

LETTER OF TRANSMITTAL

TO: CVP PALM SPRINGS, LLC, DATE: September 1, 2016
 12671 High Bluff Drive, Suite 150 JOB NO.: 2398-2016-02
 San Diego, CA 92130 SUBJECT: Vista Del Agua Development
 Air Quality and Greenhouse Gas Impact
 Study, City of Coachella

ATTN: Mr. James Kozak

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REMARKS:

Attached please find the Vista Del Agua Development Air Quality and Greenhouse Gas Impact Study, City of Coachella. Please call Mike Dickerson at (949) 474-0809, extension 208, if you have any questions.

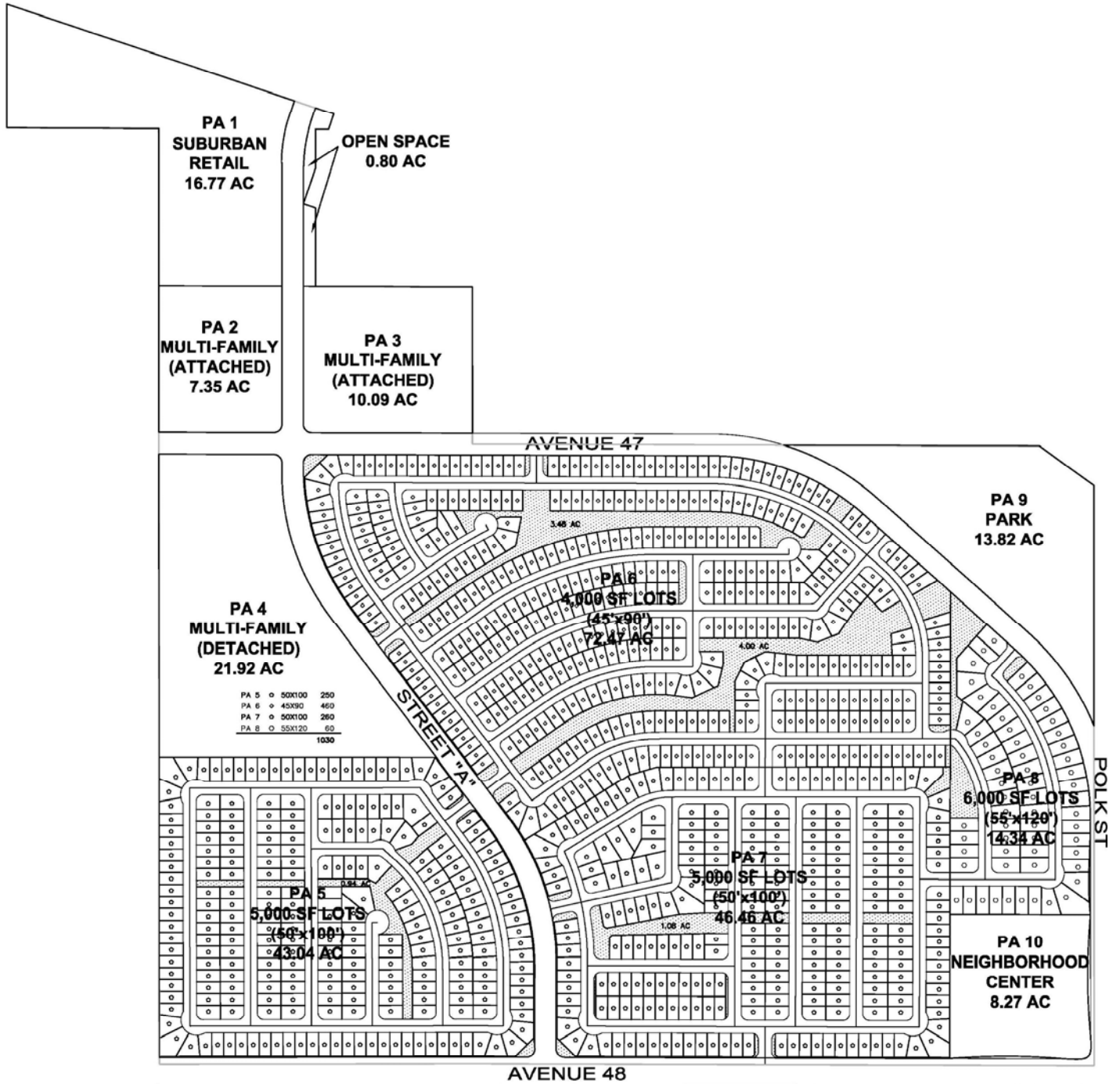
BY:

Mike Dickerson

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COPIES TO:

VISTA DEL AGUA DEVELOPMENT AIR QUALITY AND GHG IMPACT STUDY City of Coachella, California





September 1, 2016

Mr. James Kozak
CVP PALM SPRINGS, LLC,
12671 High Bluff Drive, Suite 150
San Diego, CA 92130

Subject: Vista Del Agua Development Specific Plan Air Quality and Greenhouse Gas Impact Study, City of Coachella

Dear Mr. Kozak:

RK ENGINEERING GROUP, INC. (RK) has completed an air quality (AQ) and greenhouse gas (GHG) impact study for the Vista Del Agua Development Specific Plan project. The proposed project is located south of the I-10 Freeway and east of Tyler Street, as indicated on Exhibit A. The 275 acre site would consist of a mix of uses including, single family residential, multi-family residential, commercial/retail uses, and open space. The proposed development plan is illustrated in Exhibit B.

This report provides a summary of the findings, analysis procedures, and evaluation for the proposed Project with respect to air quality emissions and greenhouse gases from the Project site pursuant to the City of Coachella requirements. The purpose of this analysis is to review the Project design from an Air Quality / GHG standpoint, review criteria pollutant emissions, and determine the overall impact.

Based upon the analysis of the Air/GHG emissions, the project is anticipated to have less than significant impact during construction but will have a significant and unavoidable impact during operation for VOC, NOx, and CO.

RK Engineering Group, Inc. is pleased to provide this analysis for the proposed Vista Del Agua Development Specific Plan project. RK appreciates this opportunity to work with the STRATEGIC LAND PARTNERSHIP and looks forward to working with you on future projects. If you have any questions regarding this analysis, or would like further review, please do not hesitate to call us at (949) 474-0809.

Sincerely,
RK ENGINEERING GROUP


Robert Kahn, P.E.
Principal





Mike Dickerson
Noise/Air Specialist

**VISTA DEL AGUA DEVELOPMENT
SPECIFIC PLAN
AIR QUALITY AND GREENHOUSE GAS,
IMPACT STUDY
City of Coachella, California**

Prepared for:

CVP PALM SPRINGS, LLC,
12671 High Bluff Drive, Suite 150
San Diego, CA 92130

Prepared by:

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**Robert Kahn, P.E.
Mike Dickerson**



September 1, 2016

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1.0 Executive Summary

1.1 Purpose and Methods of Analysis

This air quality (AQ) and greenhouse gas (GHG) analyses were prepared to evaluate whether the estimated criteria pollutants and GHG emissions generated from the Project would cause a significant impact to air resources in the project area. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.). The assessment is consistent with the methodology and emission factors endorsed by South Coast Air Quality Management District (SCAQMD), California Air Resource Board (CARB), and the United States Environmental Protection Agency (US EPA).

1.2 Project Summary

1.2.1 Site Location

The project site is located south of the I-10 Freeway and east of Tyler Street, in the City of Coachella, California. The project site is bounded by the Interstate 10 (I-10) Freeway to the north, Tyler Street to the west, Avenue 48 to the south, and Polk Street to the east as illustrated in Exhibit A. The project vicinity is characterized by undeveloped properties. The project site has been historically used for agricultural purposes and is currently used for dry, non-irrigated farming. The project site is flat, located approximately 5 feet above sea level and is vacant.

1.2.2 Project Description

The proposed project consists of approximately 275 acres of mixed use development. As shown in the preliminary land use plan (Exhibit B), the project has been divided into ten (10) Planning Areas; allowing for approximately 1,030 single family homes, 347 apartment units, 263 townhomes/condominiums, 25.84 acres of commercial/retail space, and 13.82 acres for a park. The project will likely be built out in phases over the next several years, and the final project completion date is expected to be 2022. To show the final worst case impacts upon completion, this study has analyzed the project in one (1) complete phase.

The proposed project site plan used for this analysis, provided by UNITED ENGINEERING GROUP, is illustrated in Exhibit B. Table 1 summarizes the land use description of the site.

1.2.3 Sensitive Receptors

Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution than others due to their exposure. Sensitive population groups include children, the elderly, the acutely and chronically ill and those with cardio-respiratory diseases. For CEQA purposes, the SCAQMD, in its Localized Significance Threshold Methodology (SCAQMD 2008a, page 3-2), considers a sensitive receptor to be a location where a sensitive individual could remain for 24-hours or longer, such as

residencies, hospitals, and schools (etc).

The closest existing sensitive receptors are residential units located approximately 25 meters to the west the project site.

1.3 Summary of Analysis Results

The following is a summary of the analysis results, according to impact.

Impact AIR-1: The project would not conflict with or obstruct implementation of the applicable air quality plan. **The project will have a significant and unavoidable impact. VOC, NOx, and CO will exceed regional operation significance thresholds.**

Impact AIR-2: The project would not violate an air quality standard or contribute substantially to an existing or projected air quality violation during construction and operation of the project. **The project will have a significant and unavoidable impact. VOC, NOx, and CO will exceed regional operation significance thresholds.**

Impact AIR-3: The project would not result in a cumulatively considerable net increase of a criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors). **The project will have a significant and unavoidable impact. VOC, NOx, and CO will exceed regional operation significance thresholds.**

Impact AIR-4: The project would not expose sensitive receptors to substantial pollutant concentrations. **VOC, NOx, and CO will exceed regional operation significance thresholds.**

Impact AIR-5: The project would not create objectionable odors affecting a substantial number of people. **Less than significant.**

The following is a summary of the analysis results, according to impact.

Impact GHG-1: The project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment. **Less than significant with mitigation.**

Impact GHG-2: The project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the

emissions of greenhouse gases. **Less than significant with mitigation.**

1.4 Mitigations Measures (MM) Applied to Project

Air Quality Impact Construction Measures

- MM-1** The project shall require that the site preparation and grading contractors limit the daily disturbed area to 5 acres or less.
- MM-2** The project shall require that during site preparation, and grading operations all contractors shall comply with all applicable measures listed in SCAQMD Rule 403 and 403.1 to control fugitive dust including the application of water to all exposed surfaces a minimum of three times per day. The project will also comply with the requirements of the Coachella Valley Fugitive Dust Control Handbook and prepared and prepare the required fugitive dust control plan.
- MM-3** The project shall require that construction contractor use construction equipment that have Tier 4 final engines, level 3 diesel particulate filters (DPF), with oxidation catalyst that impart 20% reduction and apply coatings with a VOC content no greater than 10 g/L.

Air Quality Impact and Greenhouse Gas Operational Measures

- MM-4** Project shall improve the pedestrian network by incorporating sidewalks along the property and connecting off-site.
- MM-5** Project shall follow 2013 Title 24 Residential Standards, which are at least 25 percent more efficient than 2008 Title 24 Part 6 energy efficiency standards and meet Green Building Code Standards.
- MM-6** Project shall require all faucets, toilets, and showers installed in the proposed structure utilize low-flow fixtures such that indoor water demand is reduced by 20%.
- MM-7** Project shall require landscaping and irrigation that reduces outside water demand by at least 20%.
- MM-8** Project shall require that ENERGY STAR appliances be installed in new homes.
- MM-9** Project shall require that a recycling program is implemented that reduces waste to landfills by a minimum of 75 percent.

- MM-10** Project shall require that all lighting in the proposed structures uses an average of 5 percent less energy than conventional lighting.
- MM-11** Project shall require the use of paints with VOC content lower than SCAQMD Rule 1113 requires for application to surfaces of homes within the project site.
- MM-12** Project shall require that at least 2,406 new trees are planted on-site (approximately 2 trees per residential unit and 25 trees per acre of parks).

2.0 Regulatory Framework and Background

2.1 Air Quality Regulatory Setting

Air pollutants are regulated at the national, state, and air basin level; each agency has a different level of regulatory responsibility. The United States Environmental Protection Agency (EPA) regulates at the national level. The California Air Resources Board (ARB) regulates at the state level. The South Coast Air Quality Management District (SCAQMD) regulates at the air basin level.

2.1.1 National and State

Both the federal government and the State of California have established health-based ambient air quality standards (AAQS) for seven air pollutants. As shown in Table 2, these pollutants include ozone (O₃), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), coarse particulate matter with a diameter of 10 microns or less (PM₁₀), fine particulate matter with a diameter of 2.5 microns in diameter (PM_{2.5}), and lead. In addition the State has set standards for sulfates, hydrogen sulfides, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

In addition to setting out primary and secondary AAQS, the State has established a set of episode criteria for O₃, CO, NO₂, SO₂, and PM₁₀. These criteria refer to episode levels representing periods of short-term exposure to air pollutants that actually threaten public health. Health effects are progressively more severe as pollutant levels increases from Stage One to Stage Three. An alert level is that concentration of pollutants at which initial stage control actions are to begin. An alert will be declared when any one of the pollutant concentrations ca be expected to remain at these levels for 12 or more hours or to increase or, in the case of oxidants, the situation is likely to recur within the next 24 hours unless control actions are taken.

Pollutant alert levels:

- O₃: 392 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (0.20 parts per million [ppm]), 1-hour average
- CO: 17 milligrams per cubic meter (mg/m^3) (15 ppm), 8-hour average
- NO₂: 1,130 $\mu\text{g}/\text{m}^3$ (0.6 ppm) 1-hour average; 282 $\mu\text{g}/\text{m}^3$ (0.15 ppm) 24-hour average

A State Implementation Plan is a document prepared by each state describing existing air quality conditions and measures that will be followed to attain and maintain federal standards. The State Implementation Plan for the State of California is administered by the ARB, which has overall responsibility for statewide air quality maintenance and air pollution prevention. California's State Implementation Plan incorporates individual federal

attainment plans for regional air districts—air district prepares their federal attainment plan, which sent to ARB to be approved and incorporated into the California State Implementation Plan. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

Several pollutants listed in Table 2 are not addressed in this analysis. Analysis of lead is not included in this report because the project is not anticipated to emit lead. Visibility-reducing particles are not explicitly addressed in this analysis because particulate matter is addressed. The project is not expected to generate or be exposed to vinyl chloride because proposed project uses do not utilize the chemical processes that create this pollutant and there are no such uses in the project vicinity. The proposed project is not expected to cause exposure to hydrogen sulfide because it would not generate hydrogen sulfide in any substantial quantity.

2.1.2 South Coast Air Quality Management District

The agency for air pollution control for the South Coast Air Basin (basin) and the Salton Sea Air Basin (SSAB) is the South Coast Air Quality Management District (SCAQMD). SCAQMD is responsible for controlling emissions primarily from stationary sources. SCAQMD maintains air quality monitoring stations throughout the basin. SCAQMD, in coordination with the Southern California Association of Governments, is also responsible for developing, updating, and implementing the Air Quality Management Plan (AQMP) for the basin. An AQMP is a plan prepared and implemented by an air pollution district for a county or region designated as nonattainment of the federal and/or California ambient air quality standards. The term nonattainment area is used to refer to an air basin where one or more ambient air quality standards are exceeded.

Every three years the SCAQMD prepares a new AQMP, updating the previous plan and having a 20 year horizon.

On December 7, 2012, SCAQMD adopted the 2012 AQMP. The 2012 AQMP incorporates the latest scientific and technological information and planning assumptions, including the 2012 Regional Transportation Plan/Sustainable Communities Strategy and updated emission inventory methodologies for various source categories. In addition, the 2012 AQMP includes the new and changing federal requirements, the implementation of new technology measures, and the continued development of economically sound, flexible compliance approaches.

South Coast Air Quality Management District Rules

The AQMP for the basin establishes a program of rules and regulations administered by SCAQMD to obtain attainment of the state and federal standards. The rules and regulations that apply to this project include, but are not limited to, the following:

SCAQMD Rule 402 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403 governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

SCAQMD Rule 403.1 are supplemental to Rule 403 requirements and shall apply only to fugitive dust sources in the Coachella Valley.

(d) General Requirements of 403.1

(1) Any person who is responsible for any active operation, open storage pile, or disturbed surface area, and who seeks an exemption pursuant to Rule 403, paragraph (g)(2) shall be required to determine when wind speed conditions exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).

(2) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new man-made deposits of bulk material within 24 hours of making such bulk material deposits. Stabilization procedures shall include one or more of the following: (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least 6 months; or

(C) Installation of wind breaks of such design so as to reduce maximum wind gusts to less than 25 miles per hour in the area of the bulk material deposits. (3) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new deposits of bulk material originating from off-site undisturbed natural desert areas within 72 hours.

Stabilization procedures shall include one or more of the following: (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least six months.

(4) A person who conducts or authorizes the conducting of an active operation shall implement at least one of the control actions specified in Rule 403, Table 2 for the source category "Inactive Disturbed Surface Areas" to minimize wind driven fugitive dust from

disturbed surface areas at such time when active operations have ceased for a period of at least 20 days.

(5) Any person involved in agricultural tilling or soil mulching activities shall cease such activities when wind speeds exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).

(e) Fugitive Dust Control Plan and Other Requirements for Construction Projects/Earth-Moving Activities

(1) Any person who conducts or authorizes the conducting of an active operation with a disturbed surface area of more than 5,000 square feet shall not initiate any earth-moving activities unless a fugitive dust control plan is prepared and approved by the Executive Officer in accordance with the requirements of subdivision (f) and the Rule 403.1 Implementation Handbook. These provisions shall not apply to active operations exempted by paragraph (i)(4).

(2) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall maintain a complete copy of the approved fugitive dust control plan on site in a conspicuous place at all times and the fugitive dust control plan must be provided upon request.

(3) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall install and maintain signage with project contact information that meets the minimum standards of the Rule 403.1 Implementation Handbook prior to initiating any type of earth-moving activities.

(4) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) for a project with a disturbed surface area of 50 or more acres shall have an Dust Control Supervisor that: (A) is employed by or contracted with the property owner or developer; and (B) is on-site or is available to be on-site within 30 minutes of initial contact; and (C) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 and 403.1 requirements; and (D) has completed the AQMD Coachella Valley Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class.

(5) Failure to comply with any of the provisions of an approved fugitive dust control plan shall be a violation of this rule.

SCAQMD Rule 1113 governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of project must comply with Rule 1113.

2.1.3 City of Coachella

The agency for air pollution control for the South Coast Air Basin (basin) and Salton Sea Air Basin is the South Coast Air Quality Management District. Local jurisdictions, such as the County of Riverside and/or the City, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the 2007 AQMP. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

In accordance with the CEQA requirements, the City does not, however, have the expertise to develop plans, programs, procedures, and methodologies to ensure that air quality within the City and region will meet federal and state standards. Instead, the City relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

The City adopted the Coachella Climate Action Plan in June 2014. The plan outlines the City's policies and goals towards reducing emissions.

2.2 Greenhouse Gas Regulatory Setting

2.2.1 International

Many countries around the globe have made an effort to reduce GHGs since climate change is a global issue.

Intergovernmental Panel on Climate Change. In 1988, the United Nations and the World Meteorological Organization established the Intergovernmental Panel on Climate Change to assess the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nations. The United States participates in the United Nations Framework Convention on Climate Change (UNFCCC) (signed on March 21, 1994). Under the Convention, governments gather and share information on greenhouse gas emissions, national policies, and best practices; launch national strategies for addressing greenhouse gas emissions and adapting to expected impacts, including the provision of financial and

technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

Kyoto Protocol. The Kyoto Protocol is a treaty made under the UNFCCC and was the first international agreement to regulate GHG emissions. It has been estimated that if the commitments outlined in the Kyoto Protocol are met, global GHG emissions could be reduced by an estimated 5% from 1990 levels during the first commitment period of 2008 – 2012 (UNFCCC 1997). On December 8, 2012, the Doha Amendment to the Kyoto Protocol was adopted. The amendment includes: New commitments for Annex I Parties to the Kyoto Protocol who agreed to take on commitments in a second commitment period from 2013 – 2020; a revised list of greenhouse gases (GHG) to be reported on by Parties in the second commitment period; and Amendments to several articles of the Kyoto Protocol which specifically referenced issues pertaining to the first commitment period and which needed to be updated for the second commitment period.

2.2.2 National

Greenhouse Gas Endangerment. On December 2, 2009, the EPA announced that GHGs threaten the public health and welfare of the American people. The EPA also states that GHG emissions from on-road vehicles contribute to that threat. The decision was based on *Massachusetts v. EPA* (Supreme Court Case 05-1120) which argued that GHGs are air pollutants covered by the Clean Air Act and that the EPA has authority to regulate those emissions.

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the EPA and the Department of Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce greenhouse gas emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program would apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of carbon dioxide per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this carbon dioxide level solely through fuel economy improvements. Together, these standards would cut carbon dioxide emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012-2016). The second phase of the national program involved proposing new fuel economy and greenhouse gas standards for model years 2017 – 2025 on September 1, 2011.

On October 25, 2010, the EPA and the U.S. Department of Transportation proposed the first national standards to reduce greenhouse gas emissions and improve fuel efficiency of heavy-duty trucks and buses. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20 percent reduction in carbon dioxide emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10 percent reduction for gasoline vehicles and 15 percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the agencies are proposing engine and vehicle standards starting in the 2014 model year which would achieve up to a 10 percent reduction in fuel consumption and carbon dioxide emissions by 2018 model year.

Mandatory Reporting of Greenhouse Gases. On January 1, 2010, the EPA started requiring large emitters of heat-trapping emissions to begin collecting GHG data under a new reporting system. Under the rule, suppliers of fossil fuels or industrial greenhouse gases, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of greenhouse gas emissions are required to submit annual reports to the EPA.

