 32, and to be on-track to meet the 2050 of EO S-3-05 goal of GHG emissions 80 percent below 1990 levels by 2050.

The CAP contains reduction measures within the City's direct influence to achieve the City's 2020 and 2035 GHG reduction targets in five strategy areas: energy; transportation and land use; water; solid waste; and green infrastructure (urban forest). The project is within ½ mile of the 70th Street Trolley

Station, which serves the Metropolitan Transit System (MTS) Green Line Trolley. Due the project's proposed high-density multi-family housing and proximity to a major transit stop, the project would be considered TOD. The project would also add pedestrian and bicycle lane/sidewalks on Alvarado Road and add pedestrian and bicycle access to the 70th Street Trolley Station. Therefore, the project would support the CAP Transportation and Land Use reduction strategies and measures T-1, *Bicycle and Pedestrian Infrastructure Development*, and T-4*, Mixed-Use and Transit-Oriented Development*. In addition, the project's conformance to the 2019 Title 24 Part 6 building energy efficiency code and Part 11 CALGreen code would ensure the project is consistent with the CAP building energy, water use, and solid waste diversion strategies and measures; and the project would be consistent with the green infrastructure strategies and measures by implementing the 2019 CALGreen and City standards for public right of way and parking lot shade trees and by restoring the Alvarado Creek channel with native planting.

As discussed in Sections 2.4 and 2.5, the transportation sector is the largest source of GHG emissions in the state and in the San Diego region. A project's GHG emissions from cars and light trucks are directly correlated to the project's VMT. A reduction of VMT through implementation of TOD projects is a key component of SANDAG's Regional Plan to mitigate the adverse effects of traffic congestion and reduce Greenhouse Gas Emissions (SANDAG 2015). The TIS analyzed the project's VMT per capita and compared it to the San Diego regional VMT per capita. The regional VMT per capita is 15.3 miles and the project VMT per capita would be 13.5 miles, based primarily on proximity to the transit station (Kimley Horn 2020). The project would include the design features described in Section 1.6.

The TIS also includes estimated VMT reductions that would further reduce the project's VMT. These features would further reduce the project's mobile source GHG emissions by reducing VMT. The measures include:

- 1D Employer Transit Pass Subsidy: 0.3% VMT reduction
- 2A Transit Oriented Development: 5.2% VMT reduction
- 3A Parking Pricing: 7.5% VMT reduction
- 4B Pedestrian Facility Improvement: 1.4% VMT reduction
- 4D Bike Facility Improvement: 0.1% VMT reduction

Note that the employer transit pass subsidy and the parking pricing measures would need to be implemented by the developer and are not guaranteed at this time. In addition, as described in Issue 1, above, the project's estimated GHG emissions per capita would be below the City's GHG emissions per capita reduction target selected for the CAP. Therefore, the project would be consistent with the reduction strategies and GHG emissions per capita target and would be consistent with the CAP. The project would implement TOD near the 70th Street Trolley Station and reduce VMT per capital, consistent with SANDAG's Regional Plan. Therefore, the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than significant.

6.0 LIST OF PREPARERS

Martin Rolph	Air Quality Specialist
Victor Ortiz	Senior Air Quality Specialist
Joanne M. Dramko, AICP	Principal Technical Specialist
Tim Belzman	Project Manager

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Appendix A

CalEEMod Output

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Alvarado SP Phase 1 Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	849.00	Space	0.00	339,600.00	0
Other Asphalt Surfaces	60.00	1000sqft	1.38	60,000.00	0
Other Non-Asphalt Surfaces	80.00	1000sqft	1.84	80,000.00	0
City Park	2.00	Acre	2.00	87,120.00	0
Apartments High Rise	645.00	Dwelling Unit	6.20	645,000.00	1845
Strip Mall	15.00	1000sqft	0.00	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 1 project components and public improvements.

Land Use - Apartments above a 3-story parking structure.
Other asphalt surfaces = Alvarado Road improvements.
Other non-asphalt surfaces = Alavaro Creek channel improvements.

Construction Phase - Schedule adjust to fit 26 month overall duration.
Grading inclded creek channel improvements.
Paving includes street improvements.
Architectural coating assumed to be concurrent with last 50% of building construction.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition equipment adjusted for existing structures size.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment added for grubbing and asphalt/concrete removal.

Trips and VMT - Maximum painting crew = 20.

Demolition -

Grading - 6,500 CY vegetation/soil/asphalt/concrete exported during site prep.
2,000 CY soil exported during excavation for underground utilities and creek channel impprovements.
All other cut/fill assumed to be balanced onsite.

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Trip rates and distance per traffic study.
All project trips applied to apartments.

Woodstoves - No woodstoves or wood burning fireplaces.

Area Coating - Coating VOC limits per SCAPCD Rule 67.

Energy Use -

Construction Off-road Equipment Mitigation - Fugitive dust mitigation per SDCPCD Rule 55.

Water Mitigation - 20% water reduction per 2019 CALGreen.

Waste Mitigation - 25% solid waste reduction per AB341.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00

tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	50.00
tblConstructionPhase	NumDays	30.00	93.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	196.00
tblFireplaces	NumberWood	225.75	0.00
tblGrading	MaterialExported	0.00	2,000.00
tblGrading	MaterialExported	0.00	6,500.00
tblLandUse	LotAcreage	7.64	0.00
tblLandUse	LotAcreage	10.40	6.20
tblLandUse	LotAcreage	0.34	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	HaulingTripNumber	813.00	812.00
tblTripsAndVMT	HaulingTripNumber	250.00	0.00
tblTripsAndVMT	WorkerTripNumber	141.00	40.00
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.98	5.71
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	3.65	5.71
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	4.20	5.71
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWoodstoves	NumberCatalytic	32.25	0.00
tblWoodstoves	NumberNoncatalytic	32.25	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2434	2.6680	1.6752	3.6400e-003	0.6610	0.1145	0.7755	0.3029	0.1054	0.4083	0.0000	323.3407	323.3407	0.0941	0.0000	325.6921
2022	0.8019	4.1641	4.5426	0.0145	0.9331	0.1200	1.0531	0.2492	0.1125	0.3617	0.0000	1,326.7231	1,326.7231	0.1341	0.0000	1,330.0758
2023	2.3890	2.5868	3.3059	0.0109	0.6159	0.0719	0.6877	0.1658	0.0680	0.2338	0.0000	1,005.8932	1,005.8932	0.0847	0.0000	1,008.0113
Maximum	**2.3890**	**4.1641**	**4.5426**	**0.0145**	**0.9331**	**0.1200**	**1.0531**	**0.3029**	**0.1125**	**0.4083**	**0.0000**	**1,326.7231**	**1,326.7231**	**0.1341**	**0.0000**	**1,330.0758**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2434	2.6680	1.6752	3.6400e-003	0.3065	0.1145	0.4209	0.1387	0.1054	0.2442	0.0000	323.3404	323.3404	0.0941	0.0000	325.6918
2022	0.8019	4.1641	4.5426	0.0145	0.8304	0.1200	0.9505	0.2227	0.1125	0.3352	0.0000	1,326.7227	1,326.7227	0.1341	0.0000	1,330.0754
2023	2.3890	2.5868	3.3059	0.0109	0.6159	0.0719	0.6877	0.1658	0.0680	0.2338	0.0000	1,005.8929	1,005.8929	0.0847	0.0000	1,008.0110
Maximum	**2.3890**	**4.1641**	**4.5426**	**0.0145**	**0.8304**	**0.1200**	**0.9505**	**0.2227**	**0.1125**	**0.3352**	**0.0000**	**1,326.7227**	**1,326.7227**	**0.1341**	**0.0000**	**1,330.0754**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.69**	**0.00**	**18.17**	**26.55**	**0.00**	**18.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2021**	**9-30-2021**	1.2286	1.2286
2	**10-1-2021**	**12-31-2021**	1.6665	1.6665
3	**1-1-2022**	**3-31-2022**	1.0149	1.0149
4	**4-1-2022**	**6-30-2022**	1.2131	1.2131
5	**7-1-2022**	**9-30-2022**	1.2264	1.2264
6	**10-1-2022**	**12-31-2022**	1.5169	1.5169
7	**1-1-2023**	**3-31-2023**	1.8451	1.8451
8	**4-1-2023**	**6-30-2023**	1.8507	1.8507
9	**7-1-2023**	**9-30-2023**	1.2609	1.2609
		Highest	1.8507	1.8507

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0079	0.2965	4.8991	1.7900e-003		0.0461	0.0461		0.0461	0.0461	0.0000	287.2598	287.2598	0.0129	5.1200e-003	289.1091
Energy	0.0260	0.2224	0.0953	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	1,813.6240	1,813.6240	0.0676	0.0177	1,820.5818
Mobile	0.7652	2.9709	7.8252	0.0266	2.4398	0.0214	2.4611	0.6533	0.0199	0.6731	0.0000	2,459.5598	2,459.5598	0.1305	0.0000	2,462.8213
Waste						0.0000	0.0000		0.0000	0.0000	63.4590	0.0000	63.4590	3.7503	0.0000	157.2171
Water						0.0000	0.0000		0.0000	0.0000	13.6849	290.8765	304.5614	1.4173	0.0356	350.6053
Total	**3.7992**	**3.4898**	**12.8196**	**0.0298**	**2.4398**	**0.0854**	**2.5252**	**0.6533**	**0.0839**	**0.7372**	**77.1439**	**4,851.3201**	**4,928.4641**	**5.3785**	**0.0584**	**5,080.3345**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0079	0.2965	4.8991	1.7900e-003		0.0461	0.0461		0.0461	0.0461	0.0000	287.2598	287.2598	0.0129	5.1200e-003	289.1091
Energy	0.0260	0.2224	0.0953	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	1,813.6240	1,813.6240	0.0676	0.0177	1,820.5818
Mobile	0.7652	2.9709	7.8252	0.0266	2.4398	0.0214	2.4611	0.6533	0.0199	0.6731	0.0000	2,459.5598	2,459.5598	0.1305	0.0000	2,462.8213
Waste						0.0000	0.0000		0.0000	0.0000	47.5943	0.0000	47.5943	2.8127	0.0000	117.9128
Water						0.0000	0.0000		0.0000	0.0000	10.9479	232.7012	243.6491	1.1338	0.0285	280.4842
Total	**3.7992**	**3.4898**	**12.8196**	**0.0298**	**2.4398**	**0.0854**	**2.5252**	**0.6533**	**0.0839**	**0.7372**	**58.5422**	**4,793.1449**	**4,851.6870**	**4.1575**	**0.0513**	**4,970.9092**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.11**	**1.20**	**1.56**	**22.70**	**12.19**	**2.15**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	7/14/2021	5	10	
2	Site Preparation	Site Preparation	7/15/2021	9/22/2021	5	50	
3	Grading/Utilities/Creek	Grading	9/23/2021	1/31/2022	5	93	
4	Paving/Street	Paving	2/1/2022	2/28/2022	5	20	
5	Building Construction	Building Construction	3/1/2022	8/31/2023	5	393	
6	Architectural Coating	Architectural Coating	12/1/2022	8/31/2023	5	196	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.22

Residential Indoor: 1,306,125; Residential Outdoor: 435,375; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 28,776 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading/Utilities/Creek	Excavators	2	8.00	158	0.38
Grading/Utilities/Creek	Graders	1	8.00	187	0.41
Grading/Utilities/Creek	Rubber Tired Dozers	1	8.00	247	0.40
Grading/Utilities/Creek	Scrapers	2	8.00	367	0.48
Grading/Utilities/Creek	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving/Street	Pavers	2	8.00	130	0.42
Paving/Street	Paving Equipment	2	8.00	132	0.36
Paving/Street	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	26.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	0.00	812.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities/Creek	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Street	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	707.00	164.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8900e-003	0.0000	2.8900e-003	4.4000e-004	0.0000	4.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4500e-003	0.0916	0.0713	1.3000e-004		4.5700e-003	4.5700e-003		4.2800e-003	4.2800e-003	0.0000	10.9788	10.9788	2.8400e-003	0.0000	11.0497
Total	**9.4500e-003**	**0.0916**	**0.0713**	**1.3000e-004**	**2.8900e-003**	**4.5700e-003**	**7.4600e-003**	**4.4000e-004**	**4.2800e-003**	**4.7200e-003**	**0.0000**	**10.9788**	**10.9788**	**2.8400e-003**	**0.0000**	**11.0497**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.4000e-003	8.4000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9901	0.9901	9.0000e-005	0.0000	0.9923
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3503	0.3503	1.0000e-005	0.0000	0.3505
Total	**2.7000e-004**	**3.5200e-003**	**2.0900e-003**	**1.0000e-005**	**6.2000e-004**	**1.0000e-005**	**6.3000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**1.3404**	**1.3404**	**1.0000e-004**	**0.0000**	**1.3429**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3000e-003	0.0000	1.3000e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4500e-003	0.0916	0.0713	1.3000e-004		4.5700e-003	4.5700e-003		4.2800e-003	4.2800e-003	0.0000	10.9787	10.9787	2.8400e-003	0.0000	11.0497
Total	**9.4500e-003**	**0.0916**	**0.0713**	**1.3000e-004**	**1.3000e-003**	**4.5700e-003**	**5.8700e-003**	**2.0000e-004**	**4.2800e-003**	**4.4800e-003**	**0.0000**	**10.9787**	**10.9787**	**2.8400e-003**	**0.0000**	**11.0497**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.4000e-003	8.4000e-004	1.0000e-005	2.2000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9901	0.9901	9.0000e-005	0.0000	0.9923
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3503	0.3503	1.0000e-005	0.0000	0.3505
Total	**2.7000e-004**	**3.5200e-003**	**2.0900e-003**	**1.0000e-005**	**6.2000e-004**	**1.0000e-005**	**6.3000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**1.3404**	**1.3404**	**1.0000e-004**	**0.0000**	**1.3429**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3016	0.0000	0.3016	0.1656	0.0000	0.1656	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0760	0.7938	0.4367	8.7000e-004		0.0380	0.0380		0.0350	0.0350	0.0000	76.2471	76.2471	0.0247	0.0000	76.8636
Total	**0.0760**	**0.7938**	**0.4367**	**8.7000e-004**	**0.3016**	**0.0380**	**0.3396**	**0.1656**	**0.0350**	**0.2006**	**0.0000**	**76.2471**	**76.2471**	**0.0247**	**0.0000**	**76.8636**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0500e-003	0.1060	0.0262	3.1000e-004	6.9500e-003	3.2000e-004	7.2700e-003	1.9100e-003	3.1000e-004	2.2100e-003	0.0000	30.9218	30.9218	2.7900e-003	0.0000	30.9916
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	9.3000e-004	9.3700e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6270	2.6270	8.0000e-005	0.0000	2.6288
Total	**4.3500e-003**	**0.1070**	**0.0355**	**3.4000e-004**	**9.9600e-003**	**3.4000e-004**	**0.0103**	**2.7100e-003**	**3.3000e-004**	**3.0300e-003**	**0.0000**	**33.5488**	**33.5488**	**2.8700e-003**	**0.0000**	**33.6204**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1357	0.0000	0.1357	0.0745	0.0000	0.0745	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0760	0.7938	0.4367	8.7000e-004		0.0380	0.0380		0.0350	0.0350	0.0000	76.2470	76.2470	0.0247	0.0000	76.8635
Total	**0.0760**	**0.7938**	**0.4367**	**8.7000e-004**	**0.1357**	**0.0380**	**0.1737**	**0.0745**	**0.0350**	**0.1095**	**0.0000**	**76.2470**	**76.2470**	**0.0247**	**0.0000**	**76.8635**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0500e-003	0.1060	0.0262	3.1000e-004	6.9500e-003	3.2000e-004	7.2700e-003	1.9100e-003	3.1000e-004	2.2100e-003	0.0000	30.9218	30.9218	2.7900e-003	0.0000	30.9916
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	9.3000e-004	9.3700e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6270	2.6270	8.0000e-005	0.0000	2.6288
Total	**4.3500e-003**	**0.1070**	**0.0355**	**3.4000e-004**	**9.9600e-003**	**3.4000e-004**	**0.0103**	**2.7100e-003**	**3.3000e-004**	**3.0300e-003**	**0.0000**	**33.5488**	**33.5488**	**2.8700e-003**	**0.0000**	**33.6204**

3.4 Grading/Utilities/Creek - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3402	0.0000	0.3402	0.1325	0.0000	0.1325	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.6704	1.1116	2.2300e-003		0.0715	0.0715		0.0658	0.0658	0.0000	196.1819	196.1819	0.0635	0.0000	197.7682
Total	**0.1509**	**1.6704**	**1.1116**	**2.2300e-003**	**0.3402**	**0.0715**	**0.4117**	**0.1325**	**0.0658**	**0.1983**	**0.0000**	**196.1819**	**196.1819**	**0.0635**	**0.0000**	**197.7682**

3.4 Grading/Utilities/Creek - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.7900e-003	0.0180	6.0000e-005	5.7700e-003	4.0000e-005	5.8100e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.0438	5.0438	1.4000e-004	0.0000	5.0474
Total	**2.5000e-003**	**1.7900e-003**	**0.0180**	**6.0000e-005**	**5.7700e-003**	**4.0000e-005**	**5.8100e-003**	**1.5300e-003**	**4.0000e-005**	**1.5700e-003**	**0.0000**	**5.0438**	**5.0438**	**1.4000e-004**	**0.0000**	**5.0474**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1531	0.0000	0.1531	0.0596	0.0000	0.0596	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1509	1.6704	1.1116	2.2300e-003		0.0715	0.0715		0.0658	0.0658	0.0000	196.1817	196.1817	0.0635	0.0000	197.7679
Total	**0.1509**	**1.6704**	**1.1116**	**2.2300e-003**	**0.1531**	**0.0715**	**0.2246**	**0.0596**	**0.0658**	**0.1254**	**0.0000**	**196.1817**	**196.1817**	**0.0635**	**0.0000**	**197.7679**

3.4 Grading/Utilities/Creek - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.7900e-003	0.0180	6.0000e-005	5.7700e-003	4.0000e-005	5.8100e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.0438	5.0438	1.4000e-004	0.0000	5.0474
Total	**2.5000e-003**	**1.7900e-003**	**0.0180**	**6.0000e-005**	**5.7700e-003**	**4.0000e-005**	**5.8100e-003**	**1.5300e-003**	**4.0000e-005**	**1.5700e-003**	**0.0000**	**5.0438**	**5.0438**	**1.4000e-004**	**0.0000**	**5.0474**

3.4 Grading/Utilities/Creek - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1867	0.0000	0.1867	0.0481	0.0000	0.0481	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.4079	0.3049	6.5000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	57.2613	57.2613	0.0185	0.0000	57.7243
Total	**0.0381**	**0.4079**	**0.3049**	**6.5000e-004**	**0.1867**	**0.0172**	**0.2038**	**0.0481**	**0.0158**	**0.0639**	**0.0000**	**57.2613**	**57.2613**	**0.0185**	**0.0000**	**57.7243**

3.4 Grading/Utilities/Creek - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.7000e-004	4.8700e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4172	1.4172	4.0000e-005	0.0000	1.4181
Total	**6.9000e-004**	**4.7000e-004**	**4.8700e-003**	**2.0000e-005**	**1.6800e-003**	**1.0000e-005**	**1.7000e-003**	**4.5000e-004**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**1.4172**	**1.4172**	**4.0000e-005**	**0.0000**	**1.4181**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0840	0.0000	0.0840	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.4079	0.3049	6.5000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	57.2613	57.2613	0.0185	0.0000	57.7243
Total	**0.0381**	**0.4079**	**0.3049**	**6.5000e-004**	**0.0840**	**0.0172**	**0.1012**	**0.0216**	**0.0158**	**0.0374**	**0.0000**	**57.2613**	**57.2613**	**0.0185**	**0.0000**	**57.7243**

3.4 Grading/Utilities/Creek - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.7000e-004	4.8700e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4172	1.4172	4.0000e-005	0.0000	1.4181
Total	**6.9000e-004**	**4.7000e-004**	**4.8700e-003**	**2.0000e-005**	**1.6800e-003**	**1.0000e-005**	**1.7000e-003**	**4.5000e-004**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**1.4172**	**1.4172**	**4.0000e-005**	**0.0000**	**1.4181**

3.5 Paving/Street - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	1.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0128**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

3.5 Paving/Street - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.4000e-004	3.4800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0123	1.0123	3.0000e-005	0.0000	1.0130
Total	**4.9000e-004**	**3.4000e-004**	**3.4800e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.0123**	**1.0123**	**3.0000e-005**	**0.0000**	**1.0130**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	1.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0128**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

3.5 Paving/Street - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.4000e-004	3.4800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0123	1.0123	3.0000e-005	0.0000	1.0130
Total	**4.9000e-004**	**3.4000e-004**	**3.4800e-003**	**1.0000e-005**	**1.2000e-003**	**1.0000e-005**	**1.2100e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.0123**	**1.0123**	**3.0000e-005**	**0.0000**	**1.0130**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1868	1.7099	1.7918	2.9500e-003		0.0886	0.0886		0.0834	0.0834	0.0000	253.7391	253.7391	0.0608	0.0000	255.2589
Total	**0.1868**	**1.7099**	**1.7918**	**2.9500e-003**		**0.0886**	**0.0886**		**0.0834**	**0.0834**	**0.0000**	**253.7391**	**253.7391**	**0.0608**	**0.0000**	**255.2589**

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0517	1.7428	0.4660	4.7600e-003	0.1192	3.3600e-003	0.1226	0.0344	3.2200e-003	0.0376	0.0000	465.0479	465.0479	0.0338	0.0000	465.8918
Worker	0.2547	0.1751	1.7956	5.7800e-003	0.6208	4.3000e-003	0.6251	0.1650	3.9600e-003	0.1689	0.0000	522.4399	522.4399	0.0142	0.0000	522.7958
Total	**0.3063**	**1.9178**	**2.2616**	**0.0105**	**0.7400**	**7.6600e-003**	**0.7477**	**0.1994**	**7.1800e-003**	**0.2066**	**0.0000**	**987.4877**	**987.4877**	**0.0480**	**0.0000**	**988.6875**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1868	1.7099	1.7918	2.9500e-003		0.0886	0.0886		0.0834	0.0834	0.0000	253.7388	253.7388	0.0608	0.0000	255.2586
Total	**0.1868**	**1.7099**	**1.7918**	**2.9500e-003**		**0.0886**	**0.0886**		**0.0834**	**0.0834**	**0.0000**	**253.7388**	**253.7388**	**0.0608**	**0.0000**	**255.2586**

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0517	1.7428	0.4660	4.7600e-003	0.1192	3.3600e-003	0.1226	0.0344	3.2200e-003	0.0376	0.0000	465.0479	465.0479	0.0338	0.0000	465.8918
Worker	0.2547	0.1751	1.7956	5.7800e-003	0.6208	4.3000e-003	0.6251	0.1650	3.9600e-003	0.1689	0.0000	522.4399	522.4399	0.0142	0.0000	522.7958
Total	**0.3063**	**1.9178**	**2.2616**	**0.0105**	**0.7400**	**7.6600e-003**	**0.7477**	**0.1994**	**7.1800e-003**	**0.2066**	**0.0000**	**987.4877**	**987.4877**	**0.0480**	**0.0000**	**988.6875**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1368	1.2515	1.4132	2.3400e-003		0.0609	0.0609		0.0573	0.0573	0.0000	201.6701	201.6701	0.0480	0.0000	202.8695
Total	**0.1368**	**1.2515**	**1.4132**	**2.3400e-003**		**0.0609**	**0.0609**		**0.0573**	**0.0573**	**0.0000**	**201.6701**	**201.6701**	**0.0480**	**0.0000**	**202.8695**

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0317	1.0878	0.3371	3.6800e-003	0.0947	1.3000e-003	0.0960	0.0273	1.2500e-003	0.0286	0.0000	360.1886	360.1886	0.0245	0.0000	360.8009
Worker	0.1918	0.1270	1.3231	4.4100e-003	0.4933	3.3500e-003	0.4966	0.1311	3.0800e-003	0.1342	0.0000	399.2337	399.2337	0.0103	0.0000	399.4923
Total	**0.2235**	**1.2148**	**1.6602**	**8.0900e-003**	**0.5880**	**4.6500e-003**	**0.5926**	**0.1584**	**4.3300e-003**	**0.1627**	**0.0000**	**759.4223**	**759.4223**	**0.0348**	**0.0000**	**760.2932**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1368	1.2515	1.4132	2.3400e-003		0.0609	0.0609		0.0573	0.0573	0.0000	201.6699	201.6699	0.0480	0.0000	202.8692
Total	**0.1368**	**1.2515**	**1.4132**	**2.3400e-003**		**0.0609**	**0.0609**		**0.0573**	**0.0573**	**0.0000**	**201.6699**	**201.6699**	**0.0480**	**0.0000**	**202.8692**

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0317	1.0878	0.3371	3.6800e-003	0.0947	1.3000e-003	0.0960	0.0273	1.2500e-003	0.0286	0.0000	360.1886	360.1886	0.0245	0.0000	360.8009
Worker	0.1918	0.1270	1.3231	4.4100e-003	0.4933	3.3500e-003	0.4966	0.1311	3.0800e-003	0.1342	0.0000	399.2337	399.2337	0.0103	0.0000	399.4923
Total	**0.2235**	**1.2148**	**1.6602**	**8.0900e-003**	**0.5880**	**4.6500e-003**	**0.5926**	**0.1584**	**4.3300e-003**	**0.1627**	**0.0000**	**759.4223**	**759.4223**	**0.0348**	**0.0000**	**760.2932**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2530					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
Total	**0.2553**	**0.0155**	**0.0200**	**3.0000e-005**		**9.0000e-004**	**9.0000e-004**		**9.0000e-004**	**9.0000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.8000e-004**	**0.0000**	**2.8132**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.9000e-004	0.0102	3.0000e-005	3.5300e-003	2.0000e-005	3.5500e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.9693	2.9693	8.0000e-005	0.0000	2.9713
Total	**1.4500e-003**	**9.9000e-004**	**0.0102**	**3.0000e-005**	**3.5300e-003**	**2.0000e-005**	**3.5500e-003**	**9.4000e-004**	**2.0000e-005**	**9.6000e-004**	**0.0000**	**2.9693**	**2.9693**	**8.0000e-005**	**0.0000**	**2.9713**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2530					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
Total	**0.2553**	**0.0155**	**0.0200**	**3.0000e-005**		**9.0000e-004**	**9.0000e-004**		**9.0000e-004**	**9.0000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.8000e-004**	**0.0000**	**2.8132**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.9000e-004	0.0102	3.0000e-005	3.5300e-003	2.0000e-005	3.5500e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.9693	2.9693	8.0000e-005	0.0000	2.9713
Total	**1.4500e-003**	**9.9000e-004**	**0.0102**	**3.0000e-005**	**3.5300e-003**	**2.0000e-005**	**3.5500e-003**	**9.4000e-004**	**2.0000e-005**	**9.6000e-004**	**0.0000**	**2.9693**	**2.9693**	**8.0000e-005**	**0.0000**	**2.9713**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0167	0.1134	0.1576	2.6000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	22.2133	22.2133	1.3300e-003	0.0000	22.2465
Total	**2.0179**	**0.1134**	**0.1576**	**2.6000e-004**		**6.1600e-003**	**6.1600e-003**		**6.1600e-003**	**6.1600e-003**	**0.0000**	**22.2133**	**22.2133**	**1.3300e-003**	**0.0000**	**22.2465**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	7.1800e-003	0.0749	2.5000e-004	0.0279	1.9000e-004	0.0281	7.4200e-003	1.7000e-004	7.5900e-003	0.0000	22.5875	22.5875	5.9000e-004	0.0000	22.6021
Total	**0.0109**	**7.1800e-003**	**0.0749**	**2.5000e-004**	**0.0279**	**1.9000e-004**	**0.0281**	**7.4200e-003**	**1.7000e-004**	**7.5900e-003**	**0.0000**	**22.5875**	**22.5875**	**5.9000e-004**	**0.0000**	**22.6021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0167	0.1134	0.1576	2.6000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	22.2133	22.2133	1.3300e-003	0.0000	22.2465
Total	**2.0179**	**0.1134**	**0.1576**	**2.6000e-004**		**6.1600e-003**	**6.1600e-003**		**6.1600e-003**	**6.1600e-003**	**0.0000**	**22.2133**	**22.2133**	**1.3300e-003**	**0.0000**	**22.2465**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	7.1800e-003	0.0749	2.5000e-004	0.0279	1.9000e-004	0.0281	7.4200e-003	1.7000e-004	7.5900e-003	0.0000	22.5875	22.5875	5.9000e-004	0.0000	22.6021
Total	**0.0109**	**7.1800e-003**	**0.0749**	**2.5000e-004**	**0.0279**	**1.9000e-004**	**0.0281**	**7.4200e-003**	**1.7000e-004**	**7.5900e-003**	**0.0000**	**22.5875**	**22.5875**	**5.9000e-004**	**0.0000**	**22.6021**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7652	2.9709	7.8252	0.0266	2.4398	0.0214	2.4611	0.6533	0.0199	0.6731	0.0000	2,459.5598	2,459.5598	0.1305	0.0000	2,462.8213
Unmitigated	0.7652	2.9709	7.8252	0.0266	2.4398	0.0214	2.4611	0.6533	0.0199	0.6731	0.0000	2,459.5598	2,459.5598	0.1305	0.0000	2,462.8213

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,682.95	3,682.95	3682.95	6,475,068	6,475,068
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	3,682.95	3,682.95	3,682.95	6,475,068	6,475,068

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	4.83	7.30	7.50	100.00	0.00	0.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
City Park	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Enclosed Parking with Elevator	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Other Asphalt Surfaces	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Other Non-Asphalt Surfaces	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Strip Mall	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Alvarado SP Phase 1 Project - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,556.1443	1,556.1443	0.0626	0.0130	1,561.5720
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,556.1443	1,556.1443	0.0626	0.0130	1,561.5720
NaturalGas Mitigated	0.0260	0.2224	0.0953	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.4797	257.4797	4.9400e-003	4.7200e-003	259.0098
NaturalGas Unmitigated	0.0260	0.2224	0.0953	1.4200e-003		0.0180	0.0180		0.0180	0.0180	0.0000	257.4797	257.4797	4.9400e-003	4.7200e-003	259.0098

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	4.79154e+006	0.0258	0.2208	0.0940	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	255.6947	255.6947	4.9000e-003	4.6900e-003	257.2141
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	33450	1.8000e-004	1.6400e-003	1.3800e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7850	1.7850	3.0000e-005	3.0000e-005	1.7956
Total		**0.0260**	**0.2224**	**0.0953**	**1.4200e-003**		**0.0180**	**0.0180**		**0.0180**	**0.0180**	**0.0000**	**257.4797**	**257.4797**	**4.9300e-003**	**4.7200e-003**	**259.0098**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	4.79154e+006	0.0258	0.2208	0.0940	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	255.6947	255.6947	4.9000e-003	4.6900e-003	257.2141
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	33450	1.8000e-004	1.6400e-003	1.3800e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7850	1.7850	3.0000e-005	3.0000e-005	1.7956
Total		**0.0260**	**0.2224**	**0.0953**	**1.4200e-003**		**0.0180**	**0.0180**		**0.0180**	**0.0180**	**0.0000**	**257.4797**	**257.4797**	**4.9300e-003**	**4.7200e-003**	**259.0098**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.58318e+006	844.2058	0.0340	7.0300e-003	847.1503
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.99006e+006	650.3678	0.0262	5.4200e-003	652.6362
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	188400	61.5708	2.4800e-003	5.1000e-004	61.7855
Total		**1,556.1443**	**0.0626**	**0.0130**	**1,561.5720**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	2.58318e+006	844.2058	0.0340	7.0300e-003	847.1503
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.99006e+006	650.3678	0.0262	5.4200e-003	652.6362
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	188400	61.5708	2.4800e-003	5.1000e-004	61.7855
Total		**1,556.1443**	**0.0626**	**0.0130**	**1,561.5720**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0079	0.2965	4.8991	1.7900e-003		0.0461	0.0461		0.0461	0.0461	0.0000	287.2598	287.2598	0.0129	5.1200e-003	289.1091
Unmitigated	3.0079	0.2965	4.8991	1.7900e-003		0.0461	0.0461		0.0461	0.0461	0.0000	287.2598	287.2598	0.0129	5.1200e-003	289.1091

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6095					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0282	0.2413	0.1027	1.5400e-003		0.0195	0.0195		0.0195	0.0195	0.0000	279.4188	279.4188	5.3600e-003	5.1200e-003	281.0792
Landscaping	0.1448	0.0552	4.7964	2.5000e-004		0.0266	0.0266		0.0266	0.0266	0.0000	7.8411	7.8411	7.5500e-003	0.0000	8.0299
Total	**3.0079**	**0.2965**	**4.8991**	**1.7900e-003**		**0.0461**	**0.0461**		**0.0461**	**0.0461**	**0.0000**	**287.2598**	**287.2598**	**0.0129**	**5.1200e-003**	**289.1091**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6095					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0282	0.2413	0.1027	1.5400e-003		0.0195	0.0195		0.0195	0.0195	0.0000	279.4188	279.4188	5.3600e-003	5.1200e-003	281.0792
Landscaping	0.1448	0.0552	4.7964	2.5000e-004		0.0266	0.0266		0.0266	0.0266	0.0000	7.8411	7.8411	7.5500e-003	0.0000	8.0299
Total	**3.0079**	**0.2965**	**4.8991**	**1.7900e-003**		**0.0461**	**0.0461**		**0.0461**	**0.0461**	**0.0000**	**287.2598**	**287.2598**	**0.0129**	**5.1200e-003**	**289.1091**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	243.6491	1.1338	0.0285	280.4842
Unmitigated	304.5614	1.4173	0.0356	350.6053

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	42.0243 / 26.4936	288.3560	1.3804	0.0346	333.1848
City Park	0 / 2.38296	8.6522	3.5000e-004	7.0000e-005	8.6824
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.11109 / 0.680989	7.5532	0.0365	9.1000e-004	8.7382
Total		**304.5614**	**1.4173**	**0.0356**	**350.6053**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	33.6195 / 21.1949	230.6848	1.1044	0.0277	266.5478
City Park	0 / 1.90637	6.9217	2.8000e-004	6.0000e-005	6.9459
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.88887 / 0.544791	6.0425	0.0292	7.3000e-004	6.9905
Total		**243.6491**	**1.1338**	**0.0285**	**280.4842**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	47.5943	2.8127	0.0000	117.9128
Unmitigated	63.4590	3.7503	0.0000	157.2171

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	296.7	60.2274	3.5593	0.0000	149.2109
City Park	0.17	0.0345	2.0400e-003	0.0000	0.0855
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	15.75	3.1971	0.1889	0.0000	7.9207
Total		**63.4590**	**3.7503**	**0.0000**	**157.2171**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	222.525	45.1706	2.6695	0.0000	111.9082
City Park	0.1275	0.0259	1.5300e-003	0.0000	0.0641
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	11.8125	2.3978	0.1417	0.0000	5.9405
Total		**47.5943**	**2.8127**	**0.0000**	**117.9128**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 1 Project

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	849.00	Space	0.00	339,600.00	0
Other Asphalt Surfaces	60.00	1000sqft	1.38	60,000.00	0
Other Non-Asphalt Surfaces	80.00	1000sqft	1.84	80,000.00	0
City Park	2.00	Acre	2.00	87,120.00	0
Apartments High Rise	645.00	Dwelling Unit	6.20	645,000.00	1845
Strip Mall	15.00	1000sqft	0.00	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Alvarado SP Phase 1 Project - San Diego County, Winter

Project Characteristics - Phase 1 project components and public improvements.