New Source Review. On May 13, 2010 the EPA issued a final rule that establishes common sense approach to addressing greenhouse gas emissions from stationary sources under the Clean Air Act (CAA) permitting programs. In the first phase of the Rule (Jan 2011 – Jun 2011), only sources currently subject to the New Source Review Prevention of Significant Deterioration (PSD) permitting program (i.e., those that newly constructed or modified in a way that significantly increase emissions of a pollutant other than GHGs) are subject to permitting requirements for their GHG emissions under PSD. For these projects, only GHG increases of 75,000 tons per year CO₂e or more need to determine the Best Available Control Technology (BACT) for their GHG emissions. Similarly for the operating permit program, only sources currently subject to the program are subject to Title V requirements for GHG. In the second phase of the rule (July 2011 – June 2013) new construction projects that exceed a threshold of 100,000 tons per year and modifications of existing facilities that increase emissions by at least 75,000 tons per year will be subject to permitting requirements. Additionally, operating facilities that emit at least 100,000 tons per year will be subject to Title V permitting requirements (USEPA 2010a). EPA estimates that facilities responsible for nearly 70 percent of the national greenhouse gas emissions from stationary sources will be subject to permitting requirements under this rule. This rule took effect January 2, 2011.

2.2.3 California

Title 24. California Code of Regulations Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of

new energy efficient technologies and methods. All buildings for which an application for a building permit is submitted on or after January 1, 2011 must follow the 2008 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

California Green Building Standards. On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011. The Code is a comprehensive and uniform regulatory code for all residential, commercial and school buildings.

The California Green Building Standards Code does not prevent a local jurisdiction from adopting a more stringent code as state law provides methods for local enhancements. The Code recognizes that many jurisdictions have developed existing construction and demolition ordinances, and defers to them as the ruling guidance provided they provide a minimum 50-percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. State building code provides the minimum standard which buildings need to meet in order to be certified for occupancy. Enforcement is generally through the local building official.

The California Green Building Standards Code (code section in parentheses) requires:

- **Short-term bicycle parking.** If a commercial project is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack (5.106.4.1).
- **Long-term bicycle parking.** For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking capacity, with a minimum of one space (5.106.4.2).
- **Designated parking.** Provide designated parking in commercial projects for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles (5.106.5.2).
- **Recycling by Occupants.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling.
- **Construction waste.** A minimum 50-percent diversion of construction and demolition waste from landfills, increasing voluntarily to 65 and-75 percent for new homes and 80-percent for commercial projects. All (100 percent) of trees, stumps, rocks and associated vegetation and soils resulting from land clearing shall be reused or recycled.
- **Wastewater reduction.** Each building shall reduce the generation of wastewater by one of the following methods:
 - The installation of water-conserving fixtures or

- Utilizing nonpotable water systems (5.303.4).
- Water use savings. 20-percent mandatory reduction in indoor water use with voluntary goal standards for 30, 35 and 40-percent reductions.
- Water meters. Separate water meters for buildings in excess of 50,000 square feet or buildings projected to consume more than 1,000 gallons per day.
- Irrigation efficiency. Moisture-sensing irrigation systems for larger landscaped areas.
- Materials pollution control. Low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring and particle board.
- Building commissioning. Mandatory inspections of energy systems (i.e. heat furnace, air conditioner, mechanical equipment) for nonresidential buildings over 10,000 square feet to ensure that all are working at their maximum capacity according to their design efficiencies.

Pavley Regulations. California AB 1493, enacted on July 22, 2002, required the ARB to develop and adopt regulations that reduce greenhouse gases emitted by passenger vehicles and light duty trucks. The regulation was stalled by automaker lawsuits and by the EPA's denial of an implementation waiver. On January 21, 2009, the ARB requested that the EPA reconsider its previous waiver denial. On January 26, 2009, President Obama directed that the EPA assess whether the denial of the waiver was appropriate. On June 30, 2009, the EPA granted the waiver request.

The standards phase in during the 2009 through 2016 model years. When fully phased in, the near term (2009-2012) standards will result in about a 22-percent reduction compared with the 2002 fleet, and the mid-term (2013-2016) standards will result in about a 30-percent reduction. Several technologies stand out as providing significant reductions in emissions at favorable costs. These include discrete variable valve lift or camless valve actuation to optimize valve operation rather than relying on fixed valve timing and lift as has historically been done; turbocharging to boost power and allow for engine downsizing; improved multi-speed transmissions; and improved air conditioning systems that operate optimally, leak less, and/or use an alternative refrigerant.

Executive Order S-3-05. California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for greenhouse gas emissions:

- By 2010, California shall reduce greenhouse gas emissions to 2000 levels;
- By 2020, California shall reduce greenhouse gas emissions to 1990 levels.
- By 2050, California shall reduce greenhouse gas emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be an aggressive, but achievable, mid-term target. The Climate Action Team's Report to the Governor in 2006 contains recommendations and strategies to help ensure the 2020 targets in Executive Order S-3-05 are met.

Low Carbon Fuel Standard - Executive Order S-01-07. The Governor signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. In particular, the executive order established a Low Carbon Fuel Standard and directed the Secretary for Environmental Protection to coordinate the actions of the California Energy Commission, the ARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. This analysis supporting development of the protocols was included in the State Implementation Plan for alternative fuels (State Alternative Fuels Plan adopted by California Energy Commission on December 24, 2007) and was submitted to ARB for consideration as an "early action" item under AB 32. The ARB adopted the Low Carbon Fuel Standard on April 23, 2009.

SB 1368. In 2006, the State Legislature adopted Senate Bill (SB) 1368, which was subsequently signed into law by the Governor. SB 1368 directs the California Public Utilities Commission to adopt a performance standard for greenhouse gas emissions for the future power purchases of California utilities. SB 1368 seeks to limit carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. Because of the carbon content of its fuel source, a coal-fired plant cannot meet this standard because such plants emit roughly twice as much carbon as natural gas, combined cycle plants. Accordingly, the new law will effectively prevent California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the State. Thus, SB 1368 will lead to dramatically lower greenhouse gas emissions associated with California's energy demand, as SB 1368 will effectively prohibit California utilities from purchasing power from out-of-state producers that cannot satisfy the performance standard for greenhouse gas emissions required by SB 1368. The California Public Utilities Commission adopted the regulations required by SB 1368 on August 29, 2007.

SB 97 and the CEQA Guidelines Update. Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the Office of Planning and Research pursuant to subdivision (a)." Section 21097 was also added to the Public Resources Code. It provided CEQA protection until January 1, 2010 for

transportation projects funded by the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006 or projects funded by the Disaster Preparedness and Flood Prevention Bond Act of 2006, in stating that the failure to adequately analyze the effects of greenhouse gases would not violate CEQA.

On April 13, 2009, the Office of Planning and Research submitted to the Secretary for Natural Resources its recommended amendments to the CEQA Guidelines for addressing greenhouse gas emissions. On July 3, 2009, the Natural Resources Agency commenced the Administrative Procedure Act rulemaking process for certifying and adopting these amendments pursuant to Public Resources Code section 21083.05. Following a 55-day public comment period and two public hearings, the Natural Resources Agency proposed revisions to the text of the proposed Guidelines amendments. The Natural Resources Agency transmitted the adopted amendments and the entire rulemaking file to the Office of Administrative Law on December 31, 2009. On February 16, 2010, the Office of Administrative Law approved the Amendments, and filed them with the Secretary of State for inclusion in the California Code of Regulations. The Amendments became effective on March 18, 2010.

The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of greenhouse gas emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing CEQA Guidelines to reference climate change.

A new section, CEQA Guidelines Section 15064.4, was added to assist agencies in determining the significance of greenhouse gas emissions. The new section allows agencies the discretion to determine whether a quantitative or qualitative analysis is best for a particular project. However, little guidance is offered on the crucial next step in this assessment process—how to determine whether the project’s estimated greenhouse gas emissions are significant or cumulatively considerable.

Also amended were CEQA Guidelines Sections 15126.4 and 15130, which address mitigation measures and cumulative impacts respectively. Greenhouse gas mitigation measures are referenced in general terms, but no specific measures are championed. The revision to the cumulative impact discussion requirement (Section 15130) simply directs agencies to analyze greenhouse gas emissions in an EIR when a project’s incremental contribution of emissions may be cumulatively considerable, however it does not answer the question of when emissions are cumulatively considerable.

Section 15183.5 permits programmatic greenhouse gas analysis and later project-specific tiering, as well as the preparation of Greenhouse Gas Reduction Plans. Compliance with such plans can support a determination that a project’s cumulative effect is not cumulatively considerable, according to proposed Section 15183.5(b). In addition, the amendments revised Appendix F of the CEQA Guidelines, which focuses on Energy Conservation. The sample environmental checklist in Appendix G was amended to include greenhouse gas questions.

AB 32. The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires that greenhouse gases emitted in California be reduced to 1990 levels by the year 2020. “Greenhouse gases” as defined under AB 32 include carbon dioxide, methane, nitrous oxide, hydro fluorocarbons, perfluorocarbons, and sulfur hexafluoride. ARB is the state agency charged with monitoring and regulating sources of greenhouse gases. AB 32 states the following:

Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

The ARB Board approved the 1990 greenhouse gas emissions level of 427 million metric tons of carbon dioxide equivalent (MMT_{CO2e}) on December 6, 2007 (California Air Resources Board 2007). Therefore, emissions generated in California in 2020 are required to be equal to or less than 427 MMT_{CO2e}. Emissions in 2020 in a “business as usual” scenario are estimated to be 596 MMT_{CO2e}.

Under AB 32, the ARB published its Final Expanded List of Early Action Measures to Reduce Greenhouse Gas Emissions in California. Discrete early action measures are currently underway or are enforceable by January 1, 2010. The ARB has 44 early action measures that apply to the transportation, commercial, forestry, agriculture, cement, oil and gas, fire suppression, fuels, education, energy efficiency, electricity, and waste sectors. Of these early action measures, nine are considered discrete early action measures, as they are regulatory and enforceable by January 1, 2010. The ARB estimates that the 44 recommendations are expected to result in reductions of at least 42 MMT_{CO2e} by 2020, representing approximately 25 percent of the 2020 target.

The ARB’s Climate Change Scoping Plan (Scoping Plan) contains measures designed to reduce the State’s emissions to 1990 levels by the year 2020 (California Air Resources Board 2008). The Scoping Plan identifies recommended measures for multiple greenhouse gas emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector has a different emission reduction target. Most of the measures target the transportation and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2020 greenhouse gas target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a statewide renewables energy mix of 33 percent;

- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related greenhouse gas emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard; and
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

In addition, the Scoping Plan differentiates between "capped" and "uncapped" strategies. "Capped" strategies are subject to the proposed cap-and-trade program. The Scoping Plan states that the inclusion of these emissions within the cap-and-trade program will help ensure that the year 2020 emission targets are met despite some degree of uncertainty in the emission reduction estimates for any individual measure. Implementation of the capped strategies is calculated to achieve a sufficient amount of reductions by 2020 to achieve the emission target contained in AB 32. "Uncapped" strategies that will not be subject to the cap-and-trade emissions caps and requirements are provided as a margin of safety by accounting for additional greenhouse gas emission reductions.⁴

SB 375. Passing the Senate on August 30, 2008, SB 375 was signed by the Governor on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of greenhouse gas emissions, which emits over 40 percent of the total greenhouse gas emissions in California. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing greenhouse gas emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies. Concerning CEQA, SB 375, section 21159.28 states that CEQA findings determinations for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network if the project:

1. Is in an area with an approved sustainable community's strategy or an alternative planning strategy that the ARB accepts as achieving the greenhouse gas emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the mitigation measures required by an applicable prior environmental document.

Executive Order S-13-08. Executive Order S-13-08 indicates that “climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California’s economy, to the health and welfare of its population and to its natural resources.” Pursuant to the requirements in the order, the 2009 California Climate Adaptation Strategy (California Natural Resources Agency 2009) was adopted, which is the “. . . first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States.” Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Renewable Electricity Standards. On September 12, 2002, Governor Gray Davis signed SB 1078 requiring California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 changed the due date to 2010 instead of 2017. On November 17, 2008, Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established a Renewable Portfolio Standard target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Governor Schwarzenegger also directed the ARB (Executive Order S-21-09) to adopt a regulation by July 31, 2010, requiring the state’s load serving entities to meet a 33 percent renewable energy target by 2020. The ARB Board approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23.

2.2.4 South Coast Air Quality Management District

The project is within the SSAB, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

SCAQMD Threshold Development

The SCAQMD has established recommended significance thresholds for greenhouse gases for local lead agency consideration (“SCAQMD draft local agency threshold”). SCAQMD has published a five-tiered draft GHG threshold which includes a 10,000 metric ton of CO₂e per

year for stationary/industrial sources and 3,000 metric tons of CO₂e per year significance threshold for residential/commercial projects (South Coast Air Quality Management District 2010c). Tier 3 is anticipated to be the primary tier by which the SCAQMD will determine significance for projects. The Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90-percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to CEQA analysis. The 90-percent capture rate GHG significance screening level in Tier 3 for stationary sources was derived using the SCAQMD's annual Emissions Reporting Program.

The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether or not the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose but must be consistent. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
 - All land use types: 3,000 MTCO₂e per year
 - Based on land use types: residential is 3,500 MTCO₂e per year; commercial is 1,400 MTCO₂e per year; and mixed use is 3,000 MTCO₂e per year
- Tier 4 has the following options:
 - Option 1: Reduce emissions from business as usual by a certain percentage; this percentage is currently undefined
 - Option 2: Early implementation of applicable AB 32 Scoping Plan measures
 - Option 3: Year 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e/SP/year for projects and 6.6 MTCO₂e/SP/year for plans;
 - Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

3.0 Setting

3.1 Existing Physical Setting

The project is located in the City of Coachella and is within the Salton Sea Air Basin (SSAB). The middle part of Riverside County (between San Gorgonio Pass and Joshua Tree National Monument) belongs in the SSAB, along with Imperial County. Air quality conditions in this portion of the County, although in the SSAB, are also administered by the SCAQMD.

3.1.1 Local Climate and Meteorology

The SSAB portion of Riverside County is separated from the South Coast Air Basin region by the San Jacinto Mountains and from the Mojave Desert Air Basin to the east by the Little San Bernardino Mountains. During the summer, the SSAB is generally influenced by a Pacific Subtropical High Cell that sits off the coast, inhibiting cloud formation and encouraging daytime solar heating. The SSAB is rarely influenced by cold air masses moving south from Canada and Alaska, as these systems are weak and diffuse by the time they reach the desert. Most desert moisture arrives from infrequent warm, moist and unstable air masses from the south. The SSAB averages between three and seven inches of precipitation per year.

The Coachella Valley is a geographically and meteorologically unique area wholly contained within the Salton Sea Air Basin. The region is currently impacted by significant air pollution levels caused by the transport of pollutants from coastal air basins to the west, primarily ozone, and locally generated PM10. The mountains surrounding the region isolate the Valley from coastal influences and create a hot and dry low lying desert (see Table 1). As the desert heats up it draws cooler coastal air through the narrow San Gorgonio Pass, generating strong and sustained winds that cross the fluvial (water caused) and aeolian (wind) erosion zones in the Valley. These strong winds suspend and transport large quantities of sand and dust, reducing visibility, damaging property, and constituting a significant health threat.

The climatological station closest to the project site is an Indio Fire Station Weather Service Cooperative weather station located in Indio. Climatological data from the National Weather Service at this station spanning the period 1893-2013 indicate an annual average temperature of 73.6 Fahrenheit, with December the coldest month (mean minimum daily temperatures of 39.2° Fahrenheit) and July, the warmest months of the year (mean daily maximum temperatures of 106.9° Fahrenheit).

The majority of the annual rainfall in the basin occurs between November and February. Summer rainfall is minimal and is generally limited to scattered thunderstorms in the coastal regions and slightly heavier showers in the eastern portion of the basin along the coastal side of the mountains. The climatological data from the Indio Fire Station Weather

Service Cooperative weather station spanning the period 1893-2013 indicate an annual average precipitation of 3.3 inches. Year to year patterns in rainfall are unpredictable due to fluctuations in the weather. General meteorological data for the Coachella Valley area, as measured at the Indio Fire Station weather station, are presented in Table 3.

3.1.2 Local Air Quality

The local air quality can be evaluated by reviewing relevant air pollution concentrations near the project area. For evaluation purposes, the South Coast Air Quality Management District (SCAQMD) has divided the basin into 36 Source Receptor Areas (SRA) within the Basin operating monitoring stations in most of the areas. These SRAs are designated to provide a general representation of the local meteorological, terrain, and air quality conditions within the particular geographical area. The project is within SRA 30, Coachella Valley. This station monitors CO, O₃, NO₂, PM₁₀, PM_{2.5}, and SO₂. The pollutant levels from SRA 30 were used to comprise a “background” for the project location.

Table 4 summarizes 2011 through 2013 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone, and PM₁₀ standards.

3.1.3 Attainment Status

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.” National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or ‘form’ of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the federal annual PM_{2.5} standard is met if the three-year average of the annual average PM_{2.5} concentration is less than or equal to the standard. Table 5 lists the attainment status for the criteria pollutants in the Basin.

3.2 Climate Change Setting

Climate change is a change in the average weather of the earth that is measured by alterations in temperature, wind patterns, storms, and precipitation. These changes are assessed using historical records of temperature changes occurring in the past, such as during previous ice ages. The historical data is utilized to extrapolate a level of statistical significance specifically focusing on temperature records from the last 150 years.

The United Nations Intergovernmental Panel on Climate Change (IPCC) constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. The IPCC concluded that global average temperatures and sea levels are expected to rise under all analytical scenarios (Intergovernmental Panel on Climate Change 2007a). The report also concluded that “[w]arming of the climate system is unequivocal,” and that “[m]ost of the observed increase in global average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic greenhouse gas concentrations.”

Many question the validity of the IPCC’s report by claiming the inadequacy of the peer review process. Audits have concluded that 48 percent of the chapters in the Fourth Assessment Report received a grade of “F” meaning that 59 percent or fewer of the sources were peer reviewed (NoConsensus.org 2010).

Consequences of Climate Change in California

In California, climate change may result in consequences such as the following (from California Climate Change Center 2006 and Moser et al. 2010).

- A rise in sea levels resulting in displacement of coastal businesses and residencies. During the past century, sea levels along California’s coast have risen about seven inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 55 inches by the end of the century.
- A reduction in the quality and supply of water from the Sierra snowpack. If heat-trapping emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. This can lead to challenges in securing adequate water supplies. It can also lead to a potential reduction in hydropower.
- Increased risk of large wildfires. If rain increases as temperatures rise, wildfires in the grasslands and chaparral ecosystems of southern California are estimated to increase by approximately 30 percent toward the end of the 21st century because more winter rain will stimulate the growth of more plant “fuel” available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90 percent more northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.
- Reductions in the quality and quantity of certain agricultural products. The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- Exacerbation of air quality problems. If temperatures rise to the medium warming range, there could be 75 to 85 percent more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, relative to today’s conditions. This is more than twice the increase expected if rising temperatures remain in the lower

warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.

- An increase temperature and extreme weather events. Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- A decrease in the health and productivity of California's forests. Climate change can cause an increase in wildfires, an enhanced insect population, and establishment of non-native species.

3.3 Greenhouse Gases

Gases that trap heat in the atmosphere are commonly referred to as "greenhouse gases" because they function like a greenhouse by letting light in while preventing heat from escaping. Naturally occurring GHGs include water vapor, carbon dioxide (CO₂) methane (CH₄) and nitrogen dioxide/oxides (N₂O and NO_x). The natural accumulation of GHGs in the atmosphere has a warming effect on the Earth's temperature. Without these natural GHGs, the Earth's temperature would be cooler.

In addition to the naturally occurring gases, man-made chemicals also act as GHGs and include the following common compounds: chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), ozone (O₃), and aerosols. It is believed that emissions from human activities, such as electricity production and vehicle use, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

Climate change is driven by forcings and feedbacks. Radiative forcing is the difference between the incoming energy and outgoing energy in the climate system. Positive forcing tends to warm the surface while negative forcing tends to cool it. Radiative forcing values are typically expressed in watts per square meter. A feedback is a climate process that can strengthen or weaken a forcing. For example, when ice or snow melts, it reveals darker land underneath which absorbs more radiation and causes more warming. The global warming potential is the potential of a gas or aerosol to trap heat in the atmosphere. The global warming potential of a gas is essentially a measurement of the radiative forcing of a greenhouse gas compared with the reference gas, carbon dioxide.

Individual greenhouse gas compounds have varying global warming potential and atmospheric lifetimes. Carbon dioxide (CO₂), the reference gas for global warming potential, has a global warming potential of one. The global warming potential of a greenhouse gas is a measure of how much a given mass of a greenhouse gas is estimated to contribute to global warming. To describe how much global warming a given type and amount of greenhouse gas may cause, the carbon dioxide equivalent (CO₂ e) is used. The calculation of the carbon dioxide equivalent is a consistent methodology for comparing

greenhouse gas emissions since it normalizes various greenhouse gas emissions to a consistent reference gas, carbon dioxide. For example, methane's warming potential of 21 indicates that methane has 21 times greater warming affect than carbon dioxide on a molecule per molecule basis. A carbon dioxide equivalent is the mass emissions of an individual greenhouse gas multiplied by its global warming potential. Greenhouse gases defined by AB 32 include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. They are described in Table 6.

Emissions Inventories

Emissions in California were approximately 450 million tons of carbon dioxide equivalents (MMTCO₂e) in 2009 (California Air Resources Board, https://www.arb.ca.gov/cc/inventory/pubs/reports/ghg_inventory_00-09_report.pdf).

3.4 Greenhouse Gas Inventory

This analysis is restricted to greenhouse gases identified by AB 32 and the CEQA Guidelines (section 15364.5), which include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. The project would generate a variety of greenhouse gases during construction and operation, including several defined by AB 32 and the CEQA Guidelines such as carbon dioxide, methane, and nitrous oxide.

The project may also emit greenhouse gases that are not defined by AB 32 and the CEQA Guidelines. For example, the project may generate aerosols. During construction, the diesel fueled vehicles and equipment emit diesel particulate matter, which has black carbon, which is a component of aerosol. During operation, any diesel fueled trucks or vehicles could emit aerosols. Aerosols are short-lived particles, as they remain in the atmosphere for about one week. Studies have indicated that black carbon has a high global warming potential; however, the Intergovernmental Panel on Climate Change states that it has a low level of scientific certainty (Intergovernmental Panel on Climate Change 2007a).

Water vapor could be emitted from evaporated water used for landscaping, but this is not a significant impact, because water vapor concentrations in the upper atmosphere are primarily due to climate feedbacks rather than emissions from project-related activities. The project would emit nitrogen oxides and volatile organic compounds, which are ozone precursors. Ozone is a greenhouse gas; however, unlike the other greenhouse gases, ozone in the troposphere is relatively short-lived and can be reduced in the troposphere on a daily basis. Stratospheric ozone can be reduced through reactions with other pollutants.