Land Use - Apartments above a 3-story parking structure.
Other asphalt surfaces = Alvarado Road improvements.
Other non-asphalt surfaces = Alavaro Creek channel improvements.

Construction Phase - Schedule adjust to fit 26 month overall duration.
Grading inclded creek channel improvements.
Paving includes street improvements.
Architectural coating assumed to be concurrent with last 50% of building construction.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition equipment adjusted for existing structures size.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment added for grubbing and asphalt/concrete removal.

Trips and VMT - Maximum painting crew = 20.

Demolition -

Grading - 6,500 CY vegetation/soil/asphalt/concrete exported during site prep.
2,000 CY soil exported during excavation for underground utilities and creek channel impprovements.
All other cut/fill assumed to be balanced onsite.

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Trip rates and distance per traffic study.
All project trips applied to apartments.

Woodstoves - No woodstoves or wood burning fireplaces.

Area Coating - Coating VOC limits per SCAPCD Rule 67.

Energy Use -

Construction Off-road Equipment Mitigation - Fugitive dust mitigation per SDCPCD Rule 55.

Water Mitigation - 20% water reduction per 2019 CALGreen.

Waste Mitigation - 25% solid waste reduction per AB341.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00

tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	50.00
tblConstructionPhase	NumDays	30.00	93.00
tblConstructionPhase	NumDays	300.00	393.00
tblConstructionPhase	NumDays	20.00	196.00
tblFireplaces	NumberWood	225.75	0.00
tblGrading	MaterialExported	0.00	2,000.00
tblGrading	MaterialExported	0.00	6,500.00
tblLandUse	LotAcreage	7.64	0.00
tblLandUse	LotAcreage	10.40	6.20
tblLandUse	LotAcreage	0.34	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblTripsAndVMT	HaulingTripNumber	813.00	812.00
tblTripsAndVMT	HaulingTripNumber	250.00	0.00
tblTripsAndVMT	WorkerTripNumber	141.00	40.00
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.98	5.71
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	3.65	5.71
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	4.20	5.71
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWoodstoves	NumberCatalytic	32.25	0.00
tblWoodstoves	NumberNoncatalytic	32.25	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2696	46.4503	31.3771	0.0636	12.4694	1.9865	14.0050	6.7337	1.8276	8.1469	0.0000	6,159.9530	6,159.9530	1.9472	0.0000	6,208.6328
2022	28.1759	38.8895	39.9456	0.1279	8.8407	1.6360	10.4767	3.6405	1.5051	5.1457	0.0000	12,947.7107	12,947.7107	1.9482	0.0000	12,975.9987
2023	27.7785	29.6252	38.1264	0.1246	7.2466	0.8267	8.0733	1.9473	0.7815	2.7287	0.0000	12,623.1146	12,623.1146	1.0815	0.0000	12,650.1522
Maximum	**28.1759**	**46.4503**	**39.9456**	**0.1279**	**12.4694**	**1.9865**	**14.0050**	**6.7337**	**1.8276**	**8.1469**	**0.0000**	**12,947.7107**	**12,947.7107**	**1.9482**	**0.0000**	**12,975.9987**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2696	46.4503	31.3771	0.0636	5.8351	1.9865	7.3707	3.0909	1.8276	4.5041	0.0000	6,159.9529	6,159.9529	1.9472	0.0000	6,208.6328
2022	28.1759	38.8895	39.9456	0.1279	7.2466	1.6360	8.2103	1.9473	1.5051	3.1673	0.0000	12,947.7107	12,947.7107	1.9482	0.0000	12,975.9987
2023	27.7785	29.6252	38.1264	0.1246	7.2466	0.8267	8.0733	1.9473	0.7815	2.7287	0.0000	12,623.1146	12,623.1146	1.0815	0.0000	12,650.1522
Maximum	**28.1759**	**46.4503**	**39.9456**	**0.1279**	**7.2466**	**1.9865**	**8.2103**	**3.0909**	**1.8276**	**4.5041**	**0.0000**	**12,947.7107**	**12,947.7107**	**1.9482**	**0.0000**	**12,975.9987**

Alvarado SP Phase 1 Project - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**28.81**	**0.00**	**27.34**	**43.31**	**0.00**	**35.09**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.8310	6.4985	55.7976	0.0404		0.7710	0.7710		0.7710	0.7710	0.0000	7,608.3893	7,608.3893	0.2365	0.1377	7,655.3442
Energy	0.1426	1.2188	0.5224	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.1933	1,555.1933	0.0298	0.0285	1,564.4351
Mobile	4.3249	16.2605	43.7348	0.1445	13.7274	0.1179	13.8453	3.6683	0.1097	3.7780		14,735.2426	14,735.2426	0.8020		14,755.2925
Total	**22.2984**	**23.9777**	**100.0548**	**0.1926**	**13.7274**	**0.9874**	**14.7148**	**3.6683**	**0.9792**	**4.6475**	**0.0000**	**23,898.8252**	**23,898.8252**	**1.0683**	**0.1662**	**23,975.0718**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	17.8310	6.4985	55.7976	0.0404		0.7710	0.7710		0.7710	0.7710	0.0000	7,608.3893	7,608.3893	0.2365	0.1377	7,655.3442
Energy	0.1426	1.2188	0.5224	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.1933	1,555.1933	0.0298	0.0285	1,564.4351
Mobile	4.3249	16.2605	43.7348	0.1445	13.7274	0.1179	13.8453	3.6683	0.1097	3.7780		14,735.2426	14,735.2426	0.8020		14,755.2925
Total	**22.2984**	**23.9777**	**100.0548**	**0.1926**	**13.7274**	**0.9874**	**14.7148**	**3.6683**	**0.9792**	**4.6475**	**0.0000**	**23,898.8252**	**23,898.8252**	**1.0683**	**0.1662**	**23,975.0718**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	7/14/2021	5	10	
2	Site Preparation	Site Preparation	7/15/2021	9/22/2021	5	50	
3	Grading/Utilities/Creek	Grading	9/23/2021	1/31/2022	5	93	
4	Paving/Street	Paving	2/1/2022	2/28/2022	5	20	
5	Building Construction	Building Construction	3/1/2022	8/31/2023	5	393	
6	Architectural Coating	Architectural Coating	12/1/2022	8/31/2023	5	196	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.22

Residential Indoor: 1,306,125; Residential Outdoor: 435,375; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 28,776 (Architectural Coating – sqft)

OffRoad Equipment

Alvarado SP Phase 1 Project - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading/Utilities/Creek	Excavators	2	8.00	158	0.38
Grading/Utilities/Creek	Graders	1	8.00	187	0.41
Grading/Utilities/Creek	Rubber Tired Dozers	1	8.00	247	0.40
Grading/Utilities/Creek	Scrapers	2	8.00	367	0.48
Grading/Utilities/Creek	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving/Street	Pavers	2	8.00	130	0.42
Paving/Street	Paving Equipment	2	8.00	132	0.36
Paving/Street	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	26.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	0.00	812.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities/Creek	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Street	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	707.00	164.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5781	0.0000	0.5781	0.0875	0.0000	0.0875			0.0000			0.0000
Off-Road	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551		2,420.4008	2,420.4008	0.6255		2,436.0393
Total	**1.8896**	**18.3160**	**14.2554**	**0.0251**	**0.5781**	**0.9145**	**1.4925**	**0.0875**	**0.8551**	**0.9427**		**2,420.4008**	**2,420.4008**	**0.6255**		**2,436.0393**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0198	0.6722	0.1733	1.9700e-003	0.0454	2.0800e-003	0.0475	0.0125	1.9900e-003	0.0144		216.0780	216.0780	0.0201		216.5795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		76.4548	76.4548	2.2000e-003		76.5097
Total	**0.0591**	**0.6974**	**0.4226**	**2.7400e-003**	**0.1276**	**2.6500e-003**	**0.1302**	**0.0342**	**2.5100e-003**	**0.0368**		**292.5328**	**292.5328**	**0.0223**		**293.0892**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2601	0.0000	0.2601	0.0394	0.0000	0.0394			0.0000			0.0000
Off-Road	1.8896	18.3160	14.2554	0.0251		0.9145	0.9145		0.8551	0.8551	0.0000	2,420.4008	2,420.4008	0.6255		2,436.0393
Total	**1.8896**	**18.3160**	**14.2554**	**0.0251**	**0.2601**	**0.9145**	**1.1746**	**0.0394**	**0.8551**	**0.8945**	**0.0000**	**2,420.4008**	**2,420.4008**	**0.6255**		**2,436.0393**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0198	0.6722	0.1733	1.9700e-003	0.0454	2.0800e-003	0.0475	0.0125	1.9900e-003	0.0144		216.0780	216.0780	0.0201		216.5795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0392	0.0252	0.2493	7.7000e-004	0.0822	5.7000e-004	0.0827	0.0218	5.2000e-004	0.0223		76.4548	76.4548	2.2000e-003		76.5097
Total	**0.0591**	**0.6974**	**0.4226**	**2.7400e-003**	**0.1276**	**2.6500e-003**	**0.1302**	**0.0342**	**2.5100e-003**	**0.0368**		**292.5328**	**292.5328**	**0.0223**		**293.0892**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.0624	0.0000	12.0624	6.6232	0.0000	6.6232			0.0000			0.0000
Off-Road	3.0395	31.7514	17.4665	0.0347		1.5217	1.5217		1.4000	1.4000		3,361.9227	3,361.9227	1.0873		3,389.1056
Total	**3.0395**	**31.7514**	**17.4665**	**0.0347**	**12.0624**	**1.5217**	**13.5842**	**6.6232**	**1.4000**	**8.0232**		**3,361.9227**	**3,361.9227**	**1.0873**		**3,389.1056**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1239	4.1988	1.0825	0.0123	0.2838	0.0130	0.2967	0.0778	0.0124	0.0902		1,349.6564	1,349.6564	0.1253		1,352.7890
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	**0.1827**	**4.2366**	**1.4565**	**0.0135**	**0.4070**	**0.0138**	**0.4208**	**0.1105**	**0.0132**	**0.1237**		**1,464.3386**	**1,464.3386**	**0.1286**		**1,467.5535**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4281	0.0000	5.4281	2.9805	0.0000	2.9805			0.0000			0.0000
Off-Road	3.0395	31.7514	17.4665	0.0347		1.5217	1.5217		1.4000	1.4000	0.0000	3,361.9227	3,361.9227	1.0873		3,389.1056
Total	**3.0395**	**31.7514**	**17.4665**	**0.0347**	**5.4281**	**1.5217**	**6.9498**	**2.9805**	**1.4000**	**4.3805**	**0.0000**	**3,361.9227**	**3,361.9227**	**1.0873**		**3,389.1056**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1239	4.1988	1.0825	0.0123	0.2838	0.0130	0.2967	0.0778	0.0124	0.0902		1,349.6564	1,349.6564	0.1253		1,352.7890
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0378	0.3740	1.1500e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		114.6821	114.6821	3.2900e-003		114.7645
Total	**0.1827**	**4.2366**	**1.4565**	**0.0135**	**0.4070**	**0.0138**	**0.4208**	**0.1105**	**0.0132**	**0.1237**		**1,464.3386**	**1,464.3386**	**0.1286**		**1,467.5535**

3.4 Grading/Utilities/Creek - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6764	0.0000	8.6764	3.5970	0.0000	3.5970			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6764**	**1.9853**	**10.6617**	**3.5970**	**1.8265**	**5.4235**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading/Utilities/Creek - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
Total	**0.0785**	**0.0505**	**0.4987**	**1.5300e-003**	**0.1643**	**1.1300e-003**	**0.1654**	**0.0436**	**1.0500e-003**	**0.0446**		**152.9095**	**152.9095**	**4.3900e-003**		**153.0193**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9044	0.0000	3.9044	1.6186	0.0000	1.6186			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.9044**	**1.9853**	**5.8897**	**1.6186**	**1.8265**	**3.4451**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading/Utilities/Creek - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
Total	**0.0785**	**0.0505**	**0.4987**	**1.5300e-003**	**0.1643**	**1.1300e-003**	**0.1654**	**0.0436**	**1.0500e-003**	**0.0446**		**152.9095**	**152.9095**	**4.3900e-003**		**153.0193**

3.4 Grading/Utilities/Creek - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6764	0.0000	8.6764	3.5970	0.0000	3.5970			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6764**	**1.6349**	**10.3113**	**3.5970**	**1.5041**	**5.1011**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading/Utilities/Creek - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0460	0.4627	1.4800e-003	0.1643	1.1100e-003	0.1654	0.0436	1.0200e-003	0.0446		147.3051	147.3051	4.0200e-003		147.4057
Total	**0.0743**	**0.0460**	**0.4627**	**1.4800e-003**	**0.1643**	**1.1100e-003**	**0.1654**	**0.0436**	**1.0200e-003**	**0.0446**		**147.3051**	**147.3051**	**4.0200e-003**		**147.4057**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9044	0.0000	3.9044	1.6186	0.0000	1.6186			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**3.9044**	**1.6349**	**5.5393**	**1.6186**	**1.5041**	**3.1227**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading/Utilities/Creek - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0460	0.4627	1.4800e-003	0.1643	1.1100e-003	0.1654	0.0436	1.0200e-003	0.0446		147.3051	147.3051	4.0200e-003		147.4057
Total	**0.0743**	**0.0460**	**0.4627**	**1.4800e-003**	**0.1643**	**1.1100e-003**	**0.1654**	**0.0436**	**1.0200e-003**	**0.0446**		**147.3051**	**147.3051**	**4.0200e-003**		**147.4057**

3.5 Paving/Street - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2836**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**		**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving/Street - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0558	0.0345	0.3470	1.1100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		110.4788	110.4788	3.0200e-003		110.5543
Total	**0.0558**	**0.0345**	**0.3470**	**1.1100e-003**	**0.1232**	**8.3000e-004**	**0.1241**	**0.0327**	**7.7000e-004**	**0.0335**		**110.4788**	**110.4788**	**3.0200e-003**		**110.5543**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2836**	**11.1249**	**14.5805**	**0.0228**		**0.5679**	**0.5679**		**0.5225**	**0.5225**	**0.0000**	**2,207.6603**	**2,207.6603**	**0.7140**		**2,225.5104**

3.5 Paving/Street - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0558	0.0345	0.3470	1.1100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		110.4788	110.4788	3.0200e-003		110.5543
Total	**0.0558**	**0.0345**	**0.3470**	**1.1100e-003**	**0.1232**	**8.3000e-004**	**0.1241**	**0.0327**	**7.7000e-004**	**0.0335**		**110.4788**	**110.4788**	**3.0200e-003**		**110.5543**

3.6 Building Construction - 2022

Unmitigated Construction On-Site

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

3.6 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4863	15.7288	4.4867	0.0428	1.1102	0.0315	1.1417	0.3196	0.0301	0.3497		4,610.0829	4,610.0829	0.3510		4,618.8587
Worker	2.6280	1.6258	16.3564	0.0522	5.8078	0.0393	5.8471	1.5405	0.0362	1.5767		5,207.2359	5,207.2359	0.1422		5,210.7903
Total	**3.1143**	**17.3546**	**20.8432**	**0.0950**	**6.9181**	**0.0707**	**6.9888**	**1.8601**	**0.0662**	**1.9263**		**9,817.3188**	**9,817.3188**	**0.4932**		**9,829.6490**

Mitigated Construction On-Site

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

3.6 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4863	15.7288	4.4867	0.0428	1.1102	0.0315	1.1417	0.3196	0.0301	0.3497		4,610.0829	4,610.0829	0.3510		4,618.8587
Worker	2.6280	1.6258	16.3564	0.0522	5.8078	0.0393	5.8471	1.5405	0.0362	1.5767		5,207.2359	5,207.2359	0.1422		5,210.7903
Total	**3.1143**	**17.3546**	**20.8432**	**0.0950**	**6.9181**	**0.0707**	**6.9888**	**1.8601**	**0.0662**	**1.9263**		**9,817.3188**	**9,817.3188**	**0.4932**		**9,829.6490**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

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

3.6 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3754	12.3691	4.0527	0.0416	1.1102	0.0155	1.1257	0.3196	0.0148	0.3344		4,494.7370	4,494.7370	0.3195		4,502.7250
Worker	2.4954	1.4843	15.1608	0.0502	5.8078	0.0385	5.8463	1.5405	0.0354	1.5759		5,008.3612	5,008.3612	0.1300		5,011.6098
Total	**2.8708**	**13.8534**	**19.2135**	**0.0919**	**6.9181**	**0.0539**	**6.9720**	**1.8601**	**0.0502**	**1.9103**		**9,503.0981**	**9,503.0981**	**0.4495**		**9,514.3348**