Certain greenhouse gases defined by AB 32 would not be emitted by the project. Perfluorocarbons and sulfur hexafluoride are typically used in industrial applications, none of which would be used by the project. Therefore, it is not anticipated that the project would emit perfluorocarbons or sulfur hexafluoride.

An upstream emission source (also known as life cycle emissions) refers to emissions that were generated during the manufacture of products to be used for construction of the project. Upstream emission sources for the project include but are not limited to emissions from the manufacture of cement, emissions from the manufacture of steel, and/or emissions from the transportation of building materials to the seller. The upstream emissions were not estimated because they are not within the control of the project and to do so would be speculative at this time. Additionally, the California Air Pollution Control Officers Association White Paper on CEQA and Climate Change supports this conclusion by stating, "The full life-cycle of GHG [greenhouse gas] emissions from construction activities is not accounted for . . . and the information needed to characterize [life-cycle emissions] would be speculative at the CEQA analysis level" (California Air Pollution Control Officers Association 2008). Therefore, pursuant to CEQA Guidelines Sections 15144 and 15145, upstream / life cycle emissions are speculative and no further discussion is necessary.

4.0 Modeling Parameters and Assumptions

4.1 Construction

Emissions were estimated using the California Emissions Estimator Model Version 2013.2.2 (CalEEMod), which was released October 2, 2013. The analysis reflects the construction of land use summary as indicated in Table 1. Construction was anticipated to begin no sooner than January 2015 with a buildout year of 2022. To represent a worst-case scenario the project was analyzed in a single phase where project would be constructed over a seven year period.

The CalEEMod default construction equipment list were multiplied by three (3) to meet the expedited schedule. The construction equipment list used is shown in Table 7. The daily and annual CalEEMod emissions outputs are located in Appendix A.

Other parameters which are used to estimate construction emissions such as the worker and vendor trips and trip lengths utilize the CalEEMod defaults. The trips assumptions are provided in Table 8.

Grading. The quantity of fugitive dust by CalEEMod is based on the number of equipment used during grading. Tractors, graders, and dozers would typically impact 10.5 acres (during site prep) and up to 15 acres (during grading) per 8-hour day if all were used simultaneously. However to reduce project impacts to an insignificant level, mitigation measure MM-1 is required to reduce project impacts.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rules 403 and 403.1 establish these procedures. Compliance with these rules is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent and stabilizing ground cover on finished sites.

In addition, any operator applying for a grading permit, or a building permit for an activity with a disturbed surface area of more than 5,000 square feet, shall not initiate any earth-moving operations unless a Fugitive Dust Control Plan has been prepared pursuant to the provisions of the Coachella Valley Fugitive Dust Control Handbook and approved by the City. It is anticipated that this project will obtain and prepare the required Fugitive Dust Control Plan.

SCAQMD's Rule 403 and 403.1 minimum requirements require that the application of the best available dust control measures are used for all grading operations and include the application of water or other soil stabilizers in the sufficient quantity to prevent the

generation of visible dust plumes. Compliance with Rules 403 and 403.1 would require the use of water trucks during all phases where earth moving operations would occur.

4.2 Operations

Operational or long-term emissions occur over the life of the Project. Both mobile and area sources generate operational emissions. Area source emissions arise from consumer product usage, heaters that consume natural gas, gasoline-powered landscape equipment, gasoline service station, and architectural coatings (painting). Mobile source emissions from motor vehicles are the largest single long-term source of air pollutants from the operation of the Project and consist of emissions from vehicles visiting the project site. Small amounts of emissions would also occur from area sources such as the consumption of natural gas for heating, hearths, from landscaping emissions, and consumer product usage.

4.2.1 Motor Vehicle Emissions

Estimates of motor vehicle emissions require information on four parameters: trip generation, mix of vehicles accessing the Project (i.e., car versus type of truck), length of each trip made by each type of vehicle, and emission factor (quantity of emission for each mile traveled or time spent idling by each vehicle). Each of these parameters is discussed below.

Home, Work, Shop, and Other Trips

The percentages of home–work, home–shop, and home–other trips are from CalEEMod defaults. The trip generation rates are from the traffic study (prepared by RK, 2014) and the Institute of Transportation Engineers (ITE) Trip Generation Manual 9th Edition and are shown in Table 9.

The percentages for work, shop, and other trips are from the CalEEMod defaults. A summary of the operational vehicle trip assumptions from CalEEMod are demonstrated in Table 10.

Emission Factors

The emission factors (from EMFAC2011) required to estimate the mobile source emissions are embedded in the CalEEMod emissions model.

4.2.2 Other Emissions

Natural Gas. Natural gas emissions refer to the emissions that occur when natural gas is combusted on the project site for heating water, space heating, stoves, or other uses. Criteria air pollutant and greenhouse gas emissions were estimated using CalEEMod defaults.

Indirect Electricity. Indirect electricity refers to the greenhouse gas emissions generated by offsite power plants to supply the electricity required for the project. The CalEEMod defaults for energy intensity were used.

Water Transport. There would be greenhouse gas emissions generated from the electricity required to supply and treat the water to be used on the project site. The water consumption for the Project is 224,301,838 gallons of water per year.

Waste. There would be greenhouse gas emissions from the decomposing waste generated by the project. The CalEEMod default estimates the Project scenario would generate 1,785.53 tons per year.

4.3 Localized Construction Analysis Modeling Parameters

The SCAQMD has published a “Fact Sheet for Applying CalEEMod to Localized Significance Thresholds” (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

- 1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
- 2) The maximum number of acres disturbed on the peak day.
- 3) Any emission control devices added onto off-road equipment.
- 4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The local air quality emissions from construction were analyzed using the SCAQMD’s Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NO_x, PM₁₀, and PM_{2.5} from the proposed project could result in a significant impact to the local air quality.

Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to adverse air quality. Nearby existing sensitive receptors in the project vicinity include one (1) residential unit within approximately 100 meters (to the west) of the project site.

These look-up tables were utilized to determine localized significance. The construction emissions were compared to the SCAQMD’s threshold tables with a disturbance area of 5 acres. Even though the project may have a peak disturbance of up to 15 acres, the tables

for a 5-acre footprint was justifiably used as a result of the aforementioned mitigation measure (MM-1). It should be noted that the analysis reviews construction over the entire site area when in reality the project will be constructed in phases. The disturbance area for each phase will be less than the simulated peak disturbance.

It should be noted that since the Project is at the specific plan level specific details about the project are still not completely available. This study reviews the emissions from a worst-case standpoint. Once additional site plans/tract maps are available, additional Air/GHG studies will be prepared to evaluate impact significance. Those studies will have to incorporate the mitigation measures that have been outlined within this study.

4.4 Localized Operational Analysis Modeling Parameters

According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources, or attracts mobile sources (such as heavy-duty-trucks) that may spend long periods of time queuing and idling at the site; such as industrial warehouse/transfer facilities. The proposed project does not include such uses. During operation, on-site emissions would be negligible and would primarily consist of the intermittent on-site travel of motor vehicles. There, due to the lack of stationary source emissions, no long-term localized significance threshold analysis is warranted.

5.0 Thresholds of Significance

5.1 Air Quality Thresholds of Significance

5.1.1 CEQA Guidelines for Air Quality

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

The following air quality significance thresholds are contained in Appendix G of the CEQA Guidelines. A significant impact would occur if the project would:

- a) Conflict with or obstruct implementation of the applicable air quality plan;
- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable national or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);
- d) Expose sensitive receptors to substantial pollutant concentrations; or
- e) Create objectionable odors affecting a substantial number of people.

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, SCAQMD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the Lead Agency finds that the project has the potential to exceed these air pollution thresholds, the project should be considered to have significant air quality impacts. There are daily emission thresholds for construction and operation of a proposed project in the Basin.

5.1.2 Regional Significance Thresholds for Construction Emissions

The following CEQA significance thresholds for construction emissions are established for the Coachella Valley portion of the Salton Sea Air Basin (SSAB):

- 75 pounds per day (lbs/day) of ROC
- 100 lbs/day of NO_x
- 550 lbs/day of CO
- 150 lbs/day of PM₁₀
- 55 lbs/day of PM_{2.5}
- 150 lbs/day of SO₂

Projects in the SSAB with construction-related emissions that exceed any of the emission thresholds are considered to be significant under SCAQMD guidelines.

5.1.3 Regional Significance Thresholds for Operational Emissions

The daily operational emissions significance thresholds for the Coachella Valley portion of the Salton Sea Air Basin SSAB are the same as the construction emissions thresholds above.

Local Microscale Concentration Standards The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. If ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a State or federal standard, project emissions are considered significant if they increase 1-hour CO concentrations by 1.0 ppm or more or 8-hour CO concentrations by 0.45 ppm or more. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20.0 ppm
- California State 8-hour CO standard of 9.0 ppm

5.1.4 Thresholds for Localized Significance

LSTs represent the maximum emissions from a project site that is not expected to result in an exceedance of the national or state AAQS shown in Table 4. LSTs are based on the ambient concentrations of that pollutant within the project source receptor area (SRA) and the distance to the nearest sensitive receptor. For this project, the appropriate SRA for the LST is the Coachella Valley SRA 30.

In the case of CO and NO₂, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a State or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM₁₀ and PM_{2.5}, both of which are non-attainment pollutants. For these two, the significance criteria are the pollutant concentration thresholds presented in SCAQMD Rules 403 and 1301. The Rule 403 threshold of 10.4 micrograms per cubic meter applies to construction emissions (and may apply to operational emissions at aggregate handling facilities).

Construction LSTs are assessed with the SCAQMD screening thresholds. Construction thresholds for a 5-acre site in the Coachella Valley (SRA 30) at 100 meters were utilized:

- 425 lbs/day of NO_x
- 5,331 lbs/day of CO
- 67 lbs/day of PM₁₀
- 19 lbs/day of PM_{2.5}

5.2 Greenhouse Gas Thresholds of Significance

5.2.1 CEQA Guidelines for Greenhouse Gas

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

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

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

5.2.2 SCAQMD Interim Significance Thresholds

In addition to CEQA guidelines, the SCAQMD established working group to develop an interim significance threshold for GHG emissions under CEQA as discussed in Section 3.4.1. This analysis compares the Project’s GHG emissions to the SCAQMD’s Tier 3 and 4 approach.

5.2.3 City of Coachella Thresholds

The City of Coachella’s Climate Action Plan provides direction on how the City plans to achieve 15% reduction below 2010 (per service population) emissions by 2020. Projects that do not exceed 3,000 MTCO₂e per year will be consistent with the GHG Plan and determined to have a less than significant individual and cumulative impact for GHG emissions. For projects that exceed 3,000 MTCO₂e per year of GHG emissions the applicant may choose to provide mitigation which demonstrates a 15% target reduction (7.8 MTCO₂e/SP/year) below 2010 (per service population) emissions by 2020.

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6.0 Air Quality Impact Analysis

6.1 Construction Air Quality Emissions Impact

6.1.1 Regional Construction Emissions

CalEEMod was used to estimate onsite and offsite construction emissions as shown in Table 11. The construction emissions incorporate Rules 403 and 403.1. The mitigated construction emissions incorporate mitigation measures MM-1 through MM-3. Daily emissions CalEEMod outputs are located in Appendix A. The emissions will be below the SCAQMD thresholds of significance for regional construction emissions. **Therefore, the project will have a less than significant impact**

6.1.2 Localized Construction Emissions

Table 12 illustrates the construction related LSTs for the project area. **The emissions will be below the SCAQMD thresholds of significance for localized construction emissions.** Therefore, the Project will not result in significant localized construction emissions.

6.1.3 Fugitive Dust

Fugitive dust emissions are generally associated with land clearing and exposure of soils to the air and wind, and cut-and-fill grading operations. Dust generated during construction varies substantially on a project-by-project basis, depending on the level of activity, the specific operations, and weather conditions at the time of construction.

Construction emissions can vary greatly depending on the level of activity, the specific operations taking place, the equipment being operated, local soils, weather conditions, and other factors. The proposed Project will be required to comply with SCAQMD Rules 402, 403 and 403.1 to control fugitive dust. Table 11 illustrates total construction emissions, i.e., fugitive-dust emissions and construction equipment exhausts that have incorporated a number of feasible control measures that can be reasonably implemented to significantly reduce PM₁₀ emissions from construction. **Table 11 illustrates that all construction phases, the daily total construction emissions with standard control measures, would be below the daily thresholds established by the SCAQMD.** Therefore, the Project will not result in significant Fugitive Dust emissions.

6.1.4 Odors

Heavy-duty equipment in the project area during construction will emit odors; however, the construction activity would cease to occur after individual construction is completed. Potential sources that may emit odors during operations of proposed project would include odors emissions from diesel truck emissions and trash storage areas. **Due to the distance**

of the nearest receptors from the proposed project site and through compliance to SCAQMD's Rule 402, no significant impact related to odors would occur during operation.

6.1.5 Naturally Occurring Asbestos

The proposed project is located in Riverside County which is not among the counties that are found to have serpentine and ultramafic rock in their soils. **Therefore, the potential risk for naturally occurring asbestos (NOA) during project construction is small and less than significant.**

6.1.6 Construction-Related Toxic Air Contaminant Impact

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of "individual cancer risk". "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 70-year lifetime will contract cancer, based on the use of standard risk-assessment methodology. Given the relatively limited number of heavy-duty construction equipment and the short-term construction schedule, the proposed project would not result in a long-term (i.e., 70 years) substantial source of toxic air contaminant emissions and corresponding individual cancer risk. Therefore, no significant short-term toxic air contaminant impacts would occur during construction of the proposed project.

6.2 Operational Air Quality Emissions Impact

6.2.1 Regional Operational Emissions

Long-term air pollutant emission impacts are those associated with stationary sources and mobile sources involving any project-related changes. The stationary source emissions would come from additional natural gas consumption for on-site buildings and electricity for the lighting in the buildings and at the parking area. Based on trip generation factors included in the traffic study, long-term operational emissions associated with the proposed Project, calculated with the CalEEMod model, are shown in Table 13. Area sources include architectural coatings, consumer products, and landscaping. Energy sources include natural gas consumption for heating.

Table 13 shows that when the project is fully operational, the project would exceed SCAQMD regional thresholds for VOC, NO_x, and CO. **Even with the incorporation of mitigation measures MM-4 through MM-12, the project would have a significant and unavoidable impact.**

6.2.2 Localized Operational Emissions

Per SCAQMD methodology, LST analysis is not warranted.

6.3 CO Hot Spot Emissions

The SCAQMD recommends that a local CO hot spot analysis be conducted if the intersection meets one of the following criteria: 1) the intersection is at level of service (LOS) D or worse and where the project increases the volume to capacity ratio by 2 percent, or 2) the project decrease at an intersection from C to D.

Mirco-scale air quality emissions have traditionally been analyzed in environmental documents where the air basin was a non-attainment area for CO. However, the SCAQMD has demonstrated in the CO attainment redesignation request to EPA that there are no “hot spots” anywhere in the air basin, even at intersections with much higher volumes, much worse congestion, and much higher background CO levels than anywhere in Riverside County. **If the worst-case intersections in the air basin have no “hot spot” potential, any local impacts will be below thresholds.**

6.4 Air Quality Mitigation Measures

Air Quality Reduction Measures

The Project is required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 and 403.1 requires that fugitive dust be controlled with best-available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 and 403.1 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Applicable suppression techniques are as follows:

- Apply nontoxic chemical soil stabilizers according to manufacturers’ specifications to all inactive construction areas (previously graded areas in active for 10 days or more).
- Water active sites at least three times daily.
- Cover all trucks hauling dirt, san, soil, or other loose materials, or maintain at least 2 feet of freeboard in accordance with the requirements of California Vehicle Code (CVC) section 23114.
- Pave construction access roads at least 100 feet onto the site from the main road.
- Reduce traffic speeds on all unpaved roads to 15 mph or less.

Air Quality Impact Construction Mitigation Measures

The following mitigation measures are required to maintain the construction emissions below the SCAQMD daily emissions thresholds:

- MM-1** The project shall require that the site preparation and grading contractors limit the daily disturbed area to 5 acres or less.

- MM-2** The project shall require that during site preparation, and grading operations all contractors shall comply with all applicable measures listed in SCAQMD Rule 403 and 403.1 to control fugitive dust including the application of water to all exposed surfaces a minimum of three times per day. The project will also comply with the requirements of the Coachella Valley Fugitive Dust Control Handbook and prepared and prepare the required fugitive dust control plan.

- MM-3** The project shall require that construction contractor use construction equipment that have Tier 4 final engines, level 3 diesel particulate filters (DPF), with oxidation catalyst that impart 20% reduction and apply coatings with a VOC content no greater than 10 g/L.

Air Quality Impact Operational Measures

- MM-4** Project shall improve the pedestrian network by incorporating sidewalks along the property and connecting off-site.

- MM-5** Project shall follow 2013 Title 24 Residential Standards, which are at least 25 percent more efficient than 2008 Title 24 Part 6 energy efficiency standards and meet Green Building Code Standards.

- MM-6** Project shall require all faucets, toilets, and showers installed in the proposed structure utilize low-flow fixtures such that indoor water demand is reduced by 20%.

- MM-7** Project shall require landscaping and irrigation that reduces outside water demand by at least 20%.

- MM-8** Project shall require that ENERGY STAR appliances be installed in new homes.

- MM-9** Project shall require that a recycling program is implemented that reduces waste to landfills by a minimum of 75 percent.

- MM-10** Project shall require that all lighting in the proposed structures uses an average of 5 percent less energy than conventional lighting.
- MM-11** Project shall require the use of paints with VOC content lower than SCAQMD Rule 1113 requires for application to surfaces of homes within the project site.
- MM-12** Project shall require that at least 2,406 new trees are planted on-site (approximately 2 trees per residential unit and 25 trees per acre of parks).

6.5 Air Quality Management Plan Consistency

An AQMP describes air pollution control strategies to be taken by a city, county, or region classified as a nonattainment area. The main purpose of an AQMP is to bring the area into compliance with federal and State air quality standards. CEQA requires that certain proposed projects be analyzed for consistency with the AQMP. For a project to be consistent with the AQMP adopted by the SCAQMD, the pollutants emitted from the project should not exceed the SCAQMD daily threshold or cause a significant impact on air quality, or the project must already have been included in the AQMP projection. However, if feasible mitigation measures are implemented and shown to reduce the impact level from significant to less than significant, a project may be deemed consistent with the AQMP. The AQMP uses the assumptions and forecast projections of local planning agencies to determine control strategies for regional compliance status. Since the AQMP is based on the local General Plan, projects that are deemed consistent with the General Plan are found to be consistent with the AQMP.

The project will be required to follow the Coachella Valley PM10 State Implementation Plan which as previously discussed outlines additional emission reduction measures associated with Rule 403.1 (see Section 2.1.2). Mitigation Measure 2 is required to remain consistent to the Coachella Valley PM10 State Implementation Plan.

As demonstrated above, the proposed Project's emissions exceed the regional significance operational thresholds, even with mitigation measures, and would therefore be considered significant and unavoidable.

6.6 Health Risk Assessment

The SCAQMD has prepared a guidance document, "*Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning, (A Reference for Local Governments Within the South Coast Air Quality Management District)*" for addressing health risks for new developments (where sensitive receptors are of a concern) that occur along or near freeways. Appendix C contains the quoted document; however the full document is available on SCAQMD's website.

http://www.aqmd.gov/prdas/aqguide/doc/aq_guidance.pdf

The guidance document discuss that busy traffic corridors in urban areas are defined as Freeways with an ADT above 100,000 and roadways with an ADT above 50,000. In addition the document demonstrates the drop off rate at which air pollution levels decrease as the separation distances increases from the edge of the freeway. The busiest roadway segment near the project site is Interstate 10, which will have an estimated 40,855 ADT in Year 2035. According to the guidance document the ADT volume is below the definition of a busy corridor.

Figure 2-1 and Table 2-2 within Appendix B demonstrates the drop off rate at which the pollution concentration is reduced as the separation distance increases. The data demonstrates that a minimum distance that separates sources of diesel emissions from nearby receptors is effective in reducing potential cancer risk.

The Health Risk Assessment impact would be considered less than significant

7.0 Greenhouse Gas Impact Analysis

The project's emissions were initially compared to the screening SCAQMD draft threshold of 3,000 metric tons CO₂e per year for all land uses. If the project exceeds the screening thresholds, then, per the directions of SCAQMD the project may be compared to the Tier 4 (option 3) approach. Therefore, the Project's Year 2020 mitigated emissions were compared to the SCAQMD's 4.8 MTCO₂e/SP/year and to the City's CAP 7.0 MTCO₂e/SP/year target.

Therefore, this project has used the screening SCAQMD draft threshold of 3,000 metric tons CO₂e per year for all land uses (see Table 14), followed by the project's Year 2020 mitigated emissions to determine project's impact (See Table 15).

7.1 Construction Greenhouse Gas Emissions Impact

CalEEMod was used to estimate the onsite and offsite construction emissions. The total construction emissions amortized over a period of 30 years are estimated to be 653.85 MTCO₂e per year.

7.2 Operational Greenhouse Gas Emissions Impact

Table 14 shows that the proposed project's emissions would be 29,991 MTCO₂e/yr. According to SCAQMD, a cumulative global impact would occur if the GHG emissions created from the on-going operation would exceed the screen thresholds of 3,000 MTCO₂e/year.

As the project's GHG emissions exceeded the screening threshold, the project's Year 2020 emissions were compared to the SCAQMD's and the City's CAP target service population of 4.8 MTCO₂e/SP/year and to the City's CAP 7.0 MTCO₂e/SP/year, respectively.

The service population for the project was calculated by reviewing the City of Coachella's service population rate, the construction of 1,640 homes, with the addition of 562 employees (based on the Riverside County commercial employment rate of 500 square feet per employee).

As shown in Table 15, the project's emissions would be 3.27 MTCO₂e/SP/yr which is below both the SCAQMD's and the City's CAP service population target. Table 15 shows the Year 2020 emissions and includes reductions from design features and sequestration as detailed in the report. A 25% improvement was used under Energy Mitigation in CalEEMod, as the 2013 Title 24 Standards for residential construction are at least 25% more efficient than 2008 Standards. The CAPCOAT-related mitigation selected in CalEEMod are detailed as comments in the annual emission output (Appendix A). As shown in Table 15, with the incorporation of mitigation measures MM-4 through MM-12 and the planting of approximately 2,406 new trees, the project's emissions would be reduced to 3.27

MTCO₂e/SP/yr, which meets the threshold. Therefore, operation of the proposed project would not create a significant cumulative impact to global climate change.

7.2.1 Operational Mitigation Measure Reductions

Same as MM-4 through MM-12.

7.3 Conflict with an Applicable Plan, Policy or Regulation for the Purpose of Reducing the Emissions of Greenhouse Gases

The Project will promote the goals of AB 32. The Project site location is positioned within the City's planned growth urban footprint. The Project incorporates a number of features that would minimize greenhouse gas emissions. Although the Project would generate greenhouse gas emissions, these emissions would not have a significant impact on the environment.

The core mandate of AB 32 is that statewide GHG emissions in Year 2020 be equal to Year 1990 levels. The proposed project would be required to include all mandatory green building measures for new residential developments under CalGreen Code. The implementation of these stricter building and appliance standards would result in water, energy, and construction waste reductions for the proposed project.

Emission reductions in California alone would not be able to stabilize the concentration of greenhouse gases in the earth's atmosphere. However, California's actions set an example and drive progress towards a reduction in greenhouse gases elsewhere. If other states and countries were to follow California's emission reduction targets, this could avoid medium or higher ranges of global temperature increases. Thus, severe consequences of climate change could also be avoided.

The ARB Board approved a Climate Change Scoping Plan in December 2008. The Scoping Plan outlines the State's strategy to achieve the 2020 greenhouse gas emissions limit. The Scoping Plan "proposes a comprehensive set of actions designed to reduce overall greenhouse gas emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health" (California Air Resources Board 2008). The measures in the Scoping Plan have been in place since 2012.

In May 2014, CARB released its *First Update to the Climate Change Scoping Plan* (CARB 2014). This *Update* identifies the next steps for California's leadership on climate change. While California continues on its path to meet the near-term 2020 greenhouse gas limit, it must also set a clear path toward long-term, deep GHG emission reductions. This report highlights California's success to date in reducing its GHG emissions and lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050.

The 2008 Scoping Plan calls for an “ambitious but achievable” reduction in California’s greenhouse gas emissions, cutting approximately 30 percent from business-as-usual emission levels projected for 2020, or about 15 percent from today’s (2010) levels. On a per-capita basis, that means reducing annual emissions of 14 tons of carbon dioxide for every man, woman and child in California down to about 10 tons per person by 2020.

Project consistency with applicable strategies in the Plan is assessed as well as the City’s Climate Action Plan (CAP). As previously mentioned, the project’s Year 2020 emissions were compared to the SCAQMD’s and the City’s CAP target service population of 4.8 MTCO₂e/SP/year and to the City’s CAP 7.0 MTCO₂e/SP/year, respectively.

The project’s emissions would be 3.27 MTCO₂e/SP/yr which is below both the SCAQMD’s and the City’s CAP service population target. In addition, Table 16 shows the applicable strategies that would be implemented into the project and would result in a less than significant impact. The project will be subject to the policies and ordinances pertaining to air quality and climate change stated in the City’s/County’s General Plan. Although the project would generate greenhouse gas emissions, either directly or indirectly, these emissions are not considered to have a significant impact on the environment.

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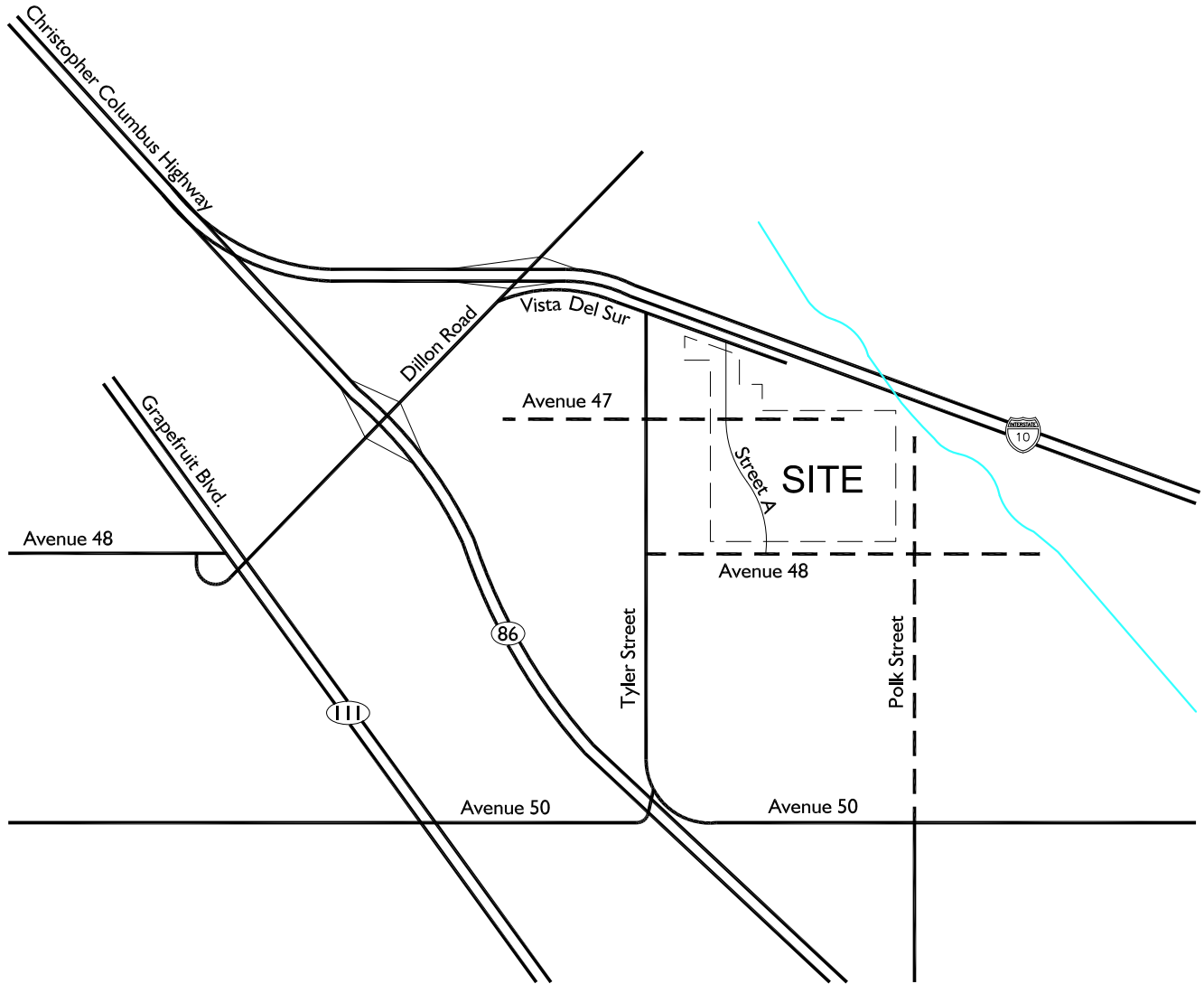
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Exhibits

Exhibit A Location Map

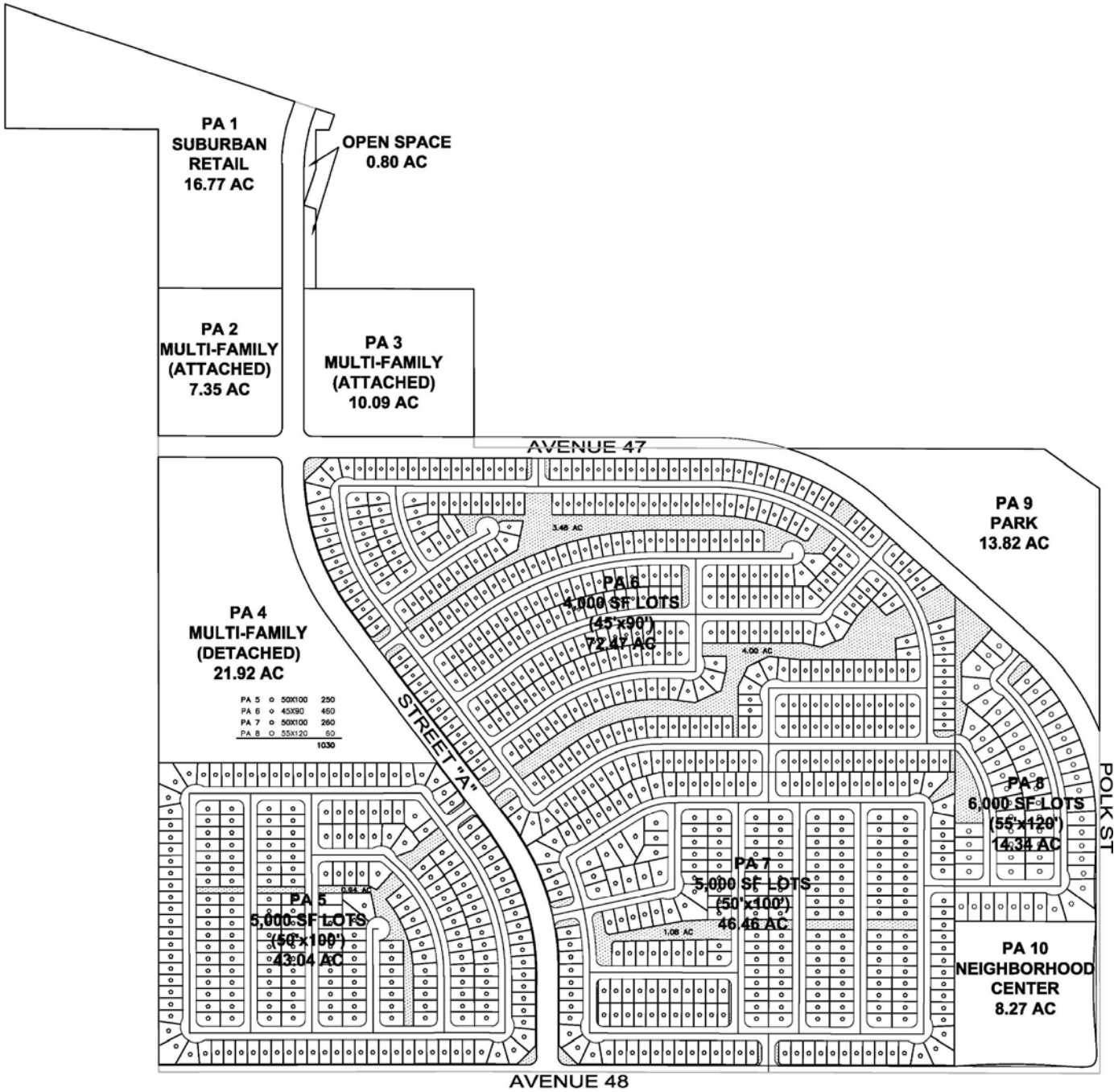


Legend:

- - = Dirt Road
- - = Canal



Exhibit B Site Plan



Tables

TABLE 1
Land Use Summary

Planning Area	Land Use	Unit Amount	Size Metric
1	Shopping Center	191.34	Thousand Square Feet
2	Apartments	146	Dwelling Units
3	Apartments	201	Dwelling Units
4	Condos/Townhomes	263	Dwelling Units
5	Single Family	250	Dwelling Units
6	Single Family	460	Dwelling Units
7	Single Family	260	Dwelling Units
8	Single Family	60	Dwelling Units
9	City Park	13.82	Acres
10	Shopping Center	90.06	Thousand Square Feet
--	On-site Roads	20.0	Acres
--	Parking Lots	6.46	Acres

TABLE 2
Description of Air Pollutants

Air Pollutant	Averaging Time	California Standard	Federal Standard ¹	Most Relevant Effects from Pollutant Exposure	Properties	Sources
Ozone	1 Hour	0.09 ppm	--	(a) Decrease of pulmonary function and localized lung edema in humans and animals; (b) risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) increased mortality risk; (d) altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) vegetation damage.	Ozone is a photochemical pollutant as it is not emitted directly into the atmosphere, but is formed by a complex series of chemical reactions between volatile organic compounds (VOC), NOx, and sunlight. Ozone is a regional pollutant that is generated over a large area and is transported and acted by the wind.	Ozone is a secondary pollutant; thus, it is not emitted directly into the lower level of the atmosphere. The primary sources of ozone precursors (VOC and NOx) are mobile sources (on-road and off-road vehicle exhaust).
	8 Hour	0.070 ppm	0.075 ppm ⁴			
Carbon Monoxide (CO)	1 Hour	20 ppm	35 ppm	(a) Aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; (b) decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) impairment of central nervous system functions; (d) possible increased risk to fetuses.	CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, and replaces oxygen as an attachment to hemoglobin, and reduces available oxygen in the blood.	CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial processes (metals processing and chemical manufacturing), residential wood burning, and natural sources.
	8 Hour	9 ppm	9 ppm			
Nitrogen Dioxide (NO ₂) ²	1 Hour	0.18 ppm	0.100 ppm	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; (c) contribution to atmospheric discoloration.	During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides - NOx (NO, NO ₂ , NO ₃ , N ₂ O, N ₂ O ₅ , and H ₂ O ₂). NOx is a precursor to ozone, PM ₁₀ , and PM _{2.5} formation. NOx can react with compounds to form nitric acid and related particles.	NOx is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. NO ₂ concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations.
	Annual	0.030 ppm	0.053 ppm			
Sulfur Dioxide (SO ₂)	1 Hour	0.25 ppm	0.075 ppm	Bronchospasm accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient sulfur dioxide levels. It is not clear whether the two pollutant alone is the predominant factor.	Sulfur dioxide is a colorless, pungent gas. At levels greater than 0.5 ppm, the gas has a strong odor, similar to rotten eggs. Sulfur oxides (SOx) include sulfur dioxide and sulfur trioxide. Sulfuric acid is formed from sulfur dioxide, which can lead to acid deposition and can harm natural resources and materials. Although sulfur dioxide concentrations have been reduced to levels well below state and federal standards, further reductions are desirable because sulfur dioxide is a precursor to sulfate and PM _{2.5} .	Human caused sources include fossil-fuel combustion, mineral ore processing, and chemical manufacturing. Volcanic emissions are a natural source of sulfur dioxide. The gas can also be produced in the air by dimethylsulfide and hydrogen sulfide. Sulfur dioxide is removed from the air by dissolution in water, chemical reactions, and transfer to soils and ice caps. The sulfur dioxide levels in the State are well below the maximum standards.
	3 Hour	--	0.5 ppm			
	24 Hour	0.04 ppm	--			
Particulate Matter (PM ₁₀)	24 Hour	50 µg/m ³	150 µg/m ³	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) declines in pulmonary function growth in children; (c) increased risk of premature death from heart or lung diseases in the elderly. Daily fluctuations in PM _{2.5} levels have been related to hospital admissions for acute respiratory conditions, school absences, and increased medication use in children and adults with asthma.	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid forms with liquid coatings. The particles vary in shape, size, and composition. PM ₁₀ refers to particulate matter that is between 2.5 and 10 microns in diameter. (1 micron is one-millionth of a meter). PM _{2.5} refers to particulate matter that is 2.5 microns or less in diameter.	Stationary sources include fuel combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust.
	Mean	20 µg/m ³	--			
Particulate Matter (PM _{2.5})	24 Hour	--	35 µg/m ³	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) declines in pulmonary function growth in children; (c) increased risk of premature death from heart or lung diseases in the elderly. Daily fluctuations in PM _{2.5} levels have been related to hospital admissions for acute respiratory conditions, school absences, and increased medication use in children and adults with asthma.	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid forms with liquid coatings. The particles vary in shape, size, and composition. PM ₁₀ refers to particulate matter that is between 2.5 and 10 microns in diameter. (1 micron is one-millionth of a meter). PM _{2.5} refers to particulate matter that is 2.5 microns or less in diameter.	Stationary sources include fuel combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust.
	Annual	12 µg/m ³	15 µg/m ³			
Visibility reducing particles	8 Hour	Extinction coefficient of 0.23 per kilometer; visibility of ten miles or more (0.07 - 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent.	--	(a) Decrease in ventilatory function; (b) aggravation of asthmatic symptoms; (c) aggravation of cardiopulmonary disease; (d) vegetation damage; (e) degradation of visibility; (f) property damage.	The sulfate ion is a polyatomic anion with the empirical formula SO ₄ 2-. Sulfates occur in combination with metal and/or hydrogen ions. Many sulfates are soluble in water.	Sulfates are particulates formed through the photochemical oxidation of sulfur dioxide. In California, the main source of sulfur compounds is combustion of gasoline and diesel fuel.
		30-day Quarter Rolling 3 rd month Average	1.5 µg/m ³			
Sulfates	24 Hour	25 µg/m ³	--	(a) Decrease in ventilatory function; (b) aggravation of asthmatic symptoms; (c) aggravation of cardiopulmonary disease; (d) vegetation damage; (e) degradation of visibility; (f) property damage.	The sulfate ion is a polyatomic anion with the empirical formula SO ₄ 2-. Sulfates occur in combination with metal and/or hydrogen ions. Many sulfates are soluble in water.	Sulfates are particulates formed through the photochemical oxidation of sulfur dioxide. In California, the main source of sulfur compounds is combustion of gasoline and diesel fuel.
	30-day Quarter Rolling 3 rd month Average	1.5 µg/m ³	1.5 µg/m ³			
Lead ³	30-day Quarter Rolling 3 rd month Average	--	1.5 µg/m ³	Lead accumulates in bones, soft tissue, and blood and can affect the kidney, liver, and nervous system. It can cause impairment of blood formation and nerve conduction, behavior disorders, mental retardation, neurological impairment, learning deficiencies, and low IQ.	Lead is a solid heavy metal that can exist in air pollution as an aerosol particle component. Leaded gasoline was used in motor vehicles until around 1970. Lead concentrations have not exceeded state or federal standards at any monitoring station since 1982.	Lead ore crushing, lead-ore smelting, and battery manufacturing are currently the largest sources of lead in the atmosphere in the United States. Other sources include dust from soils contaminated with lead-based paint, solid waste disposal, and crustal physical weathering.
		--	0.15 µg/m ³			
Vinyl chloride ³	24 Hour	0.01 ppm	--	Short-term exposure to high levels of vinyl chloride in the air causes central nervous system effects, such as dizziness, drowsiness, and headaches. Epidemiological studies of occupationally exposed workers have linked vinyl chloride exposure to development of a rare cancer, liver angiosarcoma, and have suggested a relationship between exposure and lung and brain cancers. High levels of hydrogen sulfide can cause immediate respiratory arrest. It can irritate the eyes and respiratory tract and cause headache, nausea, vomiting, and cough. Long exposure can cause pulmonary edema.	Vinyl chloride, or chloroethene, is a chlorinated hydrocarbon and a colorless gas with a mild, sweet odor. In 1990, ABB identified vinyl chloride as a toxic air contaminant and estimated a cancer unit risk factor.	Most vinyl chloride is used to make polyvinyl chloride plastic and vinyl products, including pipes, wire and cable coatings, and packaging materials. It can be formed when plastics containing these substances are left to decompose in solid waste landfills, landfills, and hazardous waste sites.
		0.03 ppm	--			
Hydrogen sulfide	24 Hour	0.03 ppm	--	Short-term (acute) exposure of high doses from inhalation of benzene may cause dizziness, drowsiness, headaches, eye irritation, skin irritation, and respiratory tract irritation, and at higher levels, loss of consciousness can occur. Long-term (chronic) occupational exposure of high doses has caused blood disorders, leukemia, and lymphatic cancer.	Hydrogen sulfide (H ₂ S) is a flammable, colorless, poisonous gas that smells like rotten eggs.	Manure, storage tanks, ponds, anaerobic lagoons, and land application sites are the primary sources of hydrogen sulfide. Anthropogenic sources include the combustion of sulfur containing fuels (oil and coal).
		0.03 ppm	--			
Volatile organic compounds (VOC)	There are no State or federal standards for VOC because they are not classified as criteria pollutants.	There are no State or federal standards for VOC because they are not classified as criteria pollutants.	There are no State or federal standards for VOC because they are not classified as criteria pollutants.	Short-term (acute) exposure of high doses from inhalation of benzene may cause dizziness, drowsiness, headaches, eye irritation, skin irritation, and respiratory tract irritation, and at higher levels, loss of consciousness can occur. Long-term (chronic) occupational exposure of high doses has caused blood disorders, leukemia, and lymphatic cancer.	Reactive organic gases (ROG) or VOCs are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbonates or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROG and VOCs, the two terms are often used interchangeably.	Indoor sources of VOCs include paints, solvents, aerosol sprays, cleaners, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM ₁₀ and lower visibility.
Benzene	There are no ambient air quality standards for benzene.	There are no ambient air quality standards for benzene.	There are no ambient air quality standards for benzene.	Short-term (acute) exposure of high doses from inhalation of benzene may cause dizziness, drowsiness, headaches, eye irritation, skin irritation, and respiratory tract irritation, and at higher levels, loss of consciousness can occur. Long-term (chronic) occupational exposure of high doses has caused blood disorders, leukemia, and lymphatic cancer.	Benzene is a VOC. It is a clear or colorless light-yellow, volatile, highly flammable liquid with a gasoline-like odor. The EPA has classified benzene as a "Group A" carcinogen.	Benzene is emitted into the air from fuel evaporation, motor vehicle exhaust, tobacco smoke, and from burning oil and coal. Benzene is used as a solvent for paints, inks, oils, waxes, plastic, and rubber. It is used in the extraction of oils from seeds and nuts and in the manufacture of detergents, explosives, and pharmaceuticals.
Diesel particulate matter (DPM)	There are no ambient air quality standards for DPM.	There are no ambient air quality standards for DPM.	There are no ambient air quality standards for DPM.	Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation, coughs, headaches, light-headedness, and nausea. Studies have linked elevated particulate levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Human studies on the carcinogenicity of DPM demonstrate an increased risk of lung cancer, although the increased risk cannot be clearly attributed to diesel exhaust exposure.	DPM is a source of PM _{2.5} —diesel particles are typically 2.5 microns and smaller. Diesel exhaust is a complex mixture of thousands of particles and gases that is produced when an engine burns diesel fuel. Organic components account for 80 percent of the total particulate matter mass, which consists of compounds such as hydrocarbons and their derivatives, and polycyclic aromatic hydrocarbons and their derivatives. Fifteen polycyclic aromatic hydrocarbons are confirmed carcinogens, a number of which are found in diesel exhaust.	Diesel exhaust is a major source of ambient particulate matter pollution in urban environments. Typically, the main source of DPM is from combustion of diesel fuel in diesel-powered engines. Such engines are in on-road vehicles such as diesel trucks, off-road construction vehicles, diesel electrical generators, and various pieces of stationary construction equipment.