Mitigated Construction On-Site

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

3.6 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3754	12.3691	4.0527	0.0416	1.1102	0.0155	1.1257	0.3196	0.0148	0.3344		4,494.7370	4,494.7370	0.3195		4,502.7250
Worker	2.4954	1.4843	15.1608	0.0502	5.8078	0.0385	5.8463	1.5405	0.0354	1.5759		5,008.3612	5,008.3612	0.1300		5,011.6098
Total	**2.8708**	**13.8534**	**19.2135**	**0.0919**	**6.9181**	**0.0539**	**6.9720**	**1.8601**	**0.0502**	**1.9103**		**9,503.0981**	**9,503.0981**	**0.4495**		**9,514.3348**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.0021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**23.2067**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1487	0.0920	0.9254	2.9600e-003	0.3286	2.2200e-003	0.3308	0.0872	2.0500e-003	0.0892		294.6102	294.6102	8.0400e-003		294.8113
Total	**0.1487**	**0.0920**	**0.9254**	**2.9600e-003**	**0.3286**	**2.2200e-003**	**0.3308**	**0.0872**	**2.0500e-003**	**0.0892**		**294.6102**	**294.6102**	**8.0400e-003**		**294.8113**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.0021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**23.2067**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1487	0.0920	0.9254	2.9600e-003	0.3286	2.2200e-003	0.3308	0.0872	2.0500e-003	0.0892		294.6102	294.6102	8.0400e-003		294.8113
Total	**0.1487**	**0.0920**	**0.9254**	**2.9600e-003**	**0.3286**	**2.2200e-003**	**0.3308**	**0.0872**	**2.0500e-003**	**0.0892**		**294.6102**	**294.6102**	**8.0400e-003**		**294.8113**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.0021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**23.1938**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1412	0.0840	0.8578	2.8400e-003	0.3286	2.1800e-003	0.3308	0.0872	2.0000e-003	0.0892		283.3585	283.3585	7.3500e-003		283.5423
Total	**0.1412**	**0.0840**	**0.8578**	**2.8400e-003**	**0.3286**	**2.1800e-003**	**0.3308**	**0.0872**	**2.0000e-003**	**0.0892**		**283.3585**	**283.3585**	**7.3500e-003**		**283.5423**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.0021					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**23.1938**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1412	0.0840	0.8578	2.8400e-003	0.3286	2.1800e-003	0.3308	0.0872	2.0000e-003	0.0892		283.3585	283.3585	7.3500e-003		283.5423
Total	**0.1412**	**0.0840**	**0.8578**	**2.8400e-003**	**0.3286**	**2.1800e-003**	**0.3308**	**0.0872**	**2.0000e-003**	**0.0892**		**283.3585**	**283.3585**	**7.3500e-003**		**283.5423**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3249	16.2605	43.7348	0.1445	13.7274	0.1179	13.8453	3.6683	0.1097	3.7780		14,735.2426	14,735.2426	0.8020		14,755.2925
Unmitigated	4.3249	16.2605	43.7348	0.1445	13.7274	0.1179	13.8453	3.6683	0.1097	3.7780		14,735.2426	14,735.2426	0.8020		14,755.2925

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,682.95	3,682.95	3682.95	6,475,068	6,475,068
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	3,682.95	3,682.95	3,682.95	6,475,068	6,475,068

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	4.83	7.30	7.50	100.00	0.00	0.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
City Park	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Enclosed Parking with Elevator	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Other Asphalt Surfaces	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Other Non-Asphalt Surfaces	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Strip Mall	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Alvarado SP Phase 1 Project - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1426	1.2188	0.5224	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.1933	1,555.1933	0.0298	0.0285	1,564.4351
NaturalGas Unmitigated	0.1426	1.2188	0.5224	7.7800e-003		0.0985	0.0985		0.0985	0.0985		1,555.1933	1,555.1933	0.0298	0.0285	1,564.4351

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	13127.5	0.1416	1.2098	0.5148	7.7200e-003		0.0978	0.0978		0.0978	0.0978		1,544.4117	1,544.4117	0.0296	0.0283	1,553.5894
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	91.6438	9.9000e-004	8.9800e-003	7.5500e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.7816	10.7816	2.1000e-004	2.0000e-004	10.8457
Total		**0.1426**	**1.2188**	**0.5224**	**7.7700e-003**		**0.0985**	**0.0985**		**0.0985**	**0.0985**		**1,555.1933**	**1,555.1933**	**0.0298**	**0.0285**	**1,564.4351**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	13.1275	0.1416	1.2098	0.5148	7.7200e-003		0.0978	0.0978		0.0978	0.0978		1,544.4117	1,544.4117	0.0296	0.0283	1,553.5894
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0916438	9.9000e-004	8.9800e-003	7.5500e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004		10.7816	10.7816	2.1000e-004	2.0000e-004	10.8457
Total		**0.1426**	**1.2188**	**0.5224**	**7.7700e-003**		**0.0985**	**0.0985**		**0.0985**	**0.0985**		**1,555.1933**	**1,555.1933**	**0.0298**	**0.0285**	**1,564.4351**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.8310	6.4985	55.7976	0.0404		0.7710	0.7710		0.7710	0.7710	0.0000	7,608.3893	7,608.3893	0.2365	0.1377	7,655.3442
Unmitigated	17.8310	6.4985	55.7976	0.0404		0.7710	0.7710		0.7710	0.7710	0.0000	7,608.3893	7,608.3893	0.2365	0.1377	7,655.3442

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2352					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.2984					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6886	5.8847	2.5041	0.0376		0.4758	0.4758		0.4758	0.4758	0.0000	7,512.3529	7,512.3529	0.1440	0.1377	7,556.9951
Landscaping	1.6088	0.6138	53.2935	2.8200e-003		0.2952	0.2952		0.2952	0.2952		96.0364	96.0364	0.0925		98.3491
Total	**17.8310**	**6.4985**	**55.7976**	**0.0404**		**0.7710**	**0.7710**		**0.7710**	**0.7710**	**0.0000**	**7,608.3893**	**7,608.3893**	**0.2365**	**0.1377**	**7,655.3442**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.2352					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.2984					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6886	5.8847	2.5041	0.0376		0.4758	0.4758		0.4758	0.4758	0.0000	7,512.3529	7,512.3529	0.1440	0.1377	7,556.9951
Landscaping	1.6088	0.6138	53.2935	2.8200e-003		0.2952	0.2952		0.2952	0.2952		96.0364	96.0364	0.0925		98.3491
Total	**17.8310**	**6.4985**	**55.7976**	**0.0404**		**0.7710**	**0.7710**		**0.7710**	**0.7710**	**0.0000**	**7,608.3893**	**7,608.3893**	**0.2365**	**0.1377**	**7,655.3442**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 2 Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	427.00	Space	0.00	170,800.00	0
City Park	0.95	Acre	0.95	41,382.00	0
Apartments High Rise	305.00	Dwelling Unit	2.85	305,000.00	872

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 2 project components.

Land Use - Apartments above a 3-level parking structure.

Construction Phase - Schedule adjust to fit 20 month overall duration.
Architectural coating assumed to be concurrent with last 50% of building construction.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition equipment adjusted for existing structures size.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment added for grubbing and asphalt/concrete removal.

Trips and VMT - Maximum painting crew = 20.

Demolition -

Grading - 3,060 CY vegetation/soil/asphalt/concrete exported during site prep.
1,000 CY soil exported during excavation for underground utilities and creek channel impprovements.
All other cut/fill assumed to be balanced onsite.

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Trip rates and distance per traffic study.
All project trips applied to apartments.

Woodstoves - No woodstoves or wood burning fireplaces.

Area Coating - Coating VOC limits per SDAPCD Rule 67.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Fugitive dust mitigation per SDCPCD Rule 55.

Water Mitigation - 20% water reduction per 2019 CALGreen.

Waste Mitigation - 25% solid waste reduction per AB341.

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	130.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	93.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	50.00
tblFireplaces	NumberWood	106.75	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialExported	0.00	3,060.00
tblLandUse	LotAcreage	3.84	0.00
tblLandUse	LotAcreage	4.92	2.85
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	62.00	40.00

tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.98	5.71
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	3.65	5.71
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	4.20	5.71
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	15.25	0.00
tblWoodstoves	NumberNoncatalytic	15.25	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0567	0.5883	0.4490	1.0900e-003	0.2631	0.0245	0.2876	0.1309	0.0225	0.1534	0.0000	98.0981	98.0981	0.0268	0.0000	98.7676
2024	0.6379	2.3585	2.7828	7.1100e-003	0.4959	0.0853	0.5812	0.1861	0.0798	0.2658	0.0000	640.9310	640.9310	0.0963	0.0000	643.3392
2025	0.7852	0.8251	1.1154	3.0100e-003	0.1395	0.0259	0.1654	0.0375	0.0245	0.0620	0.0000	272.3197	272.3197	0.0310	0.0000	273.0950
Maximum	**0.7852**	**2.3585**	**2.7828**	**7.1100e-003**	**0.4959**	**0.0853**	**0.5812**	**0.1861**	**0.0798**	**0.2658**	**0.0000**	**640.9310**	**640.9310**	**0.0963**	**0.0000**	**643.3392**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0567	0.5883	0.4490	1.0900e-003	0.1229	0.0245	0.1473	0.0601	0.0225	0.0826	0.0000	98.0981	98.0981	0.0268	0.0000	98.7675
2024	0.6379	2.3585	2.7828	7.1100e-003	0.3713	0.0853	0.4567	0.1236	0.0798	0.2033	0.0000	640.9306	640.9306	0.0963	0.0000	643.3389
2025	0.7852	0.8251	1.1154	3.0100e-003	0.1395	0.0259	0.1654	0.0375	0.0245	0.0620	0.0000	272.3196	272.3196	0.0310	0.0000	273.0949
Maximum	**0.7852**	**2.3585**	**2.7828**	**7.1100e-003**	**0.3713**	**0.0853**	**0.4567**	**0.1236**	**0.0798**	**0.2033**	**0.0000**	**640.9306**	**640.9306**	**0.0963**	**0.0000**	**643.3389**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**29.47**	**0.00**	**25.60**	**37.59**	**0.00**	**27.69**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-1-2023**	**11-30-2023**	0.4352	0.4352
2	**12-1-2023**	**2-29-2024**	0.6279	0.6279
3	**3-1-2024**	**5-31-2024**	0.5543	0.5543
4	**6-1-2024**	**8-31-2024**	0.7064	0.7064
5	**9-1-2024**	**11-30-2024**	0.8932	0.8932
6	**12-1-2024**	**2-28-2025**	1.2216	1.2216
7	**3-1-2025**	**5-31-2025**	0.8158	0.8158
		Highest	1.2216	1.2216

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3856	0.1402	2.3150	8.5000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	135.8352	135.8352	6.0900e-003	2.4200e-003	136.7094
Energy	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	847.2070	847.2070	0.0316	8.2700e-003	850.4587
Mobile	0.3287	1.3207	3.3293	0.0118	1.1535	9.4500e-003	1.1629	0.3088	8.7800e-003	0.3176	0.0000	1,092.4881	1,092.4881	0.0570	0.0000	1,093.9134
Waste						0.0000	0.0000		0.0000	0.0000	28.4959	0.0000	28.4959	1.6841	0.0000	70.5973
Water						0.0000	0.0000		0.0000	0.0000	6.3045	134.1597	140.4642	0.6529	0.0164	161.6766
Total	**1.7265**	**1.5653**	**5.6888**	**0.0133**	**1.1535**	**0.0397**	**1.1932**	**0.3088**	**0.0390**	**0.3478**	**34.8003**	**2,209.6900**	**2,244.4903**	**2.4316**	**0.0271**	**2,313.3554**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3856	0.1402	2.3150	8.5000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	135.8352	135.8352	6.0900e-003	2.4200e-003	136.7094
Energy	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	847.2070	847.2070	0.0316	8.2700e-003	850.4587
Mobile	0.3287	1.3207	3.3293	0.0118	1.1535	9.4500e-003	1.1629	0.3088	8.7800e-003	0.3176	0.0000	1,092.4881	1,092.4881	0.0570	0.0000	1,093.9134
Waste						0.0000	0.0000		0.0000	0.0000	21.3719	0.0000	21.3719	1.2630	0.0000	52.9480
Water						0.0000	0.0000		0.0000	0.0000	5.0436	107.3278	112.3713	0.5223	0.0131	129.3413
Total	**1.7265**	**1.5653**	**5.6888**	**0.0133**	**1.1535**	**0.0397**	**1.1932**	**0.3088**	**0.0390**	**0.3478**	**26.4155**	**2,182.8580**	**2,209.2735**	**1.8800**	**0.0238**	**2,263.3708**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.09**	**1.21**	**1.57**	**22.68**	**12.10**	**2.16**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2023	9/14/2023	5	10	
2	Site Preparation	Site Preparation	9/15/2023	11/23/2023	5	50	
3	Grading/Utilities	Grading	11/24/2023	4/2/2024	5	93	
4	Paving	Paving	4/3/2024	4/30/2024	5	20	
5	Building Construction	Building Construction	5/1/2024	4/30/2025	5	261	
6	Architectural Coating	Architectural Coating	10/31/2024	4/30/2025	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 617,625; Residential Outdoor: 205,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,248 (Architectural Coating – sqft)

OffRoad Equipment

Alvarado SP Phase 2 Project - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Excavators	1	4.00	158	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	4.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading/Utilities	Excavators	1	8.00	158	0.38
Grading/Utilities	Graders	1	8.00	187	0.41
Grading/Utilities	Rubber Tired Dozers	1	8.00	247	0.40
Grading/Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	383.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities	6	15.00	0.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	309.00	67.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-003	0.0000	1.2000e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-003	0.0498	0.0410	8.0000e-005		2.3000e-003	2.3000e-003		2.1500e-003	2.1500e-003	0.0000	7.3638	7.3638	2.0100e-003	0.0000	7.4141
Total	**5.2000e-003**	**0.0498**	**0.0410**	**8.0000e-005**	**1.2000e-003**	**2.3000e-003**	**3.5000e-003**	**1.8000e-004**	**2.1500e-003**	**2.3300e-003**	**0.0000**	**7.3638**	**7.3638**	**2.0100e-003**	**0.0000**	**7.4141**

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.0000e-004	3.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3994	0.3994	4.0000e-005	0.0000	0.4003
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.6000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2596	0.2596	1.0000e-005	0.0000	0.2598
Total	**1.5000e-004**	**9.8000e-004**	**1.1900e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.2000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.6590**	**0.6590**	**5.0000e-005**	**0.0000**	**0.6601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-003	0.0498	0.0410	8.0000e-005		2.3000e-003	2.3000e-003		2.1500e-003	2.1500e-003	0.0000	7.3638	7.3638	2.0100e-003	0.0000	7.4141
Total	**5.2000e-003**	**0.0498**	**0.0410**	**8.0000e-005**	**5.4000e-004**	**2.3000e-003**	**2.8400e-003**	**8.0000e-005**	**2.1500e-003**	**2.2300e-003**	**0.0000**	**7.3638**	**7.3638**	**2.0100e-003**	**0.0000**	**7.4141**

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.0000e-004	3.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3994	0.3994	4.0000e-005	0.0000	0.4003
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.6000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2596	0.2596	1.0000e-005	0.0000	0.2598
Total	**1.5000e-004**	**9.8000e-004**	**1.1900e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.2000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.6590**	**0.6590**	**5.0000e-005**	**0.0000**	**0.6601**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1508	0.0000	0.1508	0.0828	0.0000	0.0828	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2691	0.1930	4.3000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	38.1338	38.1338	0.0123	0.0000	38.4421
Total	**0.0266**	**0.2691**	**0.1930**	**4.3000e-004**	**0.1508**	**0.0120**	**0.1628**	**0.0828**	**0.0110**	**0.0938**	**0.0000**	**38.1338**	**38.1338**	**0.0123**	**0.0000**	**38.4421**

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.7000e-004	0.0314	0.0115	1.4000e-004	3.2800e-003	6.0000e-005	3.3300e-003	9.0000e-004	6.0000e-005	9.6000e-004	0.0000	13.9057	13.9057	1.2400e-003	0.0000	13.9368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.2000e-004	5.3800e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.6227	1.6227	4.0000e-005	0.0000	1.6237
Total	**1.7500e-003**	**0.0319**	**0.0169**	**1.6000e-004**	**5.2800e-003**	**7.0000e-005**	**5.3500e-003**	**1.4300e-003**	**7.0000e-005**	**1.5100e-003**	**0.0000**	**15.5283**	**15.5283**	**1.2800e-003**	**0.0000**	**15.5605**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0679	0.0000	0.0679	0.0373	0.0000	0.0373	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2691	0.1930	4.3000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	38.1337	38.1337	0.0123	0.0000	38.4420
Total	**0.0266**	**0.2691**	**0.1930**	**4.3000e-004**	**0.0679**	**0.0120**	**0.0798**	**0.0373**	**0.0110**	**0.0483**	**0.0000**	**38.1337**	**38.1337**	**0.0123**	**0.0000**	**38.4420**