Notes:

- ppm = parts per million (concentration) µg/m³ = micrograms per cubic meter Annual = Annual Arithmetic Mean 30-day = 30-day average Quarter = Calendar quarter
- ¹ Federal standard refers to the primary national ambient air quality standard, or the levels of air quality necessary, with an adequate margin of safety to protect the public health. All standards listed are primary standards except for 3 Hour SO₂, which is a secondary standard. A secondary standard is the level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- ² Effective April 12, 2010, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 100 ppb, or 18µg/m³
- ³ The ABB has identified lead and vinyl chloride as "toxic air contaminants" with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants
- ⁴ To attain this standard, the 3-year average of the 99th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 75 ppb
- Source of effects: South Coast Air Quality Management District 2007b; California Environmental Protection Agency 2002; California Air Resources Board 2009; U.S. Environmental Protection Agency 2010; U.S. Environmental Protection Agency 2000; National Toxicology Program 2005a.
- Source of standards: California Air Resources Board 2010a.
- Source of properties and sources: U.S. Environmental Protection Agency 1999; U.S. Environmental Protection Agency 2003; U.S. Environmental Protection Agency 2011b; U.S. Environmental Protection Agency 2009a; National Toxicology Program 2005b.

TABLE 3
Meteorological Summary¹

Month	Temperature (°F)		Average Precipitation (inches)
	Average High	Average Low	
January	70.6	39.2	0.64
February	74.9	44.3	0.51
March	80.0	50.4	0.31
April	86.9	57.4	0.11
May	93.7	64.4	0.05
June	102.3	71.9	0.01
July	106.9	77.8	0.12
August	105.7	76.9	0.25
September	101.5	70.3	0.31
October	91.9	59.4	0.20
November	80.2	46.7	0.26
December	71.7	39.4	0.54
Annual Average	88.9	58.2	3.3

¹ Averages derived from measurements recorded between 1894 and 2013.
Source: Western Regional Climate Center 2014, Indio Fire Station COOP.

TABLE 4
Air Quality Monitoring Summary

Air Pollutant Location	Averaging Time	Item	2011	2012	2013
Carbon Monoxide from Coachella Valley 1 Station	1 Hour	Max 1-Hour (ppm)	0.0	0.0	0.0
		Days > State Standard (20 ppm)	0	0	0
		Days > National Standard (35 ppm)	0	0	0
	8 Hour	Max 8 Hour (ppm)	0.6	0.5	1.5
		Days > State Standard (9 ppm)	0	0	0
		Days > National Standard (9 ppm)	0	0	0
Ozone from Coachella Valley 1 Station	1 Hour	Max 1-Hour (ppm)	0.124	0.126	0.113
		Days > State Standard (0.09 ppm)	21	17	10
		Days > National Standard (0.075 ppm)	49	51	46
	8 Hour	Max 8 Hour (ppm)	0.098	0.1	0.104
		Days > State Standard (0.07 ppm)	69	76	82
		Days > National Standard (0.075 ppm)	49	51	46
Coarse Particles (PM10) from Coachella Valley 1 Station	24 Hour	Max 24-Hour ($\mu\text{g}/\text{m}^3$)	42.0	37.0	64.0
		Days > State Standard ($50 \mu\text{g}/\text{m}^3$)	0	0	3
		Days > National Standard ($150 \mu\text{g}/\text{m}^3$)	0	0	0
	Annual	Annual Average ($\mu\text{g}/\text{m}^3$)	18.5	16.4	20.6
		Exceeded > State Standard ($20 \mu\text{g}/\text{m}^3$)	NO	NO	YES
		Exceeded > National Standard ($150 \mu\text{g}/\text{m}^3$)	NO	NO	NO
Fine Particulates (PM2.5) from Coachella Valley 1 Station	24 Hour	Max 24-Hour ($\mu\text{g}/\text{m}^3$)	26.3	15.5	18.5
		Days > National Standard ($35 \mu\text{g}/\text{m}^3$)	0	0	0
		Days > National Standard ($15 \mu\text{g}/\text{m}^3$)	0	0	0
	Annual	Annual Average ($\mu\text{g}/\text{m}^3$)	6.1	6.5	6.5
		Exceeded > State Standard ($12 \mu\text{g}/\text{m}^3$)	NO	NO	NO
		Exceeded > National Standard ($15 \mu\text{g}/\text{m}^3$)	NO	NO	NO
Nitrogen Dioxide from Coachella Valley 1 Station	1 Hour	Max 1-Hour (ppm)	0.045	0.045	0.052
		Days > State Standard (0.18 ppm)	0	0	0
		Days > National Standard (0.14 ppm)	0	0	0
	Annual	Annual Average (ppm)	0.008	0.008	0.008
		Exceeded > State Standard (0.030 ppm)	NO	NO	NO
		Exceeded > National Standard (0.053 ppm)	NO	NO	NO
Sulfur Dioxide from Coachella Valley 1 Station	1 Hour	Max 1 Hour (ppm)	--	--	--
		Days > State Standard (0.04 ppm)	--	--	--
		Days > National Standard (0.14 ppm)	--	--	--
	Annual	Annual Average (ppm)	--	--	--
		Exceeded > State Standard (0.030 ppm)	--	--	--
		Exceeded > National Standard (0.030 ppm)	--	--	--

Source: EPA and ARB websites www.epa.gov/air/data.index.html and www.arb.ca.gov/adam/welcome.html

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

ARB = California Air Resource Board

EPA= Environmental Protection Agency

ppm = part per million

-- = Pollutant not monitored

TABLE 5
Attainment Status of Criteria Pollutants in the Coachella Valley Portion of the Salton Sea Air Basin

Pollutant	State Status	National Status
Ozone (1-hour)	Nonattainment	No Standard
Ozone (8-hour)	Nonattainment	Nonattainment
Carbon monoxide	Attainment	Attainment/Unclassified
Nitrogen dioxide (annual)	Unclassifiable/Attainment	Attainment
Nitrogen dioxide (1-hour)	Unclassifiable/Attainment	Attainment
Sulfur dioxide	Attainment	Attainment/Unclassified
PM ₁₀	Nonattainment	Nonattainment
PM _{2.5}	Attainment/Unclassified	Attainment/Unclassified

Source: SCAQMD 2012 AQMP

Notes: Nonattainment: any area that does not meet (or that contributes to ambient air quality in a nearby area that does not meet) the national primary or secondary ambient air quality standard for the pollutant.

Attainment: any area (other than an area identified in clause (i)) that meets the national primary or secondary ambient air quality standard for the pollutant.

Unclassifiable: any area that cannot be classified on the basis of available information as meeting or not meeting national primary or secondary ambient air quality standard for the pollutant.

TABLE 6
Description of Greenhouse Gases

Greenhouse Gas	Description and Physical Properties	Sources
Nitrous oxide	Nitrous oxide (N ₂ O), also known as laughing gas is a colorless gas. It has a lifetime of 114 years. Its global warming potential is 310.	Microbial processes in soil and water, fuel combustion, and industrial processes. In addition to agricultural sources, some industrial processes (nylon production, nitric acid production) also emit N ₂ O.
Methane	Methane (CH ₄) is a flammable gas and is the main component of natural gas. It has a lifetime of 12 years. Its global warming potential is 25.	A natural source of CH ₄ is from the decay of organic matter. Methane is extracted from geological deposits (natural gas fields). Other sources are from the decay of organic material in landfills, fermentation of manure, and cattle farming.
Carbon dioxide	Carbon dioxide (CO ₂) is an odorless, colorless, natural greenhouse gas. Carbon dioxide's global warming potential is 1. The concentration in 2005 was 379 parts per million (ppm), which is an increase of about 1.4 ppm per year since 1960.	Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood.
Chlorofluorocarbons	CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). They are gases formed synthetically by replacing all hydrogen atoms in methane or methane with chlorine and/or fluorine atoms. Global warming potentials range from 3,800 to 8,100.	Chlorofluorocarbons were 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 Montreal Protocol.
Hydrofluorocarbons	Hydrofluorocarbons (HFCs) are a group of greenhouse gases containing carbon, chlorine, and at least one hydrogen atom. Global warming potentials range from 140 to 11,700.	Hydrofluorocarbons are synthetic manmade chemicals used as a substitute for chlorofluorocarbons in applications such as automobile air conditioners and refrigerants.
Perfluorocarbons	Perfluorocarbons (PFCs) have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above the Earth's surface. They have a lifetime 10,000 to 50,000 years. They have a global warming potential range of 6,200 to 9,500.	Two main sources of perfluorocarbons are primary aluminum production and semiconductor manufacturing.
Sulfur hexafluoride	Sulfur hexafluoride (SF ₆) is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. It has a high global warming potential, 23,900.	This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Sources: Intergovernmental Panel on Climate Change 2007a and Intergovernmental Panel on Climate Change 2007b

TABLE 7
Construction Equipment Assumptions¹

Phase	Equipment	Number	Hours per day	Horsepower	Load Factor	Daily Disturbance Footprint (Acres) ²
Site Preparation	Rubber Tired Dozers	9	8	255	0.4	10.5
	Tractors/Loaders/Backhoes	12	8	97	0.37	
Grading of main site	Excavators	6	8	162	0.38	15
	Graders	3	8	174	0.41	
	Rubber Tired Dozers	3	8	255	0.4	
	Scrapers	6	8	361	0.48	
	Tractors/Loaders/Backhoes	6	8	97	0.37	
Building construction	Cranes	3	7	226	0.29	--
	Forklifts	9	8	89	0.2	
	Generator Sets	3	8	84	0.74	
	Tractors/Loaders/Backhoes	9	7	97	0.37	
	Welders	3	8	46	0.45	
Paving of parking lots and roads, road striping	Pavers	6	8	125	0.42	--
	Paving Equipment	6	8	130	0.36	
	Rollers	6	8	80	0.38	
Architectural Coating	Air Compressors	3	6	78	0.48	--

¹ Source: CalEEMod defaults x 3.

² Source: Calculation details for CalEEMod Appendix B

TABLE 8
Construction Trips Assumptions¹

Phase	Trips per day		Total # of Trips Haul	Trip Length (miles)		
	Worker	Vendor		Worker	Vendor	Haul
Site Preparation	53.0	0.0	0	11.0	5.4	20.0
Grading	60.0	0.0	0	11.0	5.4	20.0
Building	1637.0	509.0	0	11.0	5.4	20.0
Paving	45.0	0.0	0	11.0	5.4	20.0
Coating	327.0	0.0	0	11.0	5.4	20.0

¹ Worker fleet is light duty mix; vendor fleet is a heavy duty truck mix; hauling vehicle mix is heavy-heavy duty

TABLE 9
Trip Generation Rates¹

Land Use	Quantity	Units ²	Trip Generation Rate (trips/unit/day)		
			Weekday	Saturday	Sunday
Single Family	1,030.00	DU	9.52	1.68	1.68
Condo/Townhome Residential	263.00	DU	5.81	5.81	5.81
Apartment Residential	347.00	DU	6.65	6.65	6.65
Shopping Center	281.40	TSF	42.70	42.70	42.70
City Park	746.000	AC	1.89	1.89	1.89

¹ Trip rates per Traffic Study (RK Engineering). Shopping Center trip rate was adjusted to reflect 30% pass-by trip

² TSF = thousand square feet, DU = dwelling units, AC = acres

TABLE 10
Operational Vehicle Trip Assumptions¹

Land Use	Trip Length (miles) Residential			Percent of Trips (%) Residential		
	H-W	H-S	H-W	H-W	H-S	H-O
Apartments	11.0	3.5	4.5	40.2	19.2	40.6
Condos/Townhomes	11.0	3.5	4.5	40.2	19.2	40.6
Single Family	11.0	3.5	4.5	40.2	19.2	40.6

Land Use	Trip Length (miles) Non-Residential			Percent of Trips (%) Non-Residential		
	C-C	C-W	C-NW	C-C	C-W	C-NW
Shopping Center	4.2	12.5	5.4	64.7	16.3	19.0
City Park	4.2	12.5	5.4	48.0	33.0	19.0

¹ CalEEMod defaults.

TABLE 11
Regional Significance - Construction Emissions

Unmitigated Construction Emissions^{1*}						
Activity	VOC	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Site Preparation	16.01	170.90	130.77	0.12	31.73	20.36
Grading	20.59	237.40	155.77	0.19	19.43	14.55
Building Construction	21.66	128.54	199.08	0.33	22.95	10.68
Architectural Coating	84.3	5.43	16.12	0.04	3.04	1.02
Paving	4.23	38.10	44.53	0.07	2.37	1.94
Maximum ¹	88.49	237.40	199.08	0.33	31.73	20.36
SCAQMD Threshold	75	100	550	150	150	55
Exceeds Threshold (?)	Yes	Yes	Yes	No	No	No

Mitigated Construction Emissions²						
Activity	VOC	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Site Preparation	1.66	5.18	66.60	0.12	22.50	11.86
Grading	2.53	8.13	107.59	0.19	8.07	4.11
Building Construction	11.32	50.76	199.89	0.31	17.08	5.17
Architectural Coating	17.8	1.22	14.29	0.04	2.76	0.74
Paving	1.33	2.98	51.99	0.07	0.40	0.12
Maximum ¹	19.16	50.76	199.89	0.31	22.50	11.86
SCAQMD Threshold	75	100	550	150	150	55
Exceeds Threshold (?)	No	No	No	No	No	No

¹ Construction activities are not expected to overlap except during paving and painting; therefore, the maximum emissions represent the largest of each activity alone except for painting and paving which are combined. It is anticipated that the emissions would exceed the thresholds therefore mitigation is required.

* For site prep and grading mitigated on-site values for fugitive dust were used per SCAQMD rules 403 and 403.1

² Construction activities are not expected to overlap except during paving and painting; therefore, the maximum emissions represent the largest of each activity alone except for painting and paving which are combined. It is anticipated that the emissions would not exceed the thresholds with the incorporation of mitigation that restricts VOC paint levels to 10g/L or less, the use of all construction equipment with Tier 4 final engines, Level 3 DPF and use oxidation catalysts that have 20% or better reduction.

TABLE 12
Construction Localized Significance

LST Pollutants ¹	CO (lbs/day)	NOx (lbs/day)	PM ₁₀ (lbs/day)	PM _{2.5} (lbs/day)
On-site Emissions	199.89	50.76	22.50	11.86
SCAQMD Construction Threshold ²	5,331	425	67	19
Exceeds Threshold (?)	No	No	No	No

¹ Reference LST thresholds are from 2006-2008 SCAQMD Mass rate Localized Significant Thresholds for construction and operation Tables C-1 through C-6 for a disturbance area of 5 acres and at a receptor distance of 25 meters.

² Reference: Source Receptor Area 30 Thresholds for 5 acres at 50 meters.

Note: The emission values above correspond to a disturbance area of 10.5 acres or more. Mitigation measure MM-1 will ensure that the project's disturbance is limited to 5 acres and will reduce impacts.

TABLE 13
Regional Significance - Operational Emissions¹

Unmitigated (lbs/day)						
Activity	VOC	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Area Sources	139.34	1.56	135.96	0.01	6.88	6.81
Energy Sources	1.35	11.53	4.98	0.07	0.93	0.93
Mobile Sources	59.93	122.97	611.92	1.38	91.33	26.14
Total: Area Sources + Energy + Mobile	200.62	136.06	752.86	1.46	99.14	33.88
SCAQMD Threshold ³	75	100	550	150	150	55
Exceeds Threshold (?)	Yes	Yes	Yes	No	No	No

Mitigated (lbs/day)²						
Activity	VOC	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
Area Sources	115.73	1.56	135.96	0.01	6.88	6.81
Energy Sources	1.07	9.14	3.95	0.06	0.74	0.74
Mobile Sources	58.65	112.91	582.96	1.22	80.58	23.08
Total: Area Sources + Energy + Mobile	175.45	123.62	722.87	1.29	88.20	30.63
SCAQMD Threshold	75	100	550	150	150	55
Exceeds Threshold (?)	Yes	Yes	Yes	No	No	No

¹ The operational emission levels for the entire project are detailed above.

² See section 1.4 of the report and Appendix A for the mitigation measures.

³ SCAQMD thresholds in Salton Sea Air Basin are the same for construction and operation.

TABLE 14
Unmitigated Project Greenhouse Gas Emissions During Operation

Emission Source	Emissions (MTCO ₂ e) ¹
Area Source	3,641.21
Energy Source	6,833.47
Mobile Source	17,105.58
Waste	812.27
Water	944.37
<i>Construction (averaged over 30 years)</i> <i>(averaged over 30 years)</i>	653.85
Total Annual Emissions²	29,990.75
SCAQMD Threshold	3,000.00
Exceeds Threshold (?)	Yes

¹ MTCO₂e = metric tons of carbon dioxide equivalents

² Reduction from sequestration from the planting of 2,406 new trees on-site. 1,703 MTCO₂e/20 (sequestration lifetime of trees).

TABLE 15
Year 2020 Project Greenhouse Gas Emissions with Mitigation and Regulations¹

Emission Source	Emissions (MTCO ₂ e) ¹
Area Source	3,641.21
Energy Source	5,953.43
Mobile Source	15,541.76
Waste	203.07
Water	742.24
Construction (averaged over 30 years)	653.85
Sequestrian from 2,406 new on-site trees ³	-85.17
Total Annual Emissions²	26,650.38
SCAQMD 2020 target for service population (SP) (which includes residents and employees): 4.8 MTCO ₂ e/SP/year	4.8 MTCO ₂ e/SP/year
Coachella City CAP GHG emission target (15% below 2010 emissions by 2020)	7.0 MTCO ₂ e/SP/year
Project Service Population? ⁴	8,155.00
Project's MTCO₂e/SP	3.27
Exceeds Threshold (?)	No

¹ CalEEMod Version 2013.2.2. Emission for Year 2020 per Coachella City CAP methodology.

² MTCO₂e = metric tons of carbon dioxide equivalents

³ Reduction from sequestration from the planting of 2,406 new trees on-site. 1,703 MTCO₂e/20 (sequestration lifetime of trees).

4. Service population on the City of Coachella occupation rate of 4.63 persons per household (source:<http://www/dof.ca.gov/research/demographic/reports/estimates/e-5/2011-20/view.php> , the construction of 1,640 homes with the addition of 562 employees, based on the Riverside County commercial employment rate of 500 square feet per employee.

TABLE 16
Project Consistency with CARB Scoping Measures¹

Scoping Plan Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
California Light-Duty Vehicle Greenhouse Gas Standards – Implement adopted standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy
Energy Efficiency – Maximize energy efficiency building and appliance standards; pursue additional efficiency including new technologies, policy, and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California.	Consistent. The project will be compliant with the current Title 24 standards. 2013 Title 24 Standards are at least 30 percent more efficient than 2008 Title 24 standards (25 percent for residential standards) for energy efficiency.
Low Carbon Fuel Standard – Develop and adopt the Low Carbon Fuel Standard.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Vehicle Efficiency Measures – Implement light-duty vehicle efficiency measures.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Medium/Heavy-Duty Vehicles – Adopt medium and heavy-duty vehicle efficiency measures.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Green Building Strategy – Expand the use of green building practices to reduce the carbon footprint of California’s new and existing inventory of buildings.	Consistent. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that are mandatory in the 2010 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The project will be subject to these mandatory standards.
High Global Warming Potential Gases – Adopt measures to reduce high global warming potential gases.	Consistent. CARB identified five measures that reduce HFC emissions from vehicular and commercial refrigeration systems; vehicles that access the project that are required to comply with the measures will comply with the strategy.
Recycling and Waste – Reduce methane emissions at landfills. Increase waste diversion, composting, and commercial recycling. Move toward zero-waste.	Consistent. The state is currently developing a regulation to reduce methane emissions from municipal solid waste landfills. The project will be required to comply with City programs, such as City’s recycling and waste reduction program, which initially comply, with the 50 percent reduction required in AB 939, then the 75% reduction by 2020 required in AB 341
Water – Continue efficiency programs and use cleaner energy sources to move and treat water.	Consistent. The project will comply with all applicable City ordinances and CAL Green requirements.

¹ Source: CARB Scoping Plan (2008)

Appendix A

Emission Calculations Output
(CalEEMod)

Vista Del Agua
Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
 To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Trips and VMT -

Grading - - 275.38 acres per site plan

Architectural Coating - SCAQMD limits paints to 50g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF (w/30% reduction in trips from pass-bys) shopping ctr, 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 50g/L paint per SCAQMD rule 1113.

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - @0% reduction in water use inide and out per CalGreen

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	42.94	29.89

tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015	20.5869	237.4035	155.7745	0.1912	56.9061	11.4098	66.1738	30.1541	10.4970	38.6804	0.0000	19,962.97 47	19,962.97 47	5.8354	0.0000	20,085.51 72
2016	21.6611	224.6782	199.0842	0.3267	19.7851	10.7558	30.5409	10.1952	9.8954	20.0906	0.0000	29,710.03 70	29,710.03 70	5.8289	0.0000	29,832.44 43
2017	19.5515	117.8778	184.7379	0.3265	16.1795	6.1160	22.2955	4.3386	5.7295	10.0681	0.0000	28,953.11 01	28,953.11 01	2.6054	0.0000	29,007.82 29
2018	17.3503	104.9622	173.2459	0.3262	16.1792	5.2123	21.3915	4.3385	4.8858	9.2243	0.0000	28,235.57 97	28,235.57 97	2.5292	0.0000	28,288.69 18
2019	15.7453	95.0800	164.5558	0.3260	16.1790	4.5361	20.7151	4.3384	4.2518	8.5902	0.0000	27,543.81 82	27,543.81 82	2.4647	0.0000	27,595.57 77
2020	14.1581	85.0090	154.5572	0.3258	16.1787	3.9592	20.1379	4.3383	3.7110	8.0493	0.0000	26,762.42 56	26,762.42 56	2.4096	0.0000	26,813.02 76
2021	84.2621	75.3764	148.1548	0.3260	16.1786	3.4132	19.5919	4.3383	3.1989	7.5372	0.0000	26,580.23 95	26,580.23 95	2.3736	0.0000	26,630.08 45
2022	84.1702	5.0217	15.4998	0.0412	2.7359	0.2627	2.9987	0.7257	0.2615	0.9872	0.0000	3,029.562 8	3,029.562 8	0.1483	0.0000	3,032.677 2
Total	277.4855	945.4087	1,195.610 1	2.1895	160.3221	45.6652	203.8452	62.7671	42.4307	103.2272	0.0000	190,777.7 477	190,777.7 477	24.1950	0.0000	191,285.8 433

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	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939
Mobile	59.9283	116.0112	569.1914	1.3779	88.6583	2.6599	91.3182	23.6752	2.4512	26.1264		104,811.1790	104,811.1790	3.0963		104,876.2010
Total	200.6155	129.1013	710.1338	1.4586	88.6583	10.4678	99.1261	23.6752	10.1946	33.8698	0.0000	216,518.7410	216,518.7410	5.4679	2.0435	217,267.0532

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	115.7268	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
Mobile	58.6521	106.7094	533.3540	1.2235	78.1966	2.3704	80.5670	20.8815	2.1846	23.0661		93,064.1937	93,064.1937	2.7779		93,122.5291
Total	175.4477	117.4138	673.2654	1.2890	78.1966	9.9856	88.1822	20.8815	9.7352	30.6167	0.0000	201,729.2375	201,729.2375	5.0912	1.9877	202,452.3469

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.55	9.05	5.19	11.63	11.80	4.61	11.04	11.80	4.51	9.60	0.00	6.83	6.83	6.89	2.73	6.82

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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					56.4627	0.0000	56.4627	30.0365	0.0000	30.0365			0.0000			0.0000
Off-Road	15.7828	170.6690	127.8953	0.1174		9.2648	9.2648		8.5237	8.5237		12,335.23 31	12,335.23 31	3.6826		12,412.56 73
Total	15.7828	170.6690	127.8953	0.1174	56.4627	9.2648	65.7275	30.0365	8.5237	38.5602		12,335.23 31	12,335.23 31	3.6826		12,412.56 73

3.2 Site Preparation - 2015

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	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231			445.9007
Total	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231			445.9007

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					22.0204	0.0000	22.0204	11.7142	0.0000	11.7142			0.0000				0.0000
Off-Road	1.4272	4.9476	63.7245	0.1174		0.0285	0.0285		0.0285	0.0285	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673
Total	1.4272	4.9476	63.7245	0.1174	22.0204	0.0285	22.0490	11.7142	0.0285	11.7428	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673

3.2 Site Preparation - 2015

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	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231			445.9007
Total	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231			445.9007

3.3 Grading - 2015

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000				0.0000
Off-Road	20.3254	237.1400	152.5199	0.1853		11.4065	11.4065		10.4940	10.4940		19,458.7299	19,458.7299	5.8092			19,580.7240
Total	20.3254	237.1400	152.5199	0.1853	19.2831	11.4065	30.6896	10.0621	10.4940	20.5561		19,458.7299	19,458.7299	5.8092			19,580.7240

3.3 Grading - 2015

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	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261		504.7932
Total	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261		504.7932

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000			0.0000
Off-Road	2.2692	7.8667	104.3362	0.1853		0.0454	0.0454		0.0454	0.0454	0.0000	19,458.7299	19,458.7299	5.8092		19,580.7240
Total	2.2692	7.8667	104.3362	0.1853	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,458.7299	19,458.7299	5.8092		19,580.7240

3.3 Grading - 2015

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	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261			504.7932
Total	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261			504.7932

3.3 Grading - 2016

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000				0.0000
Off-Road	19.4384	224.4412	147.4122	0.1851		10.7527	10.7527		9.8925	9.8925		19,244.9422	19,244.9422	5.8050			19,366.8463
Total	19.4384	224.4412	147.4122	0.1851	19.2831	10.7527	30.0358	10.0621	9.8925	19.9546		19,244.9422	19,244.9422	5.8050			19,366.8463

3.3 Grading - 2016

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	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798
Total	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000			0.0000
Off-Road	2.2692	7.8667	104.3362	0.1851		0.0454	0.0454		0.0454	0.0454	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462
Total	2.2692	7.8667	104.3362	0.1851	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462

3.3 Grading - 2016

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	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798
Total	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798

3.4 Building Construction - 2016

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	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861		8,049.5671
Total	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861		8,049.5671

3.4 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.0249	36.5561	63.6945	0.0848	2.4819	0.7855	3.2675	0.7053	0.7223	1.4276		8,456.7579	8,456.7579	0.0570			8,457.9538
Worker	6.4175	6.4654	79.8698	0.1614	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		13,245.4200	13,245.4200	0.6537			13,259.1475
Total	11.4424	43.0215	143.5643	0.2463	16.1782	0.8706	17.0488	4.3381	0.8006	5.1387		21,702.1778	21,702.1778	0.7106			21,717.1014

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670

3.4 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.0249	36.5561	63.6945	0.0848	2.4819	0.7855	3.2675	0.7053	0.7223	1.4276		8,456.7579	8,456.7579	0.0570			8,457.9538
Worker	6.4175	6.4654	79.8698	0.1614	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		13,245.4200	13,245.4200	0.6537			13,259.1475
Total	11.4424	43.0215	143.5643	0.2463	16.1782	0.8706	17.0488	4.3381	0.8006	5.1387		21,702.1778	21,702.1778	0.7106			21,717.1014

3.4 Building Construction - 2017

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	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471
Total	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.4799	32.8249	58.4135	0.0847	2.4832	0.6887	3.1719	0.7058	0.6334	1.3392		8,319.3056	8,319.3056	0.0535			8,320.4285
Worker	5.7645	5.8359	71.9370	0.1614	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		12,714.3885	12,714.3885	0.6028			12,727.0473
Total	10.2444	38.6608	130.3505	0.2461	16.1795	0.7723	16.9518	4.3386	0.7105	5.0492		21,033.6941	21,033.6941	0.6563			21,047.4758

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.4799	32.8249	58.4135	0.0847	2.4832	0.6887	3.1719	0.7058	0.6334	1.3392		8,319.3056	8,319.3056	0.0535			8,320.4285
Worker	5.7645	5.8359	71.9370	0.1614	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		12,714.3885	12,714.3885	0.6028			12,727.0473
Total	10.2444	38.6608	130.3505	0.2461	16.1795	0.7723	16.9518	4.3386	0.7105	5.0492		21,033.6941	21,033.6941	0.6563			21,047.4758

3.4 Building Construction - 2018

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	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551
Total	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.1442	29.8714	55.4105	0.0845	2.4829	0.6464	3.1293	0.7057	0.5945	1.3001		8,176.8237	8,176.8237	0.0524			8,177.9236
Worker	5.2001	5.3083	65.2374	0.1613	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		12,228.9392	12,228.9392	0.5607			12,240.7131
Total	9.3442	35.1797	120.6479	0.2458	16.1792	0.7295	16.9087	4.3385	0.6714	5.0099		20,405.7629	20,405.7629	0.6130			20,418.6367

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.1442	29.8714	55.4105	0.0845	2.4829	0.6464	3.1293	0.7057	0.5945	1.3001		8,176.8237	8,176.8237	0.0524			8,177.9236
Worker	5.2001	5.3083	65.2374	0.1613	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		12,228.9392	12,228.9392	0.5607			12,240.7131
Total	9.3442	35.1797	120.6479	0.2458	16.1792	0.7295	16.9087	4.3385	0.6714	5.0099		20,405.7629	20,405.7629	0.6130			20,418.6367

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437
Total	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.9075	27.3129	52.7821	0.0843	2.4827	0.5969	3.0796	0.7056	0.5490	1.2545		8,033.0993	8,033.0993	0.0514			8,034.1791
Worker	4.7829	4.8720	60.4127	0.1613	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		11,768.4336	11,768.4336	0.5296			11,779.5550
Total	8.6904	32.1849	113.1947	0.2456	16.1790	0.6810	16.8600	4.3384	0.6270	4.9654		19,801.5329	19,801.5329	0.5810			19,813.7340

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.9075	27.3129	52.7821	0.0843	2.4827	0.5969	3.0796	0.7056	0.5490	1.2545		8,033.0993	8,033.0993	0.0514			8,034.1791
Worker	4.7829	4.8720	60.4127	0.1613	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		11,768.4336	11,768.4336	0.5296			11,779.5550
Total	8.6904	32.1849	113.1947	0.2456	16.1790	0.6810	16.8600	4.3384	0.6270	4.9654		19,801.5329	19,801.5329	0.5810			19,813.7340

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641
Total	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.3813	23.2392	47.9433	0.0841	2.4824	0.5357	3.0181	0.7054	0.4928	1.1982		7,847.2556	7,847.2556	0.0493			7,848.2899
Worker	4.4431	4.5180	56.1886	0.1613	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		11,287.7303	11,287.7303	0.5021			11,298.2737
Total	7.8244	27.7572	104.1319	0.2454	16.1787	0.6207	16.7993	4.3383	0.5716	4.9099		19,134.9859	19,134.9859	0.5513			19,146.5635

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.4397	7,627.4397	1.8583			7,666.4641
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.4397	7,627.4397	1.8583			7,666.4641

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.3813	23.2392	47.9433	0.0841	2.4824	0.5357	3.0181	0.7054	0.4928	1.1982		7,847.2556	7,847.2556	0.0493			7,848.2899
Worker	4.4431	4.5180	56.1886	0.1613	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		11,287.7303	11,287.7303	0.5021			11,298.2737
Total	7.8244	27.7572	104.1319	0.2454	16.1787	0.6207	16.7993	4.3383	0.5716	4.9099		19,134.9859	19,134.9859	0.5513			19,146.5635

3.4 Building Construction - 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						
Off-Road	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.3452	7,628.3452	1.8378			7,666.9385
Total	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.3452	7,628.3452	1.8378			7,666.9385

3.4 Building Construction - 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	3.1237	19.1231	45.1537	0.0840	2.4823	0.4615	2.9438	0.7054	0.4246	1.1300		7,837.3740	7,837.3740	0.0498			7,838.4196
Worker	4.1803	4.2326	53.3881	0.1616	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		11,114.5203	11,114.5203	0.4860			11,124.7265
Total	7.3039	23.3557	98.5419	0.2456	16.1786	0.5486	16.7272	4.3383	0.5054	4.8436		18,951.8943	18,951.8943	0.5358			18,963.1460

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385

3.4 Building Construction - 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	3.1237	19.1231	45.1537	0.0840	2.4823	0.4615	2.9438	0.7054	0.4246	1.1300		7,837.3740	7,837.3740	0.0498			7,838.4196
Worker	4.1803	4.2326	53.3881	0.1616	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		11,114.5203	11,114.5203	0.4860			11,124.7265
Total	7.3039	23.3557	98.5419	0.2456	16.1786	0.5486	16.7272	4.3383	0.5054	4.8436		18,951.8943	18,951.8943	0.5358			18,963.1460

3.5 Paving - 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						
Off-Road	3.6924	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	4.1125	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111
Total	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111

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	0.8235	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.2437	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111
Total	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111

3.6 Architectural Coating - 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						
Archit. Coating	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6567	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610
Total	83.4271	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610

3.6 Architectural Coating - 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	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0
Total	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0

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	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610
Total	82.8595	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610

3.6 Architectural Coating - 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	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0
Total	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0

3.6 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	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6136	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986
Total	83.3840	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986

3.6 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	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786
Total	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786

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	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986
Total	82.8595	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986

3.6 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	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786
Total	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	58.6521	106.7094	533.3540	1.2235	78.1966	2.3704	80.5670	20.8815	2.1846	23.0661		93,064.1937	93,064.1937	2.7779		93,122.5291
Unmitigated	59.9283	116.0112	569.1914	1.3779	88.6583	2.6599	91.3182	23.6752	2.4512	26.1264		104,811.1790	104,811.1790	3.0963		104,876.2010

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479334	0.061620	0.171239	0.155613	0.034509	0.006445	0.010737	0.070109	0.001118	0.001845	0.004327	0.000443	0.002660

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
NaturalGas Unmitigated	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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 Low Rise	5488.88	0.0592	0.5058	0.2153	3.2300e-003		0.0409	0.0409		0.0409	0.0409		645.7506	645.7506	0.0124	0.0118	649.6805
Apartments Low Rise	7556.61	0.0815	0.6964	0.2963	4.4500e-003		0.0563	0.0563		0.0563	0.0563		889.0128	889.0128	0.0170	0.0163	894.4232
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
Condo/Townhouse	14847.3	0.1601	1.3683	0.5823	8.7300e-003		0.1106	0.1106		0.1106	0.1106		1,746.7379	1,746.7379	0.0335	0.0320	1,757.3683
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
Parking Lot	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
Regional Shopping Center	1216.19	0.0131	0.1192	0.1002	7.2000e-004		9.0600e-003	9.0600e-003		9.0600e-003	9.0600e-003		143.0810	143.0810	2.7400e-003	2.6200e-003	143.9518
Regional Shopping Center	572.436	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.3454	67.3454	1.2900e-003	1.2300e-003	67.7553
Single Family Housing	23128	0.2494	2.1314	0.9070	0.0136		0.1723	0.1723		0.1723	0.1723		2,720.9444	2,720.9444	0.0522	0.0499	2,737.5036
Single Family Housing	24053.1	0.2594	2.2167	0.9433	0.0142		0.1792	0.1792		0.1792	0.1792		2,829.7822	2,829.7822	0.0542	0.0519	2,847.0038
Single Family Housing	42555.6	0.4589	3.9218	1.6689	0.0250		0.3171	0.3171		0.3171	0.3171		5,006.5377	5,006.5377	0.0960	0.0918	5,037.0067
Single Family Housing	5550.73	0.0599	0.5115	0.2177	3.2700e-003		0.0414	0.0414		0.0414	0.0414		653.0267	653.0267	0.0125	0.0120	657.0009
Total		1.3477	11.5273	4.9779	0.0735		0.9312	0.9312		0.9312	0.9312		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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					
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
Condo/Townhouse	11.667	0.1258	1.0752	0.4575	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,372.5928	1,372.5928	0.0263	0.0252	1,380.9461
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
Parking Lot	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
Regional Shopping Center	0.447833	4.8300e-003	0.0439	0.0369	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003		52.6862	52.6862	1.0100e-003	9.7000e-004	53.0068
Regional Shopping Center	0.951458	0.0103	0.0933	0.0784	5.6000e-004		7.0900e-003	7.0900e-003		7.0900e-003	7.0900e-003		111.9362	111.9362	2.1500e-003	2.0500e-003	112.6174
Single Family Housing	18.3649	0.1981	1.6925	0.7202	0.0108		0.1368	0.1368		0.1368	0.1368		2,160.5741	2,160.5741	0.0414	0.0396	2,173.7230
Single Family Housing	19.0995	0.2060	1.7602	0.7490	0.0112		0.1423	0.1423		0.1423	0.1423		2,246.9971	2,246.9971	0.0431	0.0412	2,260.6720
Single Family Housing	33.7914	0.3644	3.1141	1.3252	0.0199		0.2518	0.2518		0.2518	0.2518		3,975.4564	3,975.4564	0.0762	0.0729	3,999.6504
Single Family Housing	4.40757	0.0475	0.4062	0.1729	2.5900e-003		0.0328	0.0328		0.0328	0.0328		518.5378	518.5378	9.9400e-003	9.5100e-003	521.6935
Apartments Low Rise	4.36646	0.0471	0.4024	0.1712	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7012	513.7012	9.8500e-003	9.4200e-003	516.8275
Apartments Low Rise	6.01136	0.0648	0.5540	0.2357	3.5400e-003		0.0448	0.0448		0.0448	0.0448		707.2187	707.2187	0.0136	0.0130	711.5228
Total		1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	115.7268	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Unmitigated	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	30.0756					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	139.3395	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	6.4629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	115.7268	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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
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10.0 Vegetation

**Vista Del Agua PAINT MIT 10g/L
Riverside-Salton Sea County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - For construction and operational architectural coating mitigation limiting paints to 10g/L VOC

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Trips and VMT -

Grading - - 275.38 acres per site plan

Architectural Coating - limits paints to 10g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF (w/30% reduction in trips from pass-bys) shopping ctr, 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 10g/L paint

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - 20% reduction in water use inide and out per CalGreen

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	10
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81

tblVehicleTrips	WD_TR	42.94	29.89
tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015	20.5869	237.4035	155.7745	0.1912	56.9061	11.4098	66.1738	30.1541	10.4970	38.6804	0.0000	19,962.97 47	19,962.97 47	5.8354	0.0000	20,085.51 72
2016	21.6611	224.6782	199.0842	0.3267	19.7851	10.7558	30.5409	10.1952	9.8954	20.0906	0.0000	29,710.03 70	29,710.03 70	5.8289	0.0000	29,832.44 43
2017	19.5515	117.8778	184.7379	0.3265	16.1795	6.1160	22.2955	4.3386	5.7295	10.0681	0.0000	28,953.11 01	28,953.11 01	2.6054	0.0000	29,007.82 29
2018	17.3503	104.9622	173.2459	0.3262	16.1792	5.2123	21.3915	4.3385	4.8858	9.2243	0.0000	28,235.57 97	28,235.57 97	2.5292	0.0000	28,288.69 18
2019	15.7453	95.0800	164.5558	0.3260	16.1790	4.5361	20.7151	4.3384	4.2518	8.5902	0.0000	27,543.81 82	27,543.81 82	2.4647	0.0000	27,595.57 77
2020	14.1581	85.0090	154.5572	0.3258	16.1787	3.9592	20.1379	4.3383	3.7110	8.0493	0.0000	26,762.42 56	26,762.42 56	2.4096	0.0000	26,813.02 76
2021	18.0458	75.3764	148.1548	0.3260	16.1786	3.4132	19.5919	4.3383	3.1989	7.5372	0.0000	26,580.23 95	26,580.23 95	2.3736	0.0000	26,630.08 45
2022	17.9539	5.0217	15.4998	0.0412	2.7359	0.2627	2.9987	0.7257	0.2615	0.9872	0.0000	3,029.562 8	3,029.562 8	0.1483	0.0000	3,032.677 2
Total	145.0529	945.4087	1,195.610 1	2.1895	160.3221	45.6652	203.8452	62.7671	42.4307	103.2272	0.0000	190,777.7 477	190,777.7 477	24.1950	0.0000	191,285.8 433

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	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939
Mobile	59.9283	116.0112	569.1914	1.3779	88.6583	2.6599	91.3182	23.6752	2.4512	26.1264		104,811.1790	104,811.1790	3.0963		104,876.2010
Total	200.6155	129.1013	710.1338	1.4586	88.6583	10.4678	99.1261	23.6752	10.1946	33.8698	0.0000	216,518.7410	216,518.7410	5.4679	2.0435	217,267.0532

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	110.5565	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
Mobile	58.6521	106.7094	533.3540	1.2235	78.1966	2.3704	80.5670	20.8815	2.1846	23.0661		93,064.1937	93,064.1937	2.7779		93,122.5291
Total	170.2774	117.4138	673.2654	1.2890	78.1966	9.9856	88.1822	20.8815	9.7352	30.6167	0.0000	201,729.2375	201,729.2375	5.0912	1.9877	202,452.3469

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.12	9.05	5.19	11.63	11.80	4.61	11.04	11.80	4.51	9.60	0.00	6.83	6.83	6.89	2.73	6.82

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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					56.4627	0.0000	56.4627	30.0365	0.0000	30.0365			0.0000			0.0000
Off-Road	15.7828	170.6690	127.8953	0.1174		9.2648	9.2648		8.5237	8.5237		12,335.23 31	12,335.23 31	3.6826		12,412.56 73
Total	15.7828	170.6690	127.8953	0.1174	56.4627	9.2648	65.7275	30.0365	8.5237	38.5602		12,335.23 31	12,335.23 31	3.6826		12,412.56 73

3.2 Site Preparation - 2015

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	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231			445.9007
Total	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231			445.9007

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					22.0204	0.0000	22.0204	11.7142	0.0000	11.7142			0.0000				0.0000
Off-Road	1.4272	4.9476	63.7245	0.1174		0.0285	0.0285		0.0285	0.0285	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673
Total	1.4272	4.9476	63.7245	0.1174	22.0204	0.0285	22.0490	11.7142	0.0285	11.7428	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673

3.2 Site Preparation - 2015

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	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231		445.9007
Total	0.2310	0.2328	2.8749	5.2300e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		445.4163	445.4163	0.0231		445.9007

3.3 Grading - 2015

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000			0.0000
Off-Road	20.3254	237.1400	152.5199	0.1853		11.4065	11.4065		10.4940	10.4940		19,458.7299	19,458.7299	5.8092		19,580.7240
Total	20.3254	237.1400	152.5199	0.1853	19.2831	11.4065	30.6896	10.0621	10.4940	20.5561		19,458.7299	19,458.7299	5.8092		19,580.7240

3.3 Grading - 2015

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	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261			504.7932
Total	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261			504.7932

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000				0.0000
Off-Road	2.2692	7.8667	104.3362	0.1853		0.0454	0.0454		0.0454	0.0454	0.0000	19,458.7299	19,458.7299	5.8092			19,580.7240
Total	2.2692	7.8667	104.3362	0.1853	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,458.7299	19,458.7299	5.8092			19,580.7240

3.3 Grading - 2015

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	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261			504.7932
Total	0.2615	0.2635	3.2546	5.9200e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		504.2448	504.2448	0.0261			504.7932

3.3 Grading - 2016

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000				0.0000
Off-Road	19.4384	224.4412	147.4122	0.1851		10.7527	10.7527		9.8925	9.8925		19,244.9422	19,244.9422	5.8050			19,366.8463
Total	19.4384	224.4412	147.4122	0.1851	19.2831	10.7527	30.0358	10.0621	9.8925	19.9546		19,244.9422	19,244.9422	5.8050			19,366.8463

3.3 Grading - 2016

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	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798
Total	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000			0.0000
Off-Road	2.2692	7.8667	104.3362	0.1851		0.0454	0.0454		0.0454	0.0454	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462
Total	2.2692	7.8667	104.3362	0.1851	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462

3.3 Grading - 2016

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	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798
Total	0.2352	0.2370	2.9274	5.9200e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		485.4766	485.4766	0.0240		485.9798

3.4 Building Construction - 2016

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	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861		8,049.5671
Total	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861		8,049.5671

3.4 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.0249	36.5561	63.6945	0.0848	2.4819	0.7855	3.2675	0.7053	0.7223	1.4276		8,456.7579	8,456.7579	0.0570			8,457.9538
Worker	6.4175	6.4654	79.8698	0.1614	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		13,245.4200	13,245.4200	0.6537			13,259.1475
Total	11.4424	43.0215	143.5643	0.2463	16.1782	0.8706	17.0488	4.3381	0.8006	5.1387		21,702.1778	21,702.1778	0.7106			21,717.1014