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.7000e-004	0.0314	0.0115	1.4000e-004	3.2800e-003	6.0000e-005	3.3300e-003	9.0000e-004	6.0000e-005	9.6000e-004	0.0000	13.9057	13.9057	1.2400e-003	0.0000	13.9368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.2000e-004	5.3800e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.5000e-004	0.0000	1.6227	1.6227	4.0000e-005	0.0000	1.6237
Total	**1.7500e-003**	**0.0319**	**0.0169**	**1.6000e-004**	**5.2800e-003**	**7.0000e-005**	**5.3500e-003**	**1.4300e-003**	**7.0000e-005**	**1.5100e-003**	**0.0000**	**15.5283**	**15.5283**	**1.2800e-003**	**0.0000**	**15.5605**

3.4 Grading/Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1030	0.0000	0.1030	0.0457	0.0000	0.0457	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2332	0.1918	3.9000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	33.8788	33.8788	0.0110	0.0000	34.1527
Total	**0.0222**	**0.2332**	**0.1918**	**3.9000e-004**	**0.1030**	**0.0101**	**0.1131**	**0.0457**	**9.2700e-003**	**0.0550**	**0.0000**	**33.8788**	**33.8788**	**0.0110**	**0.0000**	**34.1527**

3.4 Grading/Utilities - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	2.8700e-003	1.0500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2688	1.2688	1.1000e-004	0.0000	1.2716
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.0000e-004	4.1900e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2657	1.2657	3.0000e-005	0.0000	1.2665
Total	**7.0000e-004**	**3.2700e-003**	**5.2400e-003**	**2.0000e-005**	**2.4400e-003**	**2.0000e-005**	**2.4500e-003**	**6.4000e-004**	**2.0000e-005**	**6.6000e-004**	**0.0000**	**2.5345**	**2.5345**	**1.4000e-004**	**0.0000**	**2.5381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0464	0.0000	0.0464	0.0206	0.0000	0.0206	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.2332	0.1918	3.9000e-004		0.0101	0.0101		9.2700e-003	9.2700e-003	0.0000	33.8788	33.8788	0.0110	0.0000	34.1527
Total	**0.0222**	**0.2332**	**0.1918**	**3.9000e-004**	**0.0464**	**0.0101**	**0.0564**	**0.0206**	**9.2700e-003**	**0.0298**	**0.0000**	**33.8788**	**33.8788**	**0.0110**	**0.0000**	**34.1527**

3.4 Grading/Utilities - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	2.8700e-003	1.0500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2688	1.2688	1.1000e-004	0.0000	1.2716
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.0000e-004	4.1900e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2657	1.2657	3.0000e-005	0.0000	1.2665
Total	**7.0000e-004**	**3.2700e-003**	**5.2400e-003**	**2.0000e-005**	**2.4400e-003**	**2.0000e-005**	**2.4500e-003**	**6.4000e-004**	**2.0000e-005**	**6.6000e-004**	**0.0000**	**2.5345**	**2.5345**	**1.4000e-004**	**0.0000**	**2.5381**

3.4 Grading/Utilities - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2265	0.0000	0.2265	0.1136	0.0000	0.1136	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0557	0.5705	0.4944	9.9000e-004		0.0243	0.0243		0.0223	0.0223	0.0000	87.3141	87.3141	0.0282	0.0000	88.0201
Total	**0.0557**	**0.5705**	**0.4944**	**9.9000e-004**	**0.2265**	**0.0243**	**0.2507**	**0.1136**	**0.0223**	**0.1359**	**0.0000**	**87.3141**	**87.3141**	**0.0282**	**0.0000**	**88.0201**

3.4 Grading/Utilities - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	7.2000e-003	2.7200e-003	3.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	3.2469	3.2469	2.9000e-004	0.0000	3.2542
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.5000e-004	0.0101	3.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	2.0000e-005	1.1000e-003	0.0000	3.1332	3.1332	8.0000e-005	0.0000	3.1351
Total	**1.7100e-003**	**8.1500e-003**	**0.0128**	**6.0000e-005**	**5.0300e-003**	**4.0000e-005**	**5.0700e-003**	**1.3400e-003**	**3.0000e-005**	**1.3800e-003**	**0.0000**	**6.3800**	**6.3800**	**3.7000e-004**	**0.0000**	**6.3893**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1019	0.0000	0.1019	0.0511	0.0000	0.0511	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0557	0.5705	0.4944	9.9000e-004		0.0243	0.0243		0.0223	0.0223	0.0000	87.3140	87.3140	0.0282	0.0000	88.0200
Total	**0.0557**	**0.5705**	**0.4944**	**9.9000e-004**	**0.1019**	**0.0243**	**0.1262**	**0.0511**	**0.0223**	**0.0734**	**0.0000**	**87.3140**	**87.3140**	**0.0282**	**0.0000**	**88.0200**

3.4 Grading/Utilities - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	7.2000e-003	2.7200e-003	3.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	3.2469	3.2469	2.9000e-004	0.0000	3.2542
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.5000e-004	0.0101	3.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	2.0000e-005	1.1000e-003	0.0000	3.1332	3.1332	8.0000e-005	0.0000	3.1351
Total	**1.7100e-003**	**8.1500e-003**	**0.0128**	**6.0000e-005**	**5.0300e-003**	**4.0000e-005**	**5.0700e-003**	**1.3400e-003**	**3.0000e-005**	**1.3800e-003**	**0.0000**	**6.3800**	**6.3800**	**3.7000e-004**	**0.0000**	**6.3893**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.8100e-003	0.0827	0.1222	1.9000e-004		3.9900e-003	3.9900e-003		3.6800e-003	3.6800e-003	0.0000	16.3803	16.3803	5.1500e-003	0.0000	16.5090
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.8100e-003**	**0.0827**	**0.1222**	**1.9000e-004**		**3.9900e-003**	**3.9900e-003**		**3.6800e-003**	**3.6800e-003**	**0.0000**	**16.3803**	**16.3803**	**5.1500e-003**	**0.0000**	**16.5090**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.8000e-004	4.0200e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2470	1.2470	3.0000e-005	0.0000	1.2478
Total	**5.9000e-004**	**3.8000e-004**	**4.0200e-003**	**1.0000e-005**	**1.6000e-003**	**1.0000e-005**	**1.6100e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2470**	**1.2470**	**3.0000e-005**	**0.0000**	**1.2478**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.8100e-003	0.0827	0.1222	1.9000e-004		3.9900e-003	3.9900e-003		3.6800e-003	3.6800e-003	0.0000	16.3803	16.3803	5.1500e-003	0.0000	16.5090
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.8100e-003**	**0.0827**	**0.1222**	**1.9000e-004**		**3.9900e-003**	**3.9900e-003**		**3.6800e-003**	**3.6800e-003**	**0.0000**	**16.3803**	**16.3803**	**5.1500e-003**	**0.0000**	**16.5090**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	3.8000e-004	4.0200e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2470	1.2470	3.0000e-005	0.0000	1.2478
Total	**5.9000e-004**	**3.8000e-004**	**4.0200e-003**	**1.0000e-005**	**1.6000e-003**	**1.0000e-005**	**1.6100e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2470**	**1.2470**	**3.0000e-005**	**0.0000**	**1.2478**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1288	1.1763	1.4146	2.3600e-003		0.0537	0.0537		0.0505	0.0505	0.0000	202.8680	202.8680	0.0480	0.0000	204.0673
Total	**0.1288**	**1.1763**	**1.4146**	**2.3600e-003**		**0.0537**	**0.0537**		**0.0505**	**0.0505**	**0.0000**	**202.8680**	**202.8680**	**0.0480**	**0.0000**	**204.0673**

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0126	0.4407	0.1341	1.5000e-003	0.0389	5.2000e-004	0.0394	0.0112	5.0000e-004	0.0117	0.0000	147.0553	147.0553	9.9400e-003	0.0000	147.3038
Worker	0.0802	0.0512	0.5431	1.8600e-003	0.2168	1.4400e-003	0.2183	0.0576	1.3300e-003	0.0589	0.0000	168.5822	168.5822	4.1800e-003	0.0000	168.6866
Total	**0.0927**	**0.4919**	**0.6773**	**3.3600e-003**	**0.2557**	**1.9600e-003**	**0.2577**	**0.0688**	**1.8300e-003**	**0.0707**	**0.0000**	**315.6375**	**315.6375**	**0.0141**	**0.0000**	**315.9904**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1288	1.1763	1.4146	2.3600e-003		0.0537	0.0537		0.0505	0.0505	0.0000	202.8677	202.8677	0.0480	0.0000	204.0670
Total	**0.1288**	**1.1763**	**1.4146**	**2.3600e-003**		**0.0537**	**0.0537**		**0.0505**	**0.0505**	**0.0000**	**202.8677**	**202.8677**	**0.0480**	**0.0000**	**204.0670**

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0126	0.4407	0.1341	1.5000e-003	0.0389	5.2000e-004	0.0394	0.0112	5.0000e-004	0.0117	0.0000	147.0553	147.0553	9.9400e-003	0.0000	147.3038
Worker	0.0802	0.0512	0.5431	1.8600e-003	0.2168	1.4400e-003	0.2183	0.0576	1.3300e-003	0.0589	0.0000	168.5822	168.5822	4.1800e-003	0.0000	168.6866
Total	**0.0927**	**0.4919**	**0.6773**	**3.3600e-003**	**0.2557**	**1.9600e-003**	**0.2577**	**0.0688**	**1.8300e-003**	**0.0707**	**0.0000**	**315.6375**	**315.6375**	**0.0141**	**0.0000**	**315.9904**

3.6 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0588	0.5362	0.6916	1.1600e-003		0.0227	0.0227		0.0213	0.0213	0.0000	99.7254	99.7254	0.0234	0.0000	100.3114
Total	**0.0588**	**0.5362**	**0.6916**	**1.1600e-003**		**0.0227**	**0.0227**		**0.0213**	**0.0213**	**0.0000**	**99.7254**	**99.7254**	**0.0234**	**0.0000**	**100.3114**

3.6 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.2134	0.0646	7.3000e-004	0.0191	2.5000e-004	0.0194	5.5200e-003	2.4000e-004	5.7600e-003	0.0000	71.8275	71.8275	4.8300e-003	0.0000	71.9483
Worker	0.0376	0.0232	0.2491	8.8000e-004	0.1066	7.0000e-004	0.1073	0.0283	6.4000e-004	0.0290	0.0000	79.4970	79.4970	1.8900e-003	0.0000	79.5443
Total	**0.0436**	**0.2366**	**0.3137**	**1.6100e-003**	**0.1257**	**9.5000e-004**	**0.1266**	**0.0338**	**8.8000e-004**	**0.0347**	**0.0000**	**151.3245**	**151.3245**	**6.7200e-003**	**0.0000**	**151.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0588	0.5362	0.6916	1.1600e-003		0.0227	0.0227		0.0213	0.0213	0.0000	99.7253	99.7253	0.0234	0.0000	100.3113
Total	**0.0588**	**0.5362**	**0.6916**	**1.1600e-003**		**0.0227**	**0.0227**		**0.0213**	**0.0213**	**0.0000**	**99.7253**	**99.7253**	**0.0234**	**0.0000**	**100.3113**

3.6 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.2134	0.0646	7.3000e-004	0.0191	2.5000e-004	0.0194	5.5200e-003	2.4000e-004	5.7600e-003	0.0000	71.8275	71.8275	4.8300e-003	0.0000	71.9483
Worker	0.0376	0.0232	0.2491	8.8000e-004	0.1066	7.0000e-004	0.1073	0.0283	6.4000e-004	0.0290	0.0000	79.4970	79.4970	1.8900e-003	0.0000	79.5443
Total	**0.0436**	**0.2366**	**0.3137**	**1.6100e-003**	**0.1257**	**9.5000e-004**	**0.1266**	**0.0338**	**8.8000e-004**	**0.0347**	**0.0000**	**151.3245**	**151.3245**	**6.7200e-003**	**0.0000**	**151.4927**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3431					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0268	0.0398	7.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	5.6172	5.6172	3.2000e-004	0.0000	5.6251
Total	**0.3471**	**0.0268**	**0.0398**	**7.0000e-005**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**5.6172**	**5.6172**	**3.2000e-004**	**0.0000**	**5.6251**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6100e-003	1.6700e-003	0.0177	6.0000e-005	7.0600e-003	5.0000e-005	7.1000e-003	1.8800e-003	4.0000e-005	1.9200e-003	0.0000	5.4869	5.4869	1.4000e-004	0.0000	5.4903
Total	**2.6100e-003**	**1.6700e-003**	**0.0177**	**6.0000e-005**	**7.0600e-003**	**5.0000e-005**	**7.1000e-003**	**1.8800e-003**	**4.0000e-005**	**1.9200e-003**	**0.0000**	**5.4869**	**5.4869**	**1.4000e-004**	**0.0000**	**5.4903**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3431					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0268	0.0398	7.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003	0.0000	5.6172	5.6172	3.2000e-004	0.0000	5.6251
Total	**0.3471**	**0.0268**	**0.0398**	**7.0000e-005**		**1.3400e-003**	**1.3400e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**5.6172**	**5.6172**	**3.2000e-004**	**0.0000**	**5.6251**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6100e-003	1.6700e-003	0.0177	6.0000e-005	7.0600e-003	5.0000e-005	7.1000e-003	1.8800e-003	4.0000e-005	1.9200e-003	0.0000	5.4869	5.4869	1.4000e-004	0.0000	5.4903
Total	**2.6100e-003**	**1.6700e-003**	**0.0177**	**6.0000e-005**	**7.0600e-003**	**5.0000e-005**	**7.1000e-003**	**1.8800e-003**	**4.0000e-005**	**1.9200e-003**	**0.0000**	**5.4869**	**5.4869**	**1.4000e-004**	**0.0000**	**5.4903**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6705					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3500e-003	0.0493	0.0778	1.3000e-004		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	10.9790	10.9790	6.0000e-004	0.0000	10.9940
Total	**0.6779**	**0.0493**	**0.0778**	**1.3000e-004**		**2.2100e-003**	**2.2100e-003**		**2.2100e-003**	**2.2100e-003**	**0.0000**	**10.9790**	**10.9790**	**6.0000e-004**	**0.0000**	**10.9940**

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8700e-003	3.0000e-003	0.0323	1.1000e-004	0.0138	9.0000e-005	0.0139	3.6700e-003	8.0000e-005	3.7500e-003	0.0000	10.2909	10.2909	2.5000e-004	0.0000	10.2970
Total	**4.8700e-003**	**3.0000e-003**	**0.0323**	**1.1000e-004**	**0.0138**	**9.0000e-005**	**0.0139**	**3.6700e-003**	**8.0000e-005**	**3.7500e-003**	**0.0000**	**10.2909**	**10.2909**	**2.5000e-004**	**0.0000**	**10.2970**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6705					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3500e-003	0.0493	0.0778	1.3000e-004		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	10.9790	10.9790	6.0000e-004	0.0000	10.9940
Total	**0.6779**	**0.0493**	**0.0778**	**1.3000e-004**		**2.2100e-003**	**2.2100e-003**		**2.2100e-003**	**2.2100e-003**	**0.0000**	**10.9790**	**10.9790**	**6.0000e-004**	**0.0000**	**10.9940**

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8700e-003	3.0000e-003	0.0323	1.1000e-004	0.0138	9.0000e-005	0.0139	3.6700e-003	8.0000e-005	3.7500e-003	0.0000	10.2909	10.2909	2.5000e-004	0.0000	10.2970
Total	**4.8700e-003**	**3.0000e-003**	**0.0323**	**1.1000e-004**	**0.0138**	**9.0000e-005**	**0.0139**	**3.6700e-003**	**8.0000e-005**	**3.7500e-003**	**0.0000**	**10.2909**	**10.2909**	**2.5000e-004**	**0.0000**	**10.2970**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3287	1.3207	3.3293	0.0118	1.1535	9.4500e-003	1.1629	0.3088	8.7800e-003	0.3176	0.0000	1,092.4881	1,092.4881	0.0570	0.0000	1,093.9134
Unmitigated	0.3287	1.3207	3.3293	0.0118	1.1535	9.4500e-003	1.1629	0.3088	8.7800e-003	0.3176	0.0000	1,092.4881	1,092.4881	0.0570	0.0000	1,093.9134

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,741.55	1,741.55	1741.55	3,061,854	3,061,854
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,741.55	1,741.55	1,741.55	3,061,854	3,061,854

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	4.83	0.00	0.00	100.00	0.00	0.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.611343	0.038414	0.178161	0.100214	0.013382	0.005338	0.017151	0.024839	0.001931	0.001783	0.005765	0.000770	0.000908
City Park	0.611343	0.038414	0.178161	0.100214	0.013382	0.005338	0.017151	0.024839	0.001931	0.001783	0.005765	0.000770	0.000908
Enclosed Parking with Elevator	0.611343	0.038414	0.178161	0.100214	0.013382	0.005338	0.017151	0.024839	0.001931	0.001783	0.005765	0.000770	0.000908

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	726.2971	726.2971	0.0292	6.0500e-003	728.8303
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	726.2971	726.2971	0.0292	6.0500e-003	728.8303
NaturalGas Mitigated	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	120.9099	120.9099	2.3200e-003	2.2200e-003	121.6284
NaturalGas Unmitigated	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	120.9099	120.9099	2.3200e-003	2.2200e-003	121.6284