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670

3.4 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.0249	36.5561	63.6945	0.0848	2.4819	0.7855	3.2675	0.7053	0.7223	1.4276		8,456.7579	8,456.7579	0.0570			8,457.9538
Worker	6.4175	6.4654	79.8698	0.1614	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		13,245.4200	13,245.4200	0.6537			13,259.1475
Total	11.4424	43.0215	143.5643	0.2463	16.1782	0.8706	17.0488	4.3381	0.8006	5.1387		21,702.1778	21,702.1778	0.7106			21,717.1014

3.4 Building Construction - 2017

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	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471
Total	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.4799	32.8249	58.4135	0.0847	2.4832	0.6887	3.1719	0.7058	0.6334	1.3392		8,319.3056	8,319.3056	0.0535			8,320.4285
Worker	5.7645	5.8359	71.9370	0.1614	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		12,714.3885	12,714.3885	0.6028			12,727.0473
Total	10.2444	38.6608	130.3505	0.2461	16.1795	0.7723	16.9518	4.3386	0.7105	5.0492		21,033.6941	21,033.6941	0.6563			21,047.4758

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.4799	32.8249	58.4135	0.0847	2.4832	0.6887	3.1719	0.7058	0.6334	1.3392		8,319.3056	8,319.3056	0.0535			8,320.4285
Worker	5.7645	5.8359	71.9370	0.1614	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		12,714.3885	12,714.3885	0.6028			12,727.0473
Total	10.2444	38.6608	130.3505	0.2461	16.1795	0.7723	16.9518	4.3386	0.7105	5.0492		21,033.6941	21,033.6941	0.6563			21,047.4758

3.4 Building Construction - 2018

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	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551
Total	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.1442	29.8714	55.4105	0.0845	2.4829	0.6464	3.1293	0.7057	0.5945	1.3001		8,176.8237	8,176.8237	0.0524			8,177.9236
Worker	5.2001	5.3083	65.2374	0.1613	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		12,228.9392	12,228.9392	0.5607			12,240.7131
Total	9.3442	35.1797	120.6479	0.2458	16.1792	0.7295	16.9087	4.3385	0.6714	5.0099		20,405.7629	20,405.7629	0.6130			20,418.6367

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.1442	29.8714	55.4105	0.0845	2.4829	0.6464	3.1293	0.7057	0.5945	1.3001		8,176.8237	8,176.8237	0.0524			8,177.9236
Worker	5.2001	5.3083	65.2374	0.1613	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		12,228.9392	12,228.9392	0.5607			12,240.7131
Total	9.3442	35.1797	120.6479	0.2458	16.1792	0.7295	16.9087	4.3385	0.6714	5.0099		20,405.7629	20,405.7629	0.6130			20,418.6367

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437
Total	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.9075	27.3129	52.7821	0.0843	2.4827	0.5969	3.0796	0.7056	0.5490	1.2545		8,033.0993	8,033.0993	0.0514			8,034.1791
Worker	4.7829	4.8720	60.4127	0.1613	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		11,768.4336	11,768.4336	0.5296			11,779.5550
Total	8.6904	32.1849	113.1947	0.2456	16.1790	0.6810	16.8600	4.3384	0.6270	4.9654		19,801.5329	19,801.5329	0.5810			19,813.7340

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.9075	27.3129	52.7821	0.0843	2.4827	0.5969	3.0796	0.7056	0.5490	1.2545		8,033.0993	8,033.0993	0.0514			8,034.1791
Worker	4.7829	4.8720	60.4127	0.1613	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		11,768.4336	11,768.4336	0.5296			11,779.5550
Total	8.6904	32.1849	113.1947	0.2456	16.1790	0.6810	16.8600	4.3384	0.6270	4.9654		19,801.5329	19,801.5329	0.5810			19,813.7340

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641
Total	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.3813	23.2392	47.9433	0.0841	2.4824	0.5357	3.0181	0.7054	0.4928	1.1982		7,847.2556	7,847.2556	0.0493			7,848.2899
Worker	4.4431	4.5180	56.1886	0.1613	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		11,287.7303	11,287.7303	0.5021			11,298.2737
Total	7.8244	27.7572	104.1319	0.2454	16.1787	0.6207	16.7993	4.3383	0.5716	4.9099		19,134.9859	19,134.9859	0.5513			19,146.5635

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.4397	7,627.4397	1.8583			7,666.4641
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.4397	7,627.4397	1.8583			7,666.4641

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.3813	23.2392	47.9433	0.0841	2.4824	0.5357	3.0181	0.7054	0.4928	1.1982		7,847.2556	7,847.2556	0.0493			7,848.2899
Worker	4.4431	4.5180	56.1886	0.1613	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		11,287.7303	11,287.7303	0.5021			11,298.2737
Total	7.8244	27.7572	104.1319	0.2454	16.1787	0.6207	16.7993	4.3383	0.5716	4.9099		19,134.9859	19,134.9859	0.5513			19,146.5635

3.4 Building Construction - 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						
Off-Road	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.3452	7,628.3452	1.8378			7,666.9385
Total	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.3452	7,628.3452	1.8378			7,666.9385

3.4 Building Construction - 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	3.1237	19.1231	45.1537	0.0840	2.4823	0.4615	2.9438	0.7054	0.4246	1.1300		7,837.3740	7,837.3740	0.0498			7,838.4196
Worker	4.1803	4.2326	53.3881	0.1616	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		11,114.5203	11,114.5203	0.4860			11,124.7265
Total	7.3039	23.3557	98.5419	0.2456	16.1786	0.5486	16.7272	4.3383	0.5054	4.8436		18,951.8943	18,951.8943	0.5358			18,963.1460

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385

3.4 Building Construction - 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	3.1237	19.1231	45.1537	0.0840	2.4823	0.4615	2.9438	0.7054	0.4246	1.1300		7,837.3740	7,837.3740	0.0498			7,838.4196
Worker	4.1803	4.2326	53.3881	0.1616	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		11,114.5203	11,114.5203	0.4860			11,124.7265
Total	7.3039	23.3557	98.5419	0.2456	16.1786	0.5486	16.7272	4.3383	0.5054	4.8436		18,951.8943	18,951.8943	0.5358			18,963.1460

3.5 Paving - 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						
Off-Road	3.6924	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	4.1125	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111
Total	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111

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	0.8235	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.2437	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111
Total	0.1149	0.1164	1.4676	4.4400e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		305.5305	305.5305	0.0134			305.8111

3.6 Architectural Coating - 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						
Archit. Coating	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6567	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610
Total	17.2108	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610

3.6 Architectural Coating - 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	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0
Total	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0

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	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610
Total	16.6432	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610

3.6 Architectural Coating - 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	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0
Total	0.8350	0.8455	10.6646	0.0323	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,220.188 2	2,220.188 2	0.0971			2,222.227 0

3.6 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	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6136	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986
Total	17.1677	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986

3.6 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	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786
Total	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786

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	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986
Total	16.6432	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986

3.6 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	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786
Total	0.7862	0.7962	10.0591	0.0323	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,185.2187	2,185.2187	0.0933			2,187.1786

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	58.6521	106.7094	533.3540	1.2235	78.1966	2.3704	80.5670	20.8815	2.1846	23.0661		93,064.1937	93,064.1937	2.7779		93,122.5291
Unmitigated	59.9283	116.0112	569.1914	1.3779	88.6583	2.6599	91.3182	23.6752	2.4512	26.1264		104,811.1790	104,811.1790	3.0963		104,876.2010

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479334	0.061620	0.171239	0.155613	0.034509	0.006445	0.010737	0.070109	0.001118	0.001845	0.004327	0.000443	0.002660

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
NaturalGas Unmitigated	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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 Low Rise	5488.88	0.0592	0.5058	0.2153	3.2300e-003		0.0409	0.0409		0.0409	0.0409		645.7506	645.7506	0.0124	0.0118	649.6805
Apartments Low Rise	7556.61	0.0815	0.6964	0.2963	4.4500e-003		0.0563	0.0563		0.0563	0.0563		889.0128	889.0128	0.0170	0.0163	894.4232
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
Condo/Townhouse	14847.3	0.1601	1.3683	0.5823	8.7300e-003		0.1106	0.1106		0.1106	0.1106		1,746.7379	1,746.7379	0.0335	0.0320	1,757.3683
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
Parking Lot	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
Regional Shopping Center	1216.19	0.0131	0.1192	0.1002	7.2000e-004		9.0600e-003	9.0600e-003		9.0600e-003	9.0600e-003		143.0810	143.0810	2.7400e-003	2.6200e-003	143.9518
Regional Shopping Center	572.436	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.3454	67.3454	1.2900e-003	1.2300e-003	67.7553
Single Family Housing	23128	0.2494	2.1314	0.9070	0.0136		0.1723	0.1723		0.1723	0.1723		2,720.9444	2,720.9444	0.0522	0.0499	2,737.5036
Single Family Housing	24053.1	0.2594	2.2167	0.9433	0.0142		0.1792	0.1792		0.1792	0.1792		2,829.7822	2,829.7822	0.0542	0.0519	2,847.0038
Single Family Housing	42555.6	0.4589	3.9218	1.6689	0.0250		0.3171	0.3171		0.3171	0.3171		5,006.5377	5,006.5377	0.0960	0.0918	5,037.0067
Single Family Housing	5550.73	0.0599	0.5115	0.2177	3.2700e-003		0.0414	0.0414		0.0414	0.0414		653.0267	653.0267	0.0125	0.0120	657.0009
Total		1.3477	11.5273	4.9779	0.0735		0.9312	0.9312		0.9312	0.9312		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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					
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
Condo/Townhouse	11.667	0.1258	1.0752	0.4575	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,372.5928	1,372.5928	0.0263	0.0252	1,380.9461
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
Parking Lot	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
Regional Shopping Center	0.447833	4.8300e-003	0.0439	0.0369	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003		52.6862	52.6862	1.0100e-003	9.7000e-004	53.0068
Regional Shopping Center	0.951458	0.0103	0.0933	0.0784	5.6000e-004		7.0900e-003	7.0900e-003		7.0900e-003	7.0900e-003		111.9362	111.9362	2.1500e-003	2.0500e-003	112.6174
Single Family Housing	18.3649	0.1981	1.6925	0.7202	0.0108		0.1368	0.1368		0.1368	0.1368		2,160.5741	2,160.5741	0.0414	0.0396	2,173.7230
Single Family Housing	19.0995	0.2060	1.7602	0.7490	0.0112		0.1423	0.1423		0.1423	0.1423		2,246.9971	2,246.9971	0.0431	0.0412	2,260.6720
Single Family Housing	33.7914	0.3644	3.1141	1.3252	0.0199		0.2518	0.2518		0.2518	0.2518		3,975.4564	3,975.4564	0.0762	0.0729	3,999.6504
Single Family Housing	4.40757	0.0475	0.4062	0.1729	2.5900e-003		0.0328	0.0328		0.0328	0.0328		518.5378	518.5378	9.9400e-003	9.5100e-003	521.6935
Apartments Low Rise	4.36646	0.0471	0.4024	0.1712	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7012	513.7012	9.8500e-003	9.4200e-003	516.8275
Apartments Low Rise	6.01136	0.0648	0.5540	0.2357	3.5400e-003		0.0448	0.0448		0.0448	0.0448		707.2187	707.2187	0.0136	0.0130	711.5228
Total		1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	110.5565	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Unmitigated	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	30.0756					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	139.3395	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	1.2926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	110.5565	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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
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10.0 Vegetation

Vista Del Agua
Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Trips and VMT -

Grading - - 275.38 acres per site plan

Architectural Coating - SCAQMD limits paints to 50g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF (w/30% reduction in trips from pass-bys) shopping ctr, 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 50g/L paint per SCAQMD rule 1113.

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - @0% reduction in water use inide and out per CalGreen

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	42.94	29.89

tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015	20.5197	237.4250	155.2344	0.1908	56.9061	11.4098	66.1738	30.1541	10.4970	38.6804	0.0000	19,927.8700	19,927.8700	5.8354	0.0000	20,050.4125
2016	20.5634	224.6971	203.1814	0.3146	19.7851	10.7558	30.5409	10.1952	9.8954	20.0906	0.0000	28,694.5254	28,694.5254	5.8289	0.0000	28,816.9326
2017	18.5445	119.9618	190.1235	0.3144	16.1795	6.1247	22.3042	4.3386	5.7375	10.0762	0.0000	27,974.8004	27,974.8004	2.6079	0.0000	28,029.5669
2018	16.4328	106.8049	179.3113	0.3141	16.1792	5.2203	21.3995	4.3385	4.8931	9.2316	0.0000	27,291.7821	27,291.7821	2.5318	0.0000	27,344.9491
2019	14.9067	96.7175	170.9481	0.3139	16.1790	4.5434	20.7224	4.3384	4.2585	8.5969	0.0000	26,632.4303	26,632.4303	2.4674	0.0000	26,684.2454
2020	13.3698	86.3791	161.8790	0.3136	16.1787	3.9652	20.1439	4.3383	3.7165	8.0548	0.0000	25,885.4273	25,885.4273	2.4123	0.0000	25,936.0859
2021	84.0434	76.5254	155.7292	0.3138	16.1786	3.4183	19.5969	4.3383	3.2036	7.5418	0.0000	25,714.4440	25,714.4440	2.3764	0.0000	25,764.3477
2022	83.9667	5.0792	13.7212	0.0389	2.7359	0.2627	2.9987	0.7257	0.2615	0.9872	0.0000	2,876.3258	2,876.3258	0.1483	0.0000	2,879.4402
Total	272.3470	953.5900	1,230.1280	2.1140	160.3221	45.7003	203.8803	62.7671	42.4630	103.2595	0.0000	184,997.6051	184,997.6051	24.2084	0.0000	185,505.9803

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	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939
Mobile	49.9791	122.9716	611.9202	1.3085	88.6583	2.6751	91.3334	23.6752	2.4652	26.1404		99,899.1926	99,899.1926	3.1105		99,964.5135
Total	190.6663	136.0617	752.8625	1.3891	88.6583	10.4829	99.1413	23.6752	10.2086	33.8837	0.0000	211,606.7546	211,606.7546	5.4821	2.0435	212,355.3657

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	115.7268	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
Mobile	48.7956	112.9132	582.9594	1.1621	78.1966	2.3856	80.5822	20.8815	2.1985	23.0800		88,696.1140	88,696.1140	2.7921		88,754.7483
Total	165.5912	123.6176	722.8707	1.2275	78.1966	10.0008	88.1974	20.8815	9.7492	30.6307	0.0000	197,361.1579	197,361.1579	5.1054	1.9877	198,084.5662

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.15	9.15	3.98	11.63	11.80	4.60	11.04	11.80	4.50	9.60	0.00	6.73	6.73	6.87	2.73	6.72

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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					56.4627	0.0000	56.4627	30.0365	0.0000	30.0365			0.0000			0.0000
Off-Road	15.7828	170.6690	127.8953	0.1174		9.2648	9.2648		8.5237	8.5237		12,335.23 31	12,335.23 31	3.6826		12,412.56 73
Total	15.7828	170.6690	127.8953	0.1174	56.4627	9.2648	65.7275	30.0365	8.5237	38.5602		12,335.23 31	12,335.23 31	3.6826		12,412.56 73

3.2 Site Preparation - 2015

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	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231			414.8915
Total	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231			414.8915

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					22.0204	0.0000	22.0204	11.7142	0.0000	11.7142			0.0000				0.0000
Off-Road	1.4272	4.9476	63.7245	0.1174		0.0285	0.0285		0.0285	0.0285	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673
Total	1.4272	4.9476	63.7245	0.1174	22.0204	0.0285	22.0490	11.7142	0.0285	11.7428	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673

3.2 Site Preparation - 2015

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	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231		414.8915
Total	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231		414.8915

3.3 Grading - 2015

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000			0.0000
Off-Road	20.3254	237.1400	152.5199	0.1853		11.4065	11.4065		10.4940	10.4940		19,458.7299	19,458.7299	5.8092		19,580.7240
Total	20.3254	237.1400	152.5199	0.1853	19.2831	11.4065	30.6896	10.0621	10.4940	20.5561		19,458.7299	19,458.7299	5.8092		19,580.7240

3.3 Grading - 2015

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	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261			469.6885
Total	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261			469.6885

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000				0.0000
Off-Road	2.2692	7.8667	104.3362	0.1853		0.0454	0.0454		0.0454	0.0454	0.0000	19,458.7299	19,458.7299	5.8092			19,580.7240
Total	2.2692	7.8667	104.3362	0.1853	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,458.7299	19,458.7299	5.8092			19,580.7240

3.3 Grading - 2015

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	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261		469.6885
Total	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261		469.6885

3.3 Grading - 2016

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000			0.0000
Off-Road	19.4384	224.4412	147.4122	0.1851		10.7527	10.7527		9.8925	9.8925		19,244.9422	19,244.9422	5.8050		19,366.8463
Total	19.4384	224.4412	147.4122	0.1851	19.2831	10.7527	30.0358	10.0621	9.8925	19.9546		19,244.9422	19,244.9422	5.8050		19,366.8463

3.3 Grading - 2016

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	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240		452.1512
Total	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240		452.1512

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000			0.0000
Off-Road	2.2692	7.8667	104.3362	0.1851		0.0454	0.0454		0.0454	0.0454	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462
Total	2.2692	7.8667	104.3362	0.1851	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462

3.3 Grading - 2016

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	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240			452.1512
Total	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240			452.1512

3.4 Building Construction - 2016

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	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861			8,049.5671
Total	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861			8,049.5671

3.4 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.5941	38.4268	81.1646	0.0842	2.4819	0.7962	3.2782	0.7053	0.7321	1.4374		8,364.2022	8,364.2022	0.0595			8,365.4518
Worker	4.7506	6.9812	66.4969	0.1500	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		12,322.4640	12,322.4640	0.6537			12,336.1915
Total	10.3447	45.4080	147.6615	0.2341	16.1782	0.8813	17.0595	4.3381	0.8104	5.1485		20,686.6662	20,686.6662	0.7132			20,701.6434

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670

3.4 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.5941	38.4268	81.1646	0.0842	2.4819	0.7962	3.2782	0.7053	0.7321	1.4374		8,364.2022	8,364.2022	0.0595			8,365.4518
Worker	4.7506	6.9812	66.4969	0.1500	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		12,322.4640	12,322.4640	0.6537			12,336.1915
Total	10.3447	45.4080	147.6615	0.2341	16.1782	0.8813	17.0595	4.3381	0.8104	5.1485		20,686.6662	20,686.6662	0.7132			20,701.6434

3.4 Building Construction - 2017

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	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471
Total	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.9905	34.4554	75.9614	0.0840	2.4832	0.6975	3.1807	0.7058	0.6415	1.3472		8,227.9048	8,227.9048	0.0560			8,229.0814
Worker	4.2469	6.2894	59.7747	0.1499	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		11,827.4796	11,827.4796	0.6028			11,840.1384
Total	9.2375	40.7448	135.7361	0.2339	16.1795	0.7811	16.9606	4.3386	0.7186	5.0572		20,055.3844	20,055.3844	0.6588			20,069.2198

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.9905	34.4554	75.9614	0.0840	2.4832	0.6975	3.1807	0.7058	0.6415	1.3472		8,227.9048	8,227.9048	0.0560			8,229.0814
Worker	4.2469	6.2894	59.7747	0.1499	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		11,827.4796	11,827.4796	0.6028			11,840.1384
Total	9.2375	40.7448	135.7361	0.2339	16.1795	0.7811	16.9606	4.3386	0.7186	5.0572		20,055.3844	20,055.3844	0.6588			20,069.2198

3.4 Building Construction - 2018

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	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551
Total	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.6143	31.3127	72.6182	0.0838	2.4829	0.6544	3.1373	0.7057	0.6018	1.3075		8,086.7213	8,086.7213	0.0550			8,087.8761
Worker	3.8125	5.7096	54.0952	0.1499	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		11,375.2440	11,375.2440	0.5607			11,387.0179
Total	8.4268	37.0224	126.7133	0.2337	16.1792	0.7375	16.9167	4.3385	0.6788	5.0173		19,461.9652	19,461.9652	0.6157			19,474.8940

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.6143	31.3127	72.6182	0.0838	2.4829	0.6544	3.1373	0.7057	0.6018	1.3075		8,086.7213	8,086.7213	0.0550			8,087.8761
Worker	3.8125	5.7096	54.0952	0.1499	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		11,375.2440	11,375.2440	0.5607			11,387.0179
Total	8.4268	37.0224	126.7133	0.2337	16.1792	0.7375	16.9167	4.3385	0.6788	5.0173		19,461.9652	19,461.9652	0.6157			19,474.8940

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437
Total	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	4.3459	28.5883	69.6105	0.0837	2.4827	0.6041	3.0868	0.7056	0.5557	1.2612		7,944.2960	7,944.2960	0.0541			7,945.4314
Worker	3.5060	5.2341	49.9765	0.1498	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		10,945.8490	10,945.8490	0.5296			10,956.9703
Total	7.8518	33.8224	119.5870	0.2334	16.1790	0.6883	16.8673	4.3384	0.6336	4.9721		18,890.1450	18,890.1450	0.5837			18,902.4017

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	4.3459	28.5883	69.6105	0.0837	2.4827	0.6041	3.0868	0.7056	0.5557	1.2612		7,944.2960	7,944.2960	0.0541			7,945.4314
Worker	3.5060	5.2341	49.9765	0.1498	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		10,945.8490	10,945.8490	0.5296			10,956.9703
Total	7.8518	33.8224	119.5870	0.2334	16.1790	0.6883	16.8673	4.3384	0.6336	4.9721		18,890.1450	18,890.1450	0.5837			18,902.4017

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641
Total	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.7690	24.2773	65.0375	0.0835	2.4824	0.5417	3.0241	0.7054	0.4983	1.2038		7,760.124 2	7,760.124 2	0.0520			7,761.215 1
Worker	3.2671	4.8500	46.4162	0.1498	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		10,497.86 34	10,497.86 34	0.5021			10,508.40 67
Total	7.0360	29.1273	111.4537	0.2332	16.1787	0.6267	16.8054	4.3383	0.5772	4.9154		18,257.98 76	18,257.98 76	0.5540			18,269.62 18

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.439 7	7,627.439 7	1.8583			7,666.464 1
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.439 7	7,627.439 7	1.8583			7,666.464 1

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.7690	24.2773	65.0375	0.0835	2.4824	0.5417	3.0241	0.7054	0.4983	1.2038		7,760.124 2	7,760.124 2	0.0520			7,761.215 1
Worker	3.2671	4.8500	46.4162	0.1498	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		10,497.86 34	10,497.86 34	0.5021			10,508.40 67
Total	7.0360	29.1273	111.4537	0.2332	16.1787	0.6267	16.8054	4.3383	0.5772	4.9154		18,257.98 76	18,257.98 76	0.5540			18,269.62 18

3.4 Building Construction - 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						
Off-Road	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.345 2	7,628.345 2	1.8378			7,666.938 5
Total	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.345 2	7,628.345 2	1.8378			7,666.938 5

3.4 Building Construction - 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	3.4776	19.9636	62.1118	0.0833	2.4823	0.4666	2.9489	0.7054	0.4292	1.1347		7,750.2010	7,750.2010	0.0526			7,751.3052
Worker	3.0855	4.5410	44.0045	0.1501	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		10,335.8978	10,335.8978	0.4860			10,346.1040
Total	6.5631	24.5047	106.1163	0.2334	16.1786	0.5536	16.7323	4.3383	0.5100	4.8483		18,086.0988	18,086.0988	0.5386			18,097.4092

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385

3.4 Building Construction - 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	3.4776	19.9636	62.1118	0.0833	2.4823	0.4666	2.9489	0.7054	0.4292	1.1347		7,750.2010	7,750.2010	0.0526			7,751.3052
Worker	3.0855	4.5410	44.0045	0.1501	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		10,335.8978	10,335.8978	0.4860			10,346.1040
Total	6.5631	24.5047	106.1163	0.2334	16.1786	0.5536	16.7323	4.3383	0.5100	4.8483		18,086.0988	18,086.0988	0.5386			18,097.4092

3.5 Paving - 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						
Off-Road	3.6924	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	4.1125	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073
Total	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073

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	0.8235	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.2437	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073
Total	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073

3.6 Architectural Coating - 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						
Archit. Coating	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6567	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610
Total	83.4271	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610

3.6 Architectural Coating - 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	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927
Total	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927

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	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610
Total	82.8595	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610

3.6 Architectural Coating - 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	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927
Total	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927

3.6 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	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6136	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986
Total	83.3840	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986

3.6 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	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416
Total	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416

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	82.7704					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986
Total	82.8595	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986

3.6 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	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416
Total	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	48.7956	112.9132	582.9594	1.1621	78.1966	2.3856	80.5822	20.8815	2.1985	23.0800		88,696.11 40	88,696.11 40	2.7921		88,754.74 83
Unmitigated	49.9791	122.9716	611.9202	1.3085	88.6583	2.6751	91.3334	23.6752	2.4652	26.1404		99,899.19 26	99,899.19 26	3.1105		99,964.51 35

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479334	0.061620	0.171239	0.155613	0.034509	0.006445	0.010737	0.070109	0.001118	0.001845	0.004327	0.000443	0.002660

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
NaturalGas Unmitigated	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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 Low Rise	5488.88	0.0592	0.5058	0.2153	3.2300e-003		0.0409	0.0409		0.0409	0.0409		645.7506	645.7506	0.0124	0.0118	649.6805
Apartments Low Rise	7556.61	0.0815	0.6964	0.2963	4.4500e-003		0.0563	0.0563		0.0563	0.0563		889.0128	889.0128	0.0170	0.0163	894.4232
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
Condo/Townhouse	14847.3	0.1601	1.3683	0.5823	8.7300e-003		0.1106	0.1106		0.1106	0.1106		1,746.7379	1,746.7379	0.0335	0.0320	1,757.3683
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
Parking Lot	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
Regional Shopping Center	1216.19	0.0131	0.1192	0.1002	7.2000e-004		9.0600e-003	9.0600e-003		9.0600e-003	9.0600e-003		143.0810	143.0810	2.7400e-003	2.6200e-003	143.9518
Regional Shopping Center	572.436	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.3454	67.3454	1.2900e-003	1.2300e-003	67.7553
Single Family Housing	23128	0.2494	2.1314	0.9070	0.0136		0.1723	0.1723		0.1723	0.1723		2,720.9444	2,720.9444	0.0522	0.0499	2,737.5036
Single Family Housing	24053.1	0.2594	2.2167	0.9433	0.0142		0.1792	0.1792		0.1792	0.1792		2,829.7822	2,829.7822	0.0542	0.0519	2,847.0038
Single Family Housing	42555.6	0.4589	3.9218	1.6689	0.0250		0.3171	0.3171		0.3171	0.3171		5,006.5377	5,006.5377	0.0960	0.0918	5,037.0067
Single Family Housing	5550.73	0.0599	0.5115	0.2177	3.2700e-003		0.0414	0.0414		0.0414	0.0414		653.0267	653.0267	0.0125	0.0120	657.0009
Total		1.3477	11.5273	4.9779	0.0735		0.9312	0.9312		0.9312	0.9312		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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					
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
Condo/Townhouse	11.667	0.1258	1.0752	0.4575	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,372.5928	1,372.5928	0.0263	0.0252	1,380.9461
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
Parking Lot	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
Regional Shopping Center	0.447833	4.8300e-003	0.0439	0.0369	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003		52.6862	52.6862	1.0100e-003	9.7000e-004	53.0068
Regional Shopping Center	0.951458	0.0103	0.0933	0.0784	5.6000e-004		7.0900e-003	7.0900e-003		7.0900e-003	7.0900e-003		111.9362	111.9362	2.1500e-003	2.0500e-003	112.6174
Single Family Housing	18.3649	0.1981	1.6925	0.7202	0.0108		0.1368	0.1368		0.1368	0.1368		2,160.5741	2,160.5741	0.0414	0.0396	2,173.7230
Single Family Housing	19.0995	0.2060	1.7602	0.7490	0.0112		0.1423	0.1423		0.1423	0.1423		2,246.9971	2,246.9971	0.0431	0.0412	2,260.6720
Single Family Housing	33.7914	0.3644	3.1141	1.3252	0.0199		0.2518	0.2518		0.2518	0.2518		3,975.4564	3,975.4564	0.0762	0.0729	3,999.6504
Single Family Housing	4.40757	0.0475	0.4062	0.1729	2.5900e-003		0.0328	0.0328		0.0328	0.0328		518.5378	518.5378	9.9400e-003	9.5100e-003	521.6935
Apartments Low Rise	4.36646	0.0471	0.4024	0.1712	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7012	513.7012	9.8500e-003	9.4200e-003	516.8275
Apartments Low Rise	6.01136	0.0648	0.5540	0.2357	3.5400e-003		0.0448	0.0448		0.0448	0.0448		707.2187	707.2187	0.0136	0.0130	711.5228
Total		1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	115.7268	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Unmitigated	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	30.0756					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	139.3395	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	6.4629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	115.7268	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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
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10.0 Vegetation

**Vista Del Agua PAINT MIT 10g/L
Riverside-Salton Sea County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - For construction and operational architectural coating mitigation limiting paints to 10g/L VOC

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Trips and VMT -

Grading - - 275.38 acres per site plan

Architectural Coating - limits paints to 10g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF (w/30% reduction in trips from pass-bys) shopping ctr, 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 10g/L paint

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - 20% reduction in water use inide and out per CalGreen

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	10
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81

tblVehicleTrips	WD_TR	42.94	29.89
tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015	20.5197	237.4250	155.2344	0.1908	56.9061	11.4098	66.1738	30.1541	10.4970	38.6804	0.0000	19,927.8700	19,927.8700	5.8354	0.0000	20,050.4125
2016	20.5634	224.6971	203.1814	0.3146	19.7851	10.7558	30.5409	10.1952	9.8954	20.0906	0.0000	28,694.5254	28,694.5254	5.8289	0.0000	28,816.9326
2017	18.5445	119.9618	190.1235	0.3144	16.1795	6.1247	22.3042	4.3386	5.7375	10.0762	0.0000	27,974.8004	27,974.8004	2.6079	0.0000	28,029.5669
2018	16.4328	106.8049	179.3113	0.3141	16.1792	5.2203	21.3995	4.3385	4.8931	9.2316	0.0000	27,291.7821	27,291.7821	2.5318	0.0000	27,344.9491
2019	14.9067	96.7175	170.9481	0.3139	16.1790	4.5434	20.7224	4.3384	4.2585	8.5969	0.0000	26,632.4303	26,632.4303	2.4674	0.0000	26,684.2454
2020	13.3698	86.3791	161.8790	0.3136	16.1787	3.9652	20.1439	4.3383	3.7165	8.0548	0.0000	25,885.4273	25,885.4273	2.4123	0.0000	25,936.0859
2021	17.8271	76.5254	155.7292	0.3138	16.1786	3.4183	19.5969	4.3383	3.2036	7.5418	0.0000	25,714.4440	25,714.4440	2.3764	0.0000	25,764.3477
2022	17.7504	5.0792	13.7212	0.0389	2.7359	0.2627	2.9987	0.7257	0.2615	0.9872	0.0000	2,876.3258	2,876.3258	0.1483	0.0000	2,879.4402
Total	139.9143	953.5900	1,230.1280	2.1140	160.3221	45.7003	203.8803	62.7671	42.4630	103.2595	0.0000	184,997.6051	184,997.6051	24.2084	0.0000	185,505.9803

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	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939
Mobile	49.9791	122.9716	611.9202	1.3085	88.6583	2.6751	91.3334	23.6752	2.4652	26.1404		99,899.1926	99,899.1926	3.1105		99,964.5135
Total	190.6663	136.0617	752.8625	1.3891	88.6583	10.4829	99.1413	23.6752	10.2086	33.8837	0.0000	211,606.7546	211,606.7546	5.4821	2.0435	212,355.3657

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	110.5565	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Energy	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
Mobile	48.7956	112.9132	582.9594	1.1621	78.1966	2.3856	80.5822	20.8815	2.1985	23.0800		88,696.1140	88,696.1140	2.7921		88,754.7483
Total	160.4209	123.6176	722.8707	1.2275	78.1966	10.0008	88.1974	20.8815	9.7492	30.6307	0.0000	197,361.1579	197,361.1579	5.1054	1.9877	198,084.5662

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	15.86	9.15	3.98	11.63	11.80	4.60	11.04	11.80	4.50	9.60	0.00	6.73	6.73	6.87	2.73	6.72

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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					56.4627	0.0000	56.4627	30.0365	0.0000	30.0365			0.0000			0.0000
Off-Road	15.7828	170.6690	127.8953	0.1174		9.2648	9.2648		8.5237	8.5237		12,335.23 31	12,335.23 31	3.6826		12,412.56 73
Total	15.7828	170.6690	127.8953	0.1174	56.4627	9.2648	65.7275	30.0365	8.5237	38.5602		12,335.23 31	12,335.23 31	3.6826		12,412.56 73

3.2 Site Preparation - 2015

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	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231			414.8915
Total	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231			414.8915

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					22.0204	0.0000	22.0204	11.7142	0.0000	11.7142			0.0000				0.0000
Off-Road	1.4272	4.9476	63.7245	0.1174		0.0285	0.0285		0.0285	0.0285	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673
Total	1.4272	4.9476	63.7245	0.1174	22.0204	0.0285	22.0490	11.7142	0.0285	11.7428	0.0000	12,335.2331	12,335.2331	3.6826			12,412.5673

3.2 Site Preparation - 2015

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	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231			414.8915
Total	0.1716	0.2517	2.3978	4.8600e-003	0.4434	2.8500e-003	0.4463	0.1176	2.6100e-003	0.1202		414.4071	414.4071	0.0231			414.8915

3.3 Grading - 2015

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000				0.0000
Off-Road	20.3254	237.1400	152.5199	0.1853		11.4065	11.4065		10.4940	10.4940		19,458.7299	19,458.7299	5.8092			19,580.7240
Total	20.3254	237.1400	152.5199	0.1853	19.2831	11.4065	30.6896	10.0621	10.4940	20.5561		19,458.7299	19,458.7299	5.8092			19,580.7240

3.3 Grading - 2015

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	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261			469.6885
Total	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261			469.6885

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000			0.0000	
Off-Road	2.2692	7.8667	104.3362	0.1853		0.0454	0.0454		0.0454	0.0454	0.0000	19,458.7299	19,458.7299	5.8092			19,580.7240
Total	2.2692	7.8667	104.3362	0.1853	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,458.7299	19,458.7299	5.8092			19,580.7240

3.3 Grading - 2015

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	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261			469.6885
Total	0.1943	0.2850	2.7145	5.5000e-003	0.5020	3.2200e-003	0.5052	0.1332	2.9600e-003	0.1361		469.1401	469.1401	0.0261			469.6885

3.3 Grading - 2016

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					19.2831	0.0000	19.2831	10.0621	0.0000	10.0621			0.0000				0.0000
Off-Road	19.4384	224.4412	147.4122	0.1851		10.7527	10.7527		9.8925	9.8925		19,244.9422	19,244.9422	5.8050			19,366.8463
Total	19.4384	224.4412	147.4122	0.1851	19.2831	10.7527	30.0358	10.0621	9.8925	19.9546		19,244.9422	19,244.9422	5.8050			19,366.8463

3.3 Grading - 2016

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	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240		452.1512
Total	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240		452.1512

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					7.5204	0.0000	7.5204	3.9242	0.0000	3.9242			0.0000			0.0000
Off-Road	2.2692	7.8667	104.3362	0.1851		0.0454	0.0454		0.0454	0.0454	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462
Total	2.2692	7.8667	104.3362	0.1851	7.5204	0.0454	7.5658	3.9242	0.0454	3.9696	0.0000	19,244.9421	19,244.9421	5.8050		19,366.8462

3.3 Grading - 2016

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	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240		452.1512
Total	0.1741	0.2559	2.4373	5.5000e-003	0.5020	3.1200e-003	0.5051	0.1332	2.8700e-003	0.1360		451.6480	451.6480	0.0240		452.1512

3.4 Building Construction - 2016

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	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861		8,049.5671
Total	10.2187	85.5190	55.5199	0.0804		5.9022	5.9022		5.5454	5.5454		8,007.8592	8,007.8592	1.9861		8,049.5671

3.4 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.5941	38.4268	81.1646	0.0842	2.4819	0.7962	3.2782	0.7053	0.7321	1.4374		8,364.2022	8,364.2022	0.0595			8,365.4518
Worker	4.7506	6.9812	66.4969	0.1500	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		12,322.4640	12,322.4640	0.6537			12,336.1915
Total	10.3447	45.4080	147.6615	0.2341	16.1782	0.8813	17.0595	4.3381	0.8104	5.1485		20,686.6662	20,686.6662	0.7132			20,701.6434

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	8,007.8592	8,007.8592	1.9861			8,049.5670

3.4 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	5.5941	38.4268	81.1646	0.0842	2.4819	0.7962	3.2782	0.7053	0.7321	1.4374		8,364.2022	8,364.2022	0.0595			8,365.4518
Worker	4.7506	6.9812	66.4969	0.1500	13.6963	0.0851	13.7814	3.6329	0.0783	3.7111		12,322.4640	12,322.4640	0.6537			12,336.1915
Total	10.3447	45.4080	147.6615	0.2341	16.1782	0.8813	17.0595	4.3381	0.8104	5.1485		20,686.6662	20,686.6662	0.7132			20,701.6434

3.4 Building Construction - 2017

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	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471
Total	9.3071	79.2170	54.3874	0.0804		5.3437	5.3437		5.0189	5.0189		7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.9905	34.4554	75.9614	0.0840	2.4832	0.6975	3.1807	0.7058	0.6415	1.3472		8,227.9048	8,227.9048	0.0560			8,229.0814
Worker	4.2469	6.2894	59.7747	0.1499	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		11,827.4796	11,827.4796	0.6028			11,840.1384
Total	9.2375	40.7448	135.7361	0.2339	16.1795	0.7811	16.9606	4.3386	0.7186	5.0572		20,055.3844	20,055.3844	0.6588			20,069.2198

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,919.4160	7,919.4160	1.9491			7,960.3471

3.4 Building Construction - 2017

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	4.9905	34.4554	75.9614	0.0840	2.4832	0.6975	3.1807	0.7058	0.6415	1.3472		8,227.9048	8,227.9048	0.0560			8,229.0814
Worker	4.2469	6.2894	59.7747	0.1499	13.6963	0.0836	13.7799	3.6329	0.0772	3.7100		11,827.4796	11,827.4796	0.6028			11,840.1384
Total	9.2375	40.7448	135.7361	0.2339	16.1795	0.7811	16.9606	4.3386	0.7186	5.0572		20,055.3844	20,055.3844	0.6588			20,069.2198

3.4 Building Construction - 2018

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	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551
Total	8.0061	69.7825	52.5980	0.0804		4.4828	4.4828		4.2143	4.2143		7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.6143	31.3127	72.6182	0.0838	2.4829	0.6544	3.1373	0.7057	0.6018	1.3075		8,086.7213	8,086.7213	0.0550			8,087.8761
Worker	3.8125	5.7096	54.0952	0.1499	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		11,375.2440	11,375.2440	0.5607			11,387.0179
Total	8.4268	37.0224	126.7133	0.2337	16.1792	0.7375	16.9167	4.3385	0.6788	5.0173		19,461.9652	19,461.9652	0.6157			19,474.8940

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,829.8168	7,829.8168	1.9161			7,870.0551

3.4 Building Construction - 2018

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	4.6143	31.3127	72.6182	0.0838	2.4829	0.6544	3.1373	0.7057	0.6018	1.3075		8,086.7213	8,086.7213	0.0550			8,087.8761
Worker	3.8125	5.7096	54.0952	0.1499	13.6963	0.0831	13.7794	3.6329	0.0769	3.7098		11,375.2440	11,375.2440	0.5607			11,387.0179
Total	8.4268	37.0224	126.7133	0.2337	16.1792	0.7375	16.9167	4.3385	0.6788	5.0173		19,461.9652	19,461.9652	0.6157			19,474.8940

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437
Total	7.0549	62.8951	51.3610	0.0804		3.8551	3.8551		3.6248	3.6248		7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	4.3459	28.5883	69.6105	0.0837	2.4827	0.6041	3.0868	0.7056	0.5557	1.2612		7,944.2960	7,944.2960	0.0541			7,945.4314
Worker	3.5060	5.2341	49.9765	0.1498	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		10,945.8490	10,945.8490	0.5296			10,956.9703
Total	7.8518	33.8224	119.5870	0.2334	16.1790	0.6883	16.8673	4.3384	0.6336	4.9721		18,890.1450	18,890.1450	0.5837			18,902.4017

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,742.2853	7,742.2853	1.8837			7,781.8437

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	4.3459	28.5883	69.6105	0.0837	2.4827	0.6041	3.0868	0.7056	0.5557	1.2612		7,944.2960	7,944.2960	0.0541			7,945.4314
Worker	3.5060	5.2341	49.9765	0.1498	13.6963	0.0841	13.7804	3.6329	0.0780	3.7109		10,945.8490	10,945.8490	0.5296			10,956.9703
Total	7.8518	33.8224	119.5870	0.2334	16.1790	0.6883	16.8673	4.3384	0.6336	4.9721		18,890.1450	18,890.1450	0.5837			18,902.4017

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641
Total	6.3338	57.2518	50.4253	0.0804		3.3385	3.3385		3.1394	3.1394		7,627.4397	7,627.4397	1.8583			7,666.4641

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.7690	24.2773	65.0375	0.0835	2.4824	0.5417	3.0241	0.7054	0.4983	1.2038		7,760.124 2	7,760.124 2	0.0520			7,761.215 1
Worker	3.2671	4.8500	46.4162	0.1498	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		10,497.86 34	10,497.86 34	0.5021			10,508.40 67
Total	7.0360	29.1273	111.4537	0.2332	16.1787	0.6267	16.8054	4.3383	0.5772	4.9154		18,257.98 76	18,257.98 76	0.5540			18,269.62 18

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.439 7	7,627.439 7	1.8583			7,666.464 1
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,627.439 7	7,627.439 7	1.8583			7,666.464 1

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	3.7690	24.2773	65.0375	0.0835	2.4824	0.5417	3.0241	0.7054	0.4983	1.2038		7,760.124 2	7,760.124 2	0.0520			7,761.215 1
Worker	3.2671	4.8500	46.4162	0.1498	13.6963	0.0850	13.7813	3.6329	0.0788	3.7117		10,497.86 34	10,497.86 34	0.5021			10,508.40 67
Total	7.0360	29.1273	111.4537	0.2332	16.1787	0.6267	16.8054	4.3383	0.5772	4.9154		18,257.98 76	18,257.98 76	0.5540			18,269.62 18

3.4 Building Construction - 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						
Off-Road	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.345 2	7,628.345 2	1.8378			7,666.938 5
Total	5.6793	52.0208	49.6129	0.0804		2.8647	2.8647		2.6935	2.6935		7,628.345 2	7,628.345 2	1.8378			7,666.938 5

3.4 Building Construction - 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	3.4776	19.9636	62.1118	0.0833	2.4823	0.4666	2.9489	0.7054	0.4292	1.1347		7,750.2010	7,750.2010	0.0526			7,751.3052
Worker	3.0855	4.5410	44.0045	0.1501	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		10,335.8978	10,335.8978	0.4860			10,346.1040
Total	6.5631	24.5047	106.1163	0.2334	16.1786	0.5536	16.7323	4.3383	0.5100	4.8483		18,086.0988	18,086.0988	0.5386			18,097.4092

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	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385
Total	0.9794	5.3493	52.2331	0.0804		0.0183	0.0183		0.0183	0.0183	0.0000	7,628.3452	7,628.3452	1.8378			7,666.9385

3.4 Building Construction - 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	3.4776	19.9636	62.1118	0.0833	2.4823	0.4666	2.9489	0.7054	0.4292	1.1347		7,750.2010	7,750.2010	0.0526			7,751.3052
Worker	3.0855	4.5410	44.0045	0.1501	13.6963	0.0871	13.7834	3.6329	0.0808	3.7136		10,335.8978	10,335.8978	0.4860			10,346.1040
Total	6.5631	24.5047	106.1163	0.2334	16.1786	0.5536	16.7323	4.3383	0.5100	4.8483		18,086.0988	18,086.0988	0.5386			18,097.4092

3.5 Paving - 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						
Off-Road	3.6924	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	4.1125	37.9820	43.0583	0.0669		1.9955	1.9955		1.8359	1.8359		6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