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.26577e+006	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	120.9099	120.9099	2.3200e-003	2.2200e-003	121.6284
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0122**	**0.1044**	**0.0444**	**6.7000e-004**		**8.4400e-003**	**8.4400e-003**		**8.4400e-003**	**8.4400e-003**	**0.0000**	**120.9099**	**120.9099**	**2.3200e-003**	**2.2200e-003**	**121.6284**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.26577e+006	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	120.9099	120.9099	2.3200e-003	2.2200e-003	121.6284
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0122**	**0.1044**	**0.0444**	**6.7000e-004**		**8.4400e-003**	**8.4400e-003**		**8.4400e-003**	**8.4400e-003**	**0.0000**	**120.9099**	**120.9099**	**2.3200e-003**	**2.2200e-003**	**121.6284**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.2215e+006	399.1981	0.0161	3.3200e-003	400.5905
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.00089e+006	327.0990	0.0132	2.7200e-003	328.2399
Total		**726.2971**	**0.0292**	**6.0400e-003**	**728.8303**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.2215e+006	399.1981	0.0161	3.3200e-003	400.5905
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.00089e+006	327.0990	0.0132	2.7200e-003	328.2399
Total		**726.2971**	**0.0292**	**6.0400e-003**	**728.8303**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3856	0.1402	2.3150	8.5000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	135.8352	135.8352	6.0900e-003	2.4200e-003	136.7094
Unmitigated	1.3856	0.1402	2.3150	8.5000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	135.8352	135.8352	6.0900e-003	2.4200e-003	136.7094

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1014					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2026					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0134	0.1141	0.0486	7.3000e-004		9.2200e-003	9.2200e-003		9.2200e-003	9.2200e-003	0.0000	132.1283	132.1283	2.5300e-003	2.4200e-003	132.9134
Landscaping	0.0683	0.0261	2.2664	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7069	3.7069	3.5600e-003	0.0000	3.7960
Total	**1.3856**	**0.1402**	**2.3150**	**8.5000e-004**		**0.0218**	**0.0218**		**0.0218**	**0.0218**	**0.0000**	**135.8352**	**135.8352**	**6.0900e-003**	**2.4200e-003**	**136.7094**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1014					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2026					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0134	0.1141	0.0486	7.3000e-004		9.2200e-003	9.2200e-003		9.2200e-003	9.2200e-003	0.0000	132.1283	132.1283	2.5300e-003	2.4200e-003	132.9134
Landscaping	0.0683	0.0261	2.2664	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7069	3.7069	3.5600e-003	0.0000	3.7960
Total	**1.3856**	**0.1402**	**2.3150**	**8.5000e-004**		**0.0218**	**0.0218**		**0.0218**	**0.0218**	**0.0000**	**135.8352**	**135.8352**	**6.0900e-003**	**2.4200e-003**	**136.7094**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	112.3713	0.5223	0.0131	129.3413
Unmitigated	140.4642	0.6529	0.0164	161.6766

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	19.872 / 12.528	136.3544	0.6528	0.0164	157.5525
City Park	0 / 1.13191	4.1098	1.7000e-004	3.0000e-005	4.1241
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**140.4642**	**0.6529**	**0.0164**	**161.6766**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	15.8976 / 10.0224	109.0835	0.5222	0.0131	126.0420
City Park	0 / 0.905526	3.2878	1.3000e-004	3.0000e-005	3.2993
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**112.3713**	**0.5223**	**0.0131**	**129.3413**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.3719	1.2630	0.0000	52.9480
Unmitigated	28.4959	1.6841	0.0000	70.5973

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	140.3	28.4796	1.6831	0.0000	70.5571
City Park	0.08	0.0162	9.6000e-004	0.0000	0.0402
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**28.4959**	**1.6841**	**0.0000**	**70.5973**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	105.225	21.3597	1.2623	0.0000	52.9178
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**21.3719**	**1.2630**	**0.0000**	**52.9480**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 2 Project

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	427.00	Space	0.00	170,800.00	0
City Park	0.95	Acre	0.95	41,382.00	0
Apartments High Rise	305.00	Dwelling Unit	2.85	305,000.00	872

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 2 project components.

Land Use - Apartments above a 3-level parking structure.

Construction Phase - Schedule adjust to fit 20 month overall duration.
Architectural coating assumed to be concurrent with last 50% of building construction.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Demolition equipment adjusted for existing structures size.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment added for grubbing and asphalt/concrete removal.

Trips and VMT - Maximum painting crew = 20.

Demolition -

Grading - 3,060 CY vegetation/soil/asphalt/concrete exported during site prep.
1,000 CY soil exported during excavation for underground utilities and creek channel impprovements.
All other cut/fill assumed to be balanced onsite.

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Trip rates and distance per traffic study.
All project trips applied to apartments.

Woodstoves - No woodstoves or wood burning fireplaces.

Area Coating - Coating VOC limits per SDAPCD Rule 67.

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Fugitive dust mitigation per SDCPCD Rule 55.

Water Mitigation - 20% water reduction per 2019 CALGreen.

Waste Mitigation - 25% solid waste reduction per AB341.

Alvarado SP Phase 2 Project - San Diego County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	130.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	93.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	50.00
tblFireplaces	NumberWood	106.75	0.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialExported	0.00	3,060.00
tblLandUse	LotAcreage	3.84	0.00
tblLandUse	LotAcreage	4.92	2.85
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	WorkerTripNumber	62.00	40.00

tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.98	5.71
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	3.65	5.71
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	4.20	5.71
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	15.25	0.00
tblWoodstoves	NumberNoncatalytic	15.25	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7707	18.1855	15.1549	0.0317	6.7464	0.7762	7.5225	3.4181	0.7141	4.1322	0.0000	3,085.4408	3,085.4408	0.9416	0.0000	3,108.9811
2024	18.5677	20.3173	26.5664	0.0706	6.7075	0.7256	7.4331	3.4085	0.6676	4.0761	0.0000	7,036.9247	7,036.9247	0.9415	0.0000	7,057.1230
2025	18.3984	19.1454	25.9831	0.0695	3.3205	0.6034	3.9239	0.8910	0.5703	1.4613	0.0000	6,930.7803	6,930.7803	0.7980	0.0000	6,950.7298
Maximum	**18.5677**	**20.3173**	**26.5664**	**0.0706**	**6.7464**	**0.7762**	**7.5225**	**3.4181**	**0.7141**	**4.1322**	**0.0000**	**7,036.9247**	**7,036.9247**	**0.9416**	**0.0000**	**7,057.1230**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7707	18.1855	15.1549	0.0317	3.1417	0.7762	3.9179	1.5658	0.7141	2.2799	0.0000	3,085.4408	3,085.4408	0.9416	0.0000	3,108.9811
2024	18.5677	20.3173	26.5664	0.0706	3.3205	0.7256	4.0195	1.5563	0.6676	2.2239	0.0000	7,036.9247	7,036.9247	0.9415	0.0000	7,057.1230
2025	18.3984	19.1454	25.9831	0.0695	3.3205	0.6034	3.9239	0.8910	0.5703	1.4613	0.0000	6,930.7803	6,930.7803	0.7980	0.0000	6,950.7298
Maximum	**18.5677**	**20.3173**	**26.5664**	**0.0706**	**3.3205**	**0.7762**	**4.0195**	**1.5658**	**0.7141**	**2.2799**	**0.0000**	**7,036.9247**	**7,036.9247**	**0.9416**	**0.0000**	**7,057.1230**

Alvarado SP Phase 2 Project - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**41.68**	**0.00**	**37.17**	**48.00**	**0.00**	**38.31**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2295	3.0726	26.3667	0.0191		0.3646	0.3646		0.3646	0.3646	0.0000	3,597.7551	3,597.7551	0.1117	0.0651	3,619.9557
Energy	0.0669	0.5721	0.2434	3.6500e-003		0.0463	0.0463		0.0463	0.0463		730.3032	730.3032	0.0140	0.0134	734.6430
Mobile	1.8573	7.2249	18.6058	0.0640	6.4902	0.0521	6.5423	1.7341	0.0485	1.7826		6,544.3656	6,544.3656	0.3505		6,553.1277
Total	**10.1537**	**10.8696**	**45.2160**	**0.0868**	**6.4902**	**0.4630**	**6.9532**	**1.7341**	**0.4593**	**2.1935**	**0.0000**	**10,872.4239**	**10,872.4239**	**0.4762**	**0.0785**	**10,907.7264**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.2295	3.0726	26.3667	0.0191		0.3646	0.3646		0.3646	0.3646	0.0000	3,597.7551	3,597.7551	0.1117	0.0651	3,619.9557
Energy	0.0669	0.5721	0.2434	3.6500e-003		0.0463	0.0463		0.0463	0.0463		730.3032	730.3032	0.0140	0.0134	734.6430
Mobile	1.8573	7.2249	18.6058	0.0640	6.4902	0.0521	6.5423	1.7341	0.0485	1.7826		6,544.3656	6,544.3656	0.3505		6,553.1277
Total	**10.1537**	**10.8696**	**45.2160**	**0.0868**	**6.4902**	**0.4630**	**6.9532**	**1.7341**	**0.4593**	**2.1935**	**0.0000**	**10,872.4239**	**10,872.4239**	**0.4762**	**0.0785**	**10,907.7264**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2023	9/14/2023	5	10	
2	Site Preparation	Site Preparation	9/15/2023	11/23/2023	5	50	
3	Grading/Utilities	Grading	11/24/2023	4/2/2024	5	93	
4	Paving	Paving	4/3/2024	4/30/2024	5	20	
5	Building Construction	Building Construction	5/1/2024	4/30/2025	5	261	
6	Architectural Coating	Architectural Coating	10/31/2024	4/30/2025	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 617,625; Residential Outdoor: 205,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,248 (Architectural Coating – sqft)

OffRoad Equipment

Alvarado SP Phase 2 Project - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	4.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Excavators	1	4.00	158	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	4.00	203	0.36
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading/Utilities	Excavators	1	8.00	158	0.38
Grading/Utilities	Graders	1	8.00	187	0.41
Grading/Utilities	Rubber Tired Dozers	1	8.00	247	0.40
Grading/Utilities	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	0.00	11.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	383.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Utilities	6	15.00	0.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	309.00	67.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2392	0.0000	0.2392	0.0362	0.0000	0.0362			0.0000			0.0000
Off-Road	1.0402	9.9679	8.1928	0.0168		0.4609	0.4609		0.4291	0.4291		1,623.4392	1,623.4392	0.4438		1,634.5345
Total	**1.0402**	**9.9679**	**8.1928**	**0.0168**	**0.2392**	**0.4609**	**0.7001**	**0.0362**	**0.4291**	**0.4654**		**1,623.4392**	**1,623.4392**	**0.4438**		**1,634.5345**

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6300e-003	0.1786	0.0676	7.9000e-004	0.0192	3.4000e-004	0.0196	5.2700e-003	3.3000e-004	5.5900e-003		87.1517	87.1517	7.9900e-003		87.3516
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0282	0.0168	0.1716	5.7000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.0000e-004	0.0178		56.6717	56.6717	1.4700e-003		56.7085
Total	**0.0339**	**0.1954**	**0.2391**	**1.3600e-003**	**0.0849**	**7.8000e-004**	**0.0857**	**0.0227**	**7.3000e-004**	**0.0234**		**143.8234**	**143.8234**	**9.4600e-003**		**144.0600**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1076	0.0000	0.1076	0.0163	0.0000	0.0163			0.0000			0.0000
Off-Road	1.0402	9.9679	8.1928	0.0168		0.4609	0.4609		0.4291	0.4291	0.0000	1,623.4392	1,623.4392	0.4438		1,634.5345
Total	**1.0402**	**9.9679**	**8.1928**	**0.0168**	**0.1076**	**0.4609**	**0.5685**	**0.0163**	**0.4291**	**0.4454**	**0.0000**	**1,623.4392**	**1,623.4392**	**0.4438**		**1,634.5345**

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6300e-003	0.1786	0.0676	7.9000e-004	0.0192	3.4000e-004	0.0196	5.2700e-003	3.3000e-004	5.5900e-003		87.1517	87.1517	7.9900e-003		87.3516
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0282	0.0168	0.1716	5.7000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.0000e-004	0.0178		56.6717	56.6717	1.4700e-003		56.7085
Total	**0.0339**	**0.1954**	**0.2391**	**1.3600e-003**	**0.0849**	**7.8000e-004**	**0.0857**	**0.0227**	**7.3000e-004**	**0.0234**		**143.8234**	**143.8234**	**9.4600e-003**		**144.0600**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0307	0.0000	6.0307	3.3115	0.0000	3.3115			0.0000			0.0000
Off-Road	1.0656	10.7645	7.7214	0.0174		0.4791	0.4791		0.4408	0.4408		1,681.4106	1,681.4106	0.5438		1,695.0056
Total	**1.0656**	**10.7645**	**7.7214**	**0.0174**	**6.0307**	**0.4791**	**6.5098**	**3.3115**	**0.4408**	**3.7523**		**1,681.4106**	**1,681.4106**	**0.5438**		**1,695.0056**

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0392	1.2435	0.4705	5.5000e-003	0.1339	2.3700e-003	0.1362	0.0367	2.2700e-003	0.0390		606.8928	606.8928	0.0557		608.2845
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0353	0.0210	0.2144	7.1000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		70.8396	70.8396	1.8400e-003		70.8856
Total	**0.0745**	**1.2645**	**0.6849**	**6.2100e-003**	**0.2160**	**2.9100e-003**	**0.2189**	**0.0585**	**2.7700e-003**	**0.0612**		**677.7325**	**677.7325**	**0.0575**		**679.1700**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7138	0.0000	2.7138	1.4902	0.0000	1.4902			0.0000			0.0000
Off-Road	1.0656	10.7645	7.7214	0.0174		0.4791	0.4791		0.4408	0.4408	0.0000	1,681.4106	1,681.4106	0.5438		1,695.0056
Total	**1.0656**	**10.7645**	**7.7214**	**0.0174**	**2.7138**	**0.4791**	**3.1929**	**1.4902**	**0.4408**	**1.9310**	**0.0000**	**1,681.4106**	**1,681.4106**	**0.5438**		**1,695.0056**

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0392	1.2435	0.4705	5.5000e-003	0.1339	2.3700e-003	0.1362	0.0367	2.2700e-003	0.0390		606.8928	606.8928	0.0557		608.2845
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0353	0.0210	0.2144	7.1000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		70.8396	70.8396	1.8400e-003		70.8856
Total	**0.0745**	**1.2645**	**0.6849**	**6.2100e-003**	**0.2160**	**2.9100e-003**	**0.2189**	**0.0585**	**2.7700e-003**	**0.0612**		**677.7325**	**677.7325**	**0.0575**		**679.1700**

3.4 Grading/Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5539	0.0000	6.5539	3.3677	0.0000	3.3677			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**6.5539**	**0.7749**	**7.3288**	**3.3677**	**0.7129**	**4.0806**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

3.4 Grading/Utilities - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8900e-003	0.2182	0.0826	9.6000e-004	0.0693	4.2000e-004	0.0697	0.0177	4.0000e-004	0.0181		106.4904	106.4904	9.7700e-003		106.7346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0315	0.3217	1.0700e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		106.2594	106.2594	2.7600e-003		106.3284
Total	**0.0598**	**0.2497**	**0.4042**	**2.0300e-003**	**0.1925**	**1.2400e-003**	**0.1937**	**0.0504**	**1.1500e-003**	**0.0515**		**212.7498**	**212.7498**	**0.0125**		**213.0629**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9492	0.0000	2.9492	1.5155	0.0000	1.5155			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**2.9492**	**0.7749**	**3.7242**	**1.5155**	**0.7129**	**2.2284**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

3.4 Grading/Utilities - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8900e-003	0.2182	0.0826	9.6000e-004	0.0693	4.2000e-004	0.0697	0.0177	4.0000e-004	0.0181		106.4904	106.4904	9.7700e-003		106.7346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0315	0.3217	1.0700e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		106.2594	106.2594	2.7600e-003		106.3284
Total	**0.0598**	**0.2497**	**0.4042**	**2.0300e-003**	**0.1925**	**1.2400e-003**	**0.1937**	**0.0504**	**1.1500e-003**	**0.0515**		**212.7498**	**212.7498**	**0.0125**		**213.0629**

3.4 Grading/Utilities - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5539	0.0000	6.5539	3.3677	0.0000	3.3677			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.0541	2,873.0541	0.9292		2,896.2842
Total	**1.6617**	**17.0310**	**14.7594**	**0.0297**	**6.5539**	**0.7244**	**7.2783**	**3.3677**	**0.6665**	**4.0342**		**2,873.0541**	**2,873.0541**	**0.9292**		**2,896.2842**

3.4 Grading/Utilities - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7700e-003	0.2127	0.0832	9.6000e-004	0.0304	4.1000e-004	0.0308	8.1300e-003	3.9000e-004	8.5200e-003		105.7583	105.7583	9.8100e-003		106.0035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0504	0.0289	0.3003	1.0200e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		102.0768	102.0768	2.5300e-003		102.1401
Total	**0.0572**	**0.2416**	**0.3835**	**1.9800e-003**	**0.1536**	**1.2100e-003**	**0.1548**	**0.0408**	**1.1300e-003**	**0.0419**		**207.8351**	**207.8351**	**0.0123**		**208.1436**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9492	0.0000	2.9492	1.5155	0.0000	1.5155			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842
Total	**1.6617**	**17.0310**	**14.7594**	**0.0297**	**2.9492**	**0.7244**	**3.6737**	**1.5155**	**0.6665**	**2.1819**	**0.0000**	**2,873.0541**	**2,873.0541**	**0.9292**		**2,896.2842**

3.4 Grading/Utilities - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7700e-003	0.2127	0.0832	9.6000e-004	0.0304	4.1000e-004	0.0308	8.1300e-003	3.9000e-004	8.5200e-003		105.7583	105.7583	9.8100e-003		106.0035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0504	0.0289	0.3003	1.0200e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		102.0768	102.0768	2.5300e-003		102.1401
Total	**0.0572**	**0.2416**	**0.3835**	**1.9800e-003**	**0.1536**	**1.2100e-003**	**0.1548**	**0.0408**	**1.1300e-003**	**0.0419**		**207.8351**	**207.8351**	**0.0123**		**208.1436**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8814**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**		**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0385	0.4004	1.3600e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		136.1024	136.1024	3.3800e-003		136.1868
Total	**0.0673**	**0.0385**	**0.4004**	**1.3600e-003**	**0.1643**	**1.0700e-003**	**0.1654**	**0.0436**	**9.8000e-004**	**0.0446**		**136.1024**	**136.1024**	**3.3800e-003**		**136.1868**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	0.0000	1,805.6205	1,805.6205	0.5673		1,819.8039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8814**	**8.2730**	**12.2210**	**0.0189**		**0.3987**	**0.3987**		**0.3685**	**0.3685**	**0.0000**	**1,805.6205**	**1,805.6205**	**0.5673**		**1,819.8039**

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0385	0.4004	1.3600e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		136.1024	136.1024	3.3800e-003		136.1868
Total	**0.0673**	**0.0385**	**0.4004**	**1.3600e-003**	**0.1643**	**1.0700e-003**	**0.1654**	**0.0436**	**9.8000e-004**	**0.0446**		**136.1024**	**136.1024**	**3.3800e-003**		**136.1868**

3.6 Building Construction - 2024

Unmitigated Construction On-Site

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

3.6 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1479	4.9828	1.6031	0.0169	0.4536	6.1300e-003	0.4597	0.1306	5.8600e-003	0.1364		1,824.7911	1,824.7911	0.1288		1,828.0119
Worker	1.0391	0.5950	6.1856	0.0211	2.5384	0.0165	2.5549	0.6733	0.0152	0.6885		2,102.7819	2,102.7819	0.0522		2,104.0856
Total	**1.1870**	**5.5778**	**7.7887**	**0.0380**	**2.9919**	**0.0226**	**3.0146**	**0.8039**	**0.0211**	**0.8249**		**3,927.5729**	**3,927.5729**	**0.1810**		**3,932.0975**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.6 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1479	4.9828	1.6031	0.0169	0.4536	6.1300e-003	0.4597	0.1306	5.8600e-003	0.1364		1,824.7911	1,824.7911	0.1288		1,828.0119
Worker	1.0391	0.5950	6.1856	0.0211	2.5384	0.0165	2.5549	0.6733	0.0152	0.6885		2,102.7819	2,102.7819	0.0522		2,104.0856
Total	**1.1870**	**5.5778**	**7.7887**	**0.0380**	**2.9919**	**0.0226**	**3.0146**	**0.8039**	**0.0211**	**0.8249**		**3,927.5729**	**3,927.5729**	**0.1810**		**3,932.0975**

3.6 Building Construction - 2025

Unmitigated Construction On-Site

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

3.6 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1434	4.9107	1.5703	0.0168	0.4536	5.9300e-003	0.4595	0.1306	5.6700e-003	0.1362		1,813.8687	1,813.8687	0.1273		1,817.0522
Worker	0.9941	0.5485	5.7719	0.0202	2.5384	0.0163	2.5546	0.6733	0.0150	0.6883		2,017.7869	2,017.7869	0.0481		2,018.9898
Total	**1.1375**	**5.4592**	**7.3421**	**0.0370**	**2.9919**	**0.0222**	**3.0141**	**0.8039**	**0.0206**	**0.8245**		**3,831.6557**	**3,831.6557**	**0.1755**		**3,836.0420**

Mitigated Construction On-Site

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

3.6 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1434	4.9107	1.5703	0.0168	0.4536	5.9300e-003	0.4595	0.1306	5.6700e-003	0.1362		1,813.8687	1,813.8687	0.1273		1,817.0522
Worker	0.9941	0.5485	5.7719	0.0202	2.5384	0.0163	2.5546	0.6733	0.0150	0.6883		2,017.7869	2,017.7869	0.0481		2,018.9898
Total	**1.1375**	**5.4592**	**7.3421**	**0.0370**	**2.9919**	**0.0222**	**3.0141**	**0.8039**	**0.0206**	**0.8245**		**3,831.6557**	**3,831.6557**	**0.1755**		**3,836.0420**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.5939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**15.7747**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1345	0.0770	0.8007	2.7300e-003	0.3286	2.1400e-003	0.3307	0.0872	1.9700e-003	0.0891		272.2048	272.2048	6.7500e-003		272.3735
Total	**0.1345**	**0.0770**	**0.8007**	**2.7300e-003**	**0.3286**	**2.1400e-003**	**0.3307**	**0.0872**	**1.9700e-003**	**0.0891**		**272.2048**	**272.2048**	**6.7500e-003**		**272.3735**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.5939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**15.7747**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1345	0.0770	0.8007	2.7300e-003	0.3286	2.1400e-003	0.3307	0.0872	1.9700e-003	0.0891		272.2048	272.2048	6.7500e-003		272.3735
Total	**0.1345**	**0.0770**	**0.8007**	**2.7300e-003**	**0.3286**	**2.1400e-003**	**0.3307**	**0.0872**	**1.9700e-003**	**0.0891**		**272.2048**	**272.2048**	**6.7500e-003**		**272.3735**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.5939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**15.7648**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1287	0.0710	0.7472	2.6200e-003	0.3286	2.1000e-003	0.3307	0.0872	1.9400e-003	0.0891		261.2022	261.2022	6.2300e-003		261.3579
Total	**0.1287**	**0.0710**	**0.7472**	**2.6200e-003**	**0.3286**	**2.1000e-003**	**0.3307**	**0.0872**	**1.9400e-003**	**0.0891**		**261.2022**	**261.2022**	**6.2300e-003**		**261.3579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.5939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**15.7648**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1287	0.0710	0.7472	2.6200e-003	0.3286	2.1000e-003	0.3307	0.0872	1.9400e-003	0.0891		261.2022	261.2022	6.2300e-003		261.3579
Total	**0.1287**	**0.0710**	**0.7472**	**2.6200e-003**	**0.3286**	**2.1000e-003**	**0.3307**	**0.0872**	**1.9400e-003**	**0.0891**		**261.2022**	**261.2022**	**6.2300e-003**		**261.3579**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8573	7.2249	18.6058	0.0640	6.4902	0.0521	6.5423	1.7341	0.0485	1.7826		6,544.3656	6,544.3656	0.3505		6,553.1277
Unmitigated	1.8573	7.2249	18.6058	0.0640	6.4902	0.0521	6.5423	1.7341	0.0485	1.7826		6,544.3656	6,544.3656	0.3505		6,553.1277

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,741.55	1,741.55	1741.55	3,061,854	3,061,854
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,741.55	1,741.55	1,741.55	3,061,854	3,061,854

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	4.83	0.00	0.00	100.00	0.00	0.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.611343	0.038414	0.178161	0.100214	0.013382	0.005338	0.017151	0.024839	0.001931	0.001783	0.005765	0.000770	0.000908
City Park	0.611343	0.038414	0.178161	0.100214	0.013382	0.005338	0.017151	0.024839	0.001931	0.001783	0.005765	0.000770	0.000908
Enclosed Parking with Elevator	0.611343	0.038414	0.178161	0.100214	0.013382	0.005338	0.017151	0.024839	0.001931	0.001783	0.005765	0.000770	0.000908

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0669	0.5721	0.2434	3.6500e-003		0.0463	0.0463		0.0463	0.0463		730.3032	730.3032	0.0140	0.0134	734.6430
NaturalGas Unmitigated	0.0669	0.5721	0.2434	3.6500e-003		0.0463	0.0463		0.0463	0.0463		730.3032	730.3032	0.0140	0.0134	734.6430

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6207.58	0.0669	0.5721	0.2434	3.6500e-003		0.0463	0.0463		0.0463	0.0463		730.3032	730.3032	0.0140	0.0134	734.6430
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0669**	**0.5721**	**0.2434**	**3.6500e-003**		**0.0463**	**0.0463**		**0.0463**	**0.0463**		**730.3032**	**730.3032**	**0.0140**	**0.0134**	**734.6430**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6.20758	0.0669	0.5721	0.2434	3.6500e-003		0.0463	0.0463		0.0463	0.0463		730.3032	730.3032	0.0140	0.0134	734.6430
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0669**	**0.5721**	**0.2434**	**3.6500e-003**		**0.0463**	**0.0463**		**0.0463**	**0.0463**		**730.3032**	**730.3032**	**0.0140**	**0.0134**	**734.6430**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.2295	3.0726	26.3667	0.0191		0.3646	0.3646		0.3646	0.3646	0.0000	3,597.7551	3,597.7551	0.1117	0.0651	3,619.9557
Unmitigated	8.2295	3.0726	26.3667	0.0191		0.3646	0.3646		0.3646	0.3646	0.0000	3,597.7551	3,597.7551	0.1117	0.0651	3,619.9557

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5896					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3256	2.7827	1.1841	0.0178		0.2250	0.2250		0.2250	0.2250	0.0000	3,552.3529	3,552.3529	0.0681	0.0651	3,573.4628
Landscaping	0.7588	0.2900	25.1826	1.3300e-003		0.1396	0.1396		0.1396	0.1396		45.4021	45.4021	0.0436		46.4929
Total	**8.2295**	**3.0727**	**26.3668**	**0.0191**		**0.3646**	**0.3646**		**0.3646**	**0.3646**	**0.0000**	**3,597.7551**	**3,597.7551**	**0.1117**	**0.0651**	**3,619.9557**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5896					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3256	2.7827	1.1841	0.0178		0.2250	0.2250		0.2250	0.2250	0.0000	3,552.3529	3,552.3529	0.0681	0.0651	3,573.4628
Landscaping	0.7588	0.2900	25.1826	1.3300e-003		0.1396	0.1396		0.1396	0.1396		45.4021	45.4021	0.0436		46.4929
Total	**8.2295**	**3.0727**	**26.3668**	**0.0191**		**0.3646**	**0.3646**		**0.3646**	**0.3646**	**0.0000**	**3,597.7551**	**3,597.7551**	**0.1117**	**0.0651**	**3,619.9557**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 1 Existing

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	93.00	Dwelling Unit	8.20	111,600.00	266

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 1 existing use operational emissions.

Land Use - Existing use = RV park.

Construction Phase - No construction.

Off-road Equipment -

Off-road Equipment - No construction.

Trips and VMT - No construction.

Demolition -

Grading -

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Existing use trips and distance per traffic study.

Woodstoves - No hearths.

Area Coating - No residential painting.

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	75330	0
tblAreaCoating	Area_Residential_Interior	225990	0
tblFireplaces	NumberGas	51.15	0.00
tblFireplaces	NumberWood	32.55	0.00
tblLandUse	LotAcreage	11.72	8.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	5.00	5.17
tblVehicleTrips	SU_TR	4.36	5.17
tblVehicleTrips	WD_TR	4.99	5.17
tblWoodstoves	NumberCatalytic	4.65	0.00
tblWoodstoves	NumberNoncatalytic	4.65	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4568	7.9900e-003	0.6920	4.0000e-005		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	1.1280	1.1280	1.0900e-003	0.0000	1.1553
Energy	0.0116	0.0990	0.0421	6.3000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	279.4921	279.4921	8.8300e-003	3.4700e-003	280.7483
Mobile	0.1226	0.5026	1.2514	3.8400e-003	0.3186	3.3700e-003	0.3219	0.0853	3.1500e-003	0.0885	0.0000	354.4943	354.4943	0.0204	0.0000	355.0044
Waste						0.0000	0.0000		0.0000	0.0000	8.6840	0.0000	8.6840	0.5132	0.0000	21.5141
Water						0.0000	0.0000		0.0000	0.0000	1.9223	39.6546	41.5769	0.1990	4.9900e-003	48.0406
Total	**0.5910**	**0.6096**	**1.9856**	**4.5100e-003**	**0.3186**	**0.0152**	**0.3338**	**0.0853**	**0.0150**	**0.1003**	**10.6063**	**674.7690**	**685.3753**	**0.7426**	**8.4600e-003**	**706.4628**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4568	7.9900e-003	0.6920	4.0000e-005		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	1.1280	1.1280	1.0900e-003	0.0000	1.1553
Energy	0.0116	0.0990	0.0421	6.3000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	279.4921	279.4921	8.8300e-003	3.4700e-003	280.7483
Mobile	0.1226	0.5026	1.2514	3.8400e-003	0.3186	3.3700e-003	0.3219	0.0853	3.1500e-003	0.0885	0.0000	354.4943	354.4943	0.0204	0.0000	355.0044
Waste						0.0000	0.0000		0.0000	0.0000	8.6840	0.0000	8.6840	0.5132	0.0000	21.5141
Water						0.0000	0.0000		0.0000	0.0000	1.9223	39.6546	41.5769	0.1990	4.9900e-003	48.0406
Total	**0.5910**	**0.6096**	**1.9856**	**4.5100e-003**	**0.3186**	**0.0152**	**0.3338**	**0.0853**	**0.0150**	**0.1003**	**10.6063**	**674.7690**	**685.3753**	**0.7426**	**8.4600e-003**	**706.4628**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1226	0.5026	1.2514	3.8400e-003	0.3186	3.3700e-003	0.3219	0.0853	3.1500e-003	0.0885	0.0000	354.4943	354.4943	0.0204	0.0000	355.0044
Unmitigated	0.1226	0.5026	1.2514	3.8400e-003	0.3186	3.3700e-003	0.3219	0.0853	3.1500e-003	0.0885	0.0000	354.4943	354.4943	0.0204	0.0000	355.0044

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	480.81	480.81	480.81	845,322	845,322
Total	480.81	480.81	480.81	845,322	845,322

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	4.83	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	164.8662	164.8662	6.6400e-003	1.3700e-003	165.4412
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	164.8662	164.8662	6.6400e-003	1.3700e-003	165.4412
NaturalGas Mitigated	0.0116	0.0990	0.0421	6.3000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	114.6259	114.6259	2.2000e-003	2.1000e-003	115.3071
NaturalGas Unmitigated	0.0116	0.0990	0.0421	6.3000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	114.6259	114.6259	2.2000e-003	2.1000e-003	115.3071

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Mobile Home Park	2.14801e+006	0.0116	0.0990	0.0421	6.3000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	114.6259	114.6259	2.2000e-003	2.1000e-003	115.3071
Total		**0.0116**	**0.0990**	**0.0421**	**6.3000e-004**		**8.0000e-003**	**8.0000e-003**		**8.0000e-003**	**8.0000e-003**	**0.0000**	**114.6259**	**114.6259**	**2.2000e-003**	**2.1000e-003**	**115.3071**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Mobile Home Park	2.14801e+006	0.0116	0.0990	0.0421	6.3000e-004		8.0000e-003	8.0000e-003		8.0000e-003	8.0000e-003	0.0000	114.6259	114.6259	2.2000e-003	2.1000e-003	115.3071
Total		**0.0116**	**0.0990**	**0.0421**	**6.3000e-004**		**8.0000e-003**	**8.0000e-003**		**8.0000e-003**	**8.0000e-003**	**0.0000**	**114.6259**	**114.6259**	**2.2000e-003**	**2.1000e-003**	**115.3071**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	504473	164.8662	6.6400e-003	1.3700e-003	165.4412
Total		**164.8662**	**6.6400e-003**	**1.3700e-003**	**165.4412**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	504473	164.8662	6.6400e-003	1.3700e-003	165.4412
Total		**164.8662**	**6.6400e-003**	**1.3700e-003**	**165.4412**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4568	7.9900e-003	0.6920	4.0000e-005		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	1.1280	1.1280	1.0900e-003	0.0000	1.1553
Unmitigated	0.4568	7.9900e-003	0.6920	4.0000e-005		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	1.1280	1.1280	1.0900e-003	0.0000	1.1553

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0210	7.9900e-003	0.6920	4.0000e-005		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	1.1280	1.1280	1.0900e-003	0.0000	1.1553
Total	**0.4568**	**7.9900e-003**	**0.6920**	**4.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.8100e-003**	**3.8100e-003**	**0.0000**	**1.1280**	**1.1280**	**1.0900e-003**	**0.0000**	**1.1553**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0210	7.9900e-003	0.6920	4.0000e-005		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	1.1280	1.1280	1.0900e-003	0.0000	1.1553
Total	**0.4568**	**7.9900e-003**	**0.6920**	**4.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.8100e-003**	**3.8100e-003**	**0.0000**	**1.1280**	**1.1280**	**1.0900e-003**	**0.0000**	**1.1553**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.5769	0.1990	4.9900e-003	48.0406
Unmitigated	41.5769	0.1990	4.9900e-003	48.0406

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Mobile Home Park	6.05932 / 3.82001	41.5769	0.1990	4.9900e-003	48.0406
Total		**41.5769**	**0.1990**	**4.9900e-003**	**48.0406**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Mobile Home Park	6.05932 / 3.82001	41.5769	0.1990	4.9900e-003	48.0406
Total		**41.5769**	**0.1990**	**4.9900e-003**	**48.0406**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.6840	0.5132	0.0000	21.5141
Unmitigated	8.6840	0.5132	0.0000	21.5141

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	42.78	8.6840	0.5132	0.0000	21.5141
Total		**8.6840**	**0.5132**	**0.0000**	**21.5141**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	42.78	8.6840	0.5132	0.0000	21.5141
Total		**8.6840**	**0.5132**	**0.0000**	**21.5141**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 1 Existing

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	93.00	Dwelling Unit	8.20	111,600.00	266

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 1 existing use operational emissions.

Land Use - Existing use = RV park.

Construction Phase - No construction.

Off-road Equipment -

Off-road Equipment - No construction.

Trips and VMT - No construction.

Demolition -

Grading -

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Existing use trips and distance per traffic study.

Woodstoves - No hearths.

Area Coating - No residential painting.

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	75330	0
tblAreaCoating	Area_Residential_Interior	225990	0
tblFireplaces	NumberGas	51.15	0.00
tblFireplaces	NumberWood	32.55	0.00
tblLandUse	LotAcreage	11.72	8.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	5.00	5.17
tblVehicleTrips	SU_TR	4.36	5.17
tblVehicleTrips	WD_TR	4.99	5.17
tblWoodstoves	NumberCatalytic	4.65	0.00
tblWoodstoves	NumberNoncatalytic	4.65	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6212	0.0888	7.6893	4.1000e-004		0.0424	0.0424		0.0424	0.0424	0.0000	13.8154	13.8154	0.0134	0.0000	14.1501
Energy	0.0635	0.5423	0.2308	3.4600e-003		0.0439	0.0439		0.0439	0.0439		692.3478	692.3478	0.0133	0.0127	696.4620
Mobile	0.6935	2.7485	7.0073	0.0209	1.7925	0.0186	1.8111	0.4791	0.0174	0.4965		2,124.2293	2,124.2293	0.1256		2,127.3686
Total	**3.3782**	**3.3796**	**14.9274**	**0.0248**	**1.7925**	**0.1049**	**1.8973**	**0.4791**	**0.1037**	**0.5827**	**0.0000**	**2,830.3925**	**2,830.3925**	**0.1522**	**0.0127**	**2,837.9807**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6212	0.0888	7.6893	4.1000e-004		0.0424	0.0424		0.0424	0.0424	0.0000	13.8154	13.8154	0.0134	0.0000	14.1501
Energy	0.0635	0.5423	0.2308	3.4600e-003		0.0439	0.0439		0.0439	0.0439		692.3478	692.3478	0.0133	0.0127	696.4620
Mobile	0.6935	2.7485	7.0073	0.0209	1.7925	0.0186	1.8111	0.4791	0.0174	0.4965		2,124.2293	2,124.2293	0.1256		2,127.3686
Total	**3.3782**	**3.3796**	**14.9274**	**0.0248**	**1.7925**	**0.1049**	**1.8973**	**0.4791**	**0.1037**	**0.5827**	**0.0000**	**2,830.3925**	**2,830.3925**	**0.1522**	**0.0127**	**2,837.9807**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6935	2.7485	7.0073	0.0209	1.7925	0.0186	1.8111	0.4791	0.0174	0.4965		2,124.2293	2,124.2293	0.1256		2,127.3686
Unmitigated	0.6935	2.7485	7.0073	0.0209	1.7925	0.0186	1.8111	0.4791	0.0174	0.4965		2,124.2293	2,124.2293	0.1256		2,127.3686

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	480.81	480.81	480.81	845,322	845,322
Total	480.81	480.81	480.81	845,322	845,322

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	4.83	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0635	0.5423	0.2308	3.4600e-003		0.0439	0.0439		0.0439	0.0439		692.3478	692.3478	0.0133	0.0127	696.4620
NaturalGas Unmitigated	0.0635	0.5423	0.2308	3.4600e-003		0.0439	0.0439		0.0439	0.0439		692.3478	692.3478	0.0133	0.0127	696.4620

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Mobile Home Park	5884.96	0.0635	0.5423	0.2308	3.4600e-003		0.0439	0.0439		0.0439	0.0439		692.3478	692.3478	0.0133	0.0127	696.4620
Total		**0.0635**	**0.5423**	**0.2308**	**3.4600e-003**		**0.0439**	**0.0439**		**0.0439**	**0.0439**		**692.3478**	**692.3478**	**0.0133**	**0.0127**	**696.4620**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Mobile Home Park	5.88496	0.0635	0.5423	0.2308	3.4600e-003		0.0439	0.0439		0.0439	0.0439		692.3478	692.3478	0.0133	0.0127	696.4620
Total		**0.0635**	**0.5423**	**0.2308**	**3.4600e-003**		**0.0439**	**0.0439**		**0.0439**	**0.0439**		**692.3478**	**692.3478**	**0.0133**	**0.0127**	**696.4620**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6212	0.0888	7.6893	4.1000e-004		0.0424	0.0424		0.0424	0.0424	0.0000	13.8154	13.8154	0.0134	0.0000	14.1501
Unmitigated	2.6212	0.0888	7.6893	4.1000e-004		0.0424	0.0424		0.0424	0.0424	0.0000	13.8154	13.8154	0.0134	0.0000	14.1501

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2330	0.0888	7.6893	4.1000e-004		0.0424	0.0424		0.0424	0.0424		13.8154	13.8154	0.0134		14.1501
Total	**2.6212**	**0.0888**	**7.6893**	**4.1000e-004**		**0.0424**	**0.0424**		**0.0424**	**0.0424**	**0.0000**	**13.8154**	**13.8154**	**0.0134**	**0.0000**	**14.1501**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2330	0.0888	7.6893	4.1000e-004		0.0424	0.0424		0.0424	0.0424		13.8154	13.8154	0.0134		14.1501
Total	**2.6212**	**0.0888**	**7.6893**	**4.1000e-004**		**0.0424**	**0.0424**		**0.0424**	**0.0424**	**0.0000**	**13.8154**	**13.8154**	**0.0134**	**0.0000**	**14.1501**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 2 Existing

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	36.00	Dwelling Unit	3.80	43,200.00	103

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 2 existing use operational emissions.

Land Use - Existing use = RV park.

Construction Phase - No construction.

Off-road Equipment -

Off-road Equipment - No construction.

Trips and VMT - No construction.

Demolition -

Grading -

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Existing use trips and distance per traffic study.

Woodstoves - No hearths.

Area Coating - No residential painting.

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	29160	0
tblAreaCoating	Area_Residential_Interior	87480	0
tblFireplaces	NumberGas	19.80	0.00
tblFireplaces	NumberWood	12.60	0.00
tblLandUse	LotAcreage	4.54	3.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	5.00	5.20
tblVehicleTrips	SU_TR	4.36	5.20
tblVehicleTrips	WD_TR	4.99	5.20
tblWoodstoves	NumberCatalytic	1.80	0.00
tblWoodstoves	NumberNoncatalytic	1.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1768	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471
Energy	4.4800e-003	0.0383	0.0163	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	108.1905	108.1905	3.4200e-003	1.3400e-003	108.6768
Mobile	0.0412	0.1563	0.4226	1.4000e-003	0.1240	1.1200e-003	0.1251	0.0332	1.0400e-003	0.0343	0.0000	129.2064	129.2064	6.9500e-003	0.0000	129.3802
Waste						0.0000	0.0000		0.0000	0.0000	3.3615	0.0000	3.3615	0.1987	0.0000	8.3281
Water						0.0000	0.0000		0.0000	0.0000	0.7441	15.3502	16.0943	0.0771	1.9300e-003	18.5964
Total	**0.2225**	**0.1977**	**0.7063**	**1.6500e-003**	**0.1240**	**5.7000e-003**	**0.1297**	**0.0332**	**5.6200e-003**	**0.0388**	**4.1057**	**253.1837**	**257.2893**	**0.2865**	**3.2700e-003**	**265.4286**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1768	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471
Energy	4.4800e-003	0.0383	0.0163	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	108.1905	108.1905	3.4200e-003	1.3400e-003	108.6768
Mobile	0.0412	0.1563	0.4226	1.4000e-003	0.1240	1.1200e-003	0.1251	0.0332	1.0400e-003	0.0343	0.0000	129.2064	129.2064	6.9500e-003	0.0000	129.3802
Waste						0.0000	0.0000		0.0000	0.0000	3.3615	0.0000	3.3615	0.1987	0.0000	8.3281
Water						0.0000	0.0000		0.0000	0.0000	0.7441	15.3502	16.0943	0.0771	1.9300e-003	18.5964
Total	**0.2225**	**0.1977**	**0.7063**	**1.6500e-003**	**0.1240**	**5.7000e-003**	**0.1297**	**0.0332**	**5.6200e-003**	**0.0388**	**4.1057**	**253.1837**	**257.2893**	**0.2865**	**3.2700e-003**	**265.4286**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0412	0.1563	0.4226	1.4000e-003	0.1240	1.1200e-003	0.1251	0.0332	1.0400e-003	0.0343	0.0000	129.2064	129.2064	6.9500e-003	0.0000	129.3802
Unmitigated	0.0412	0.1563	0.4226	1.4000e-003	0.1240	1.1200e-003	0.1251	0.0332	1.0400e-003	0.0343	0.0000	129.2064	129.2064	6.9500e-003	0.0000	129.3802

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	187.20	187.20	187.20	329,120	329,120
Total	187.20	187.20	187.20	329,120	329,120

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	4.83	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	63.8192	63.8192	2.5700e-003	5.3000e-004	64.0418
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	63.8192	63.8192	2.5700e-003	5.3000e-004	64.0418
NaturalGas Mitigated	4.4800e-003	0.0383	0.0163	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.3713	44.3713	8.5000e-004	8.1000e-004	44.6350
NaturalGas Unmitigated	4.4800e-003	0.0383	0.0163	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.3713	44.3713	8.5000e-004	8.1000e-004	44.6350

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Mobile Home Park	831487	4.4800e-003	0.0383	0.0163	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.3713	44.3713	8.5000e-004	8.1000e-004	44.6350
Total		**4.4800e-003**	**0.0383**	**0.0163**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**	**0.0000**	**44.3713**	**44.3713**	**8.5000e-004**	**8.1000e-004**	**44.6350**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Mobile Home Park	831487	4.4800e-003	0.0383	0.0163	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.3713	44.3713	8.5000e-004	8.1000e-004	44.6350
Total		**4.4800e-003**	**0.0383**	**0.0163**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**	**0.0000**	**44.3713**	**44.3713**	**8.5000e-004**	**8.1000e-004**	**44.6350**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	195280	63.8192	2.5700e-003	5.3000e-004	64.0418
Total		**63.8192**	**2.5700e-003**	**5.3000e-004**	**64.0418**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Mobile Home Park	195280	63.8192	2.5700e-003	5.3000e-004	64.0418
Total		**63.8192**	**2.5700e-003**	**5.3000e-004**	**64.0418**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1768	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471
Unmitigated	0.1768	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0500e-003	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471
Total	**0.1768**	**3.0800e-003**	**0.2674**	**1.0000e-005**		**1.4800e-003**	**1.4800e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**0.4366**	**0.4366**	**4.2000e-004**	**0.0000**	**0.4471**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0500e-003	3.0800e-003	0.2674	1.0000e-005		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	0.4366	0.4366	4.2000e-004	0.0000	0.4471
Total	**0.1768**	**3.0800e-003**	**0.2674**	**1.0000e-005**		**1.4800e-003**	**1.4800e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**0.4366**	**0.4366**	**4.2000e-004**	**0.0000**	**0.4471**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.0943	0.0771	1.9300e-003	18.5964
Unmitigated	16.0943	0.0771	1.9300e-003	18.5964

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Mobile Home Park	2.34554 / 1.47871	16.0943	0.0771	1.9300e-003	18.5964
Total		**16.0943**	**0.0771**	**1.9300e-003**	**18.5964**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Mobile Home Park	2.34554 / 1.47871	16.0943	0.0771	1.9300e-003	18.5964
Total		**16.0943**	**0.0771**	**1.9300e-003**	**18.5964**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.3615	0.1987	0.0000	8.3281
Unmitigated	3.3615	0.1987	0.0000	8.3281

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	16.56	3.3615	0.1987	0.0000	8.3281
Total		**3.3615**	**0.1987**	**0.0000**	**8.3281**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Mobile Home Park	16.56	3.3615	0.1987	0.0000	8.3281
Total		**3.3615**	**0.1987**	**0.0000**	**8.3281**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Alvarado SP Phase 2 Existing

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Mobile Home Park	36.00	Dwelling Unit	3.80	43,200.00	103

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Phase 2 existing use operational emissions.

Land Use - Existing use = RV park.

Construction Phase - No construction.

Off-road Equipment -

Off-road Equipment - No construction.

Trips and VMT - No construction.

Demolition -

Grading -

Architectural Coating - Coating VOC limits per SDAPCD Rule 67.

Vehicle Trips - Existing use trips and distance per traffic study.

Woodstoves - No hearths.

Area Coating - No residential painting.

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	29160	0
tblAreaCoating	Area_Residential_Interior	87480	0
tblFireplaces	NumberGas	19.80	0.00
tblFireplaces	NumberWood	12.60	0.00
tblLandUse	LotAcreage	4.54	3.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.00
tblVehicleTrips	HO_TTP	39.60	0.00
tblVehicleTrips	HS_TL	7.30	0.00
tblVehicleTrips	HS_TTP	18.80	0.00
tblVehicleTrips	HW_TL	10.80	4.83
tblVehicleTrips	HW_TTP	41.60	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	5.00	5.20
tblVehicleTrips	SU_TR	4.36	5.20
tblVehicleTrips	WD_TR	4.99	5.20
tblWoodstoves	NumberCatalytic	1.80	0.00
tblWoodstoves	NumberNoncatalytic	1.80	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0140	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	5.3479	5.3479	5.1400e-003	0.0000	5.4765
Energy	0.0246	0.2099	0.0893	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.0056	268.0056	5.1400e-003	4.9100e-003	269.5982
Mobile	0.2330	0.8560	2.3626	7.6000e-003	0.6978	6.1700e-003	0.7040	0.1865	5.7400e-003	0.1922		774.1181	774.1181	0.0428		775.1869
Total	**1.2716**	**1.1001**	**5.4227**	**9.1000e-003**	**0.6978**	**0.0396**	**0.7374**	**0.1865**	**0.0392**	**0.2256**	**0.0000**	**1,047.4716**	**1,047.4716**	**0.0530**	**4.9100e-003**	**1,050.2615**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0140	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	5.3479	5.3479	5.1400e-003	0.0000	5.4765
Energy	0.0246	0.2099	0.0893	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.0056	268.0056	5.1400e-003	4.9100e-003	269.5982
Mobile	0.2330	0.8560	2.3626	7.6000e-003	0.6978	6.1700e-003	0.7040	0.1865	5.7400e-003	0.1922		774.1181	774.1181	0.0428		775.1869
Total	**1.2716**	**1.1001**	**5.4227**	**9.1000e-003**	**0.6978**	**0.0396**	**0.7374**	**0.1865**	**0.0392**	**0.2256**	**0.0000**	**1,047.4716**	**1,047.4716**	**0.0530**	**4.9100e-003**	**1,050.2615**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2330	0.8560	2.3626	7.6000e-003	0.6978	6.1700e-003	0.7040	0.1865	5.7400e-003	0.1922		774.1181	774.1181	0.0428		775.1869
Unmitigated	0.2330	0.8560	2.3626	7.6000e-003	0.6978	6.1700e-003	0.7040	0.1865	5.7400e-003	0.1922		774.1181	774.1181	0.0428		775.1869

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Mobile Home Park	187.20	187.20	187.20	329,120	329,120
Total	187.20	187.20	187.20	329,120	329,120

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	4.83	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Mobile Home Park	0.602700	0.040134	0.179939	0.104242	0.014985	0.005435	0.016642	0.024350	0.001934	0.001888	0.005938	0.000757	0.001056

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0246	0.2099	0.0893	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.0056	268.0056	5.1400e-003	4.9100e-003	269.5982
NaturalGas Unmitigated	0.0246	0.2099	0.0893	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.0056	268.0056	5.1400e-003	4.9100e-003	269.5982

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Mobile Home Park	2278.05	0.0246	0.2099	0.0893	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.0056	268.0056	5.1400e-003	4.9100e-003	269.5982
Total		**0.0246**	**0.2099**	**0.0893**	**1.3400e-003**		**0.0170**	**0.0170**		**0.0170**	**0.0170**		**268.0056**	**268.0056**	**5.1400e-003**	**4.9100e-003**	**269.5982**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Mobile Home Park	2.27805	0.0246	0.2099	0.0893	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.0056	268.0056	5.1400e-003	4.9100e-003	269.5982
Total		**0.0246**	**0.2099**	**0.0893**	**1.3400e-003**		**0.0170**	**0.0170**		**0.0170**	**0.0170**		**268.0056**	**268.0056**	**5.1400e-003**	**4.9100e-003**	**269.5982**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0140	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	5.3479	5.3479	5.1400e-003	0.0000	5.4765
Unmitigated	1.0140	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	5.3479	5.3479	5.1400e-003	0.0000	5.4765

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0895	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164		5.3479	5.3479	5.1400e-003		5.4765
Total	**1.0140**	**0.0342**	**2.9707**	**1.6000e-004**		**0.0164**	**0.0164**		**0.0164**	**0.0164**	**0.0000**	**5.3479**	**5.3479**	**5.1400e-003**	**0.0000**	**5.4765**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0895	0.0342	2.9707	1.6000e-004		0.0164	0.0164		0.0164	0.0164		5.3479	5.3479	5.1400e-003		5.4765
Total	**1.0140**	**0.0342**	**2.9707**	**1.6000e-004**		**0.0164**	**0.0164**		**0.0164**	**0.0164**	**0.0000**	**5.3479**	**5.3479**	**5.1400e-003**	**0.0000**	**5.4765**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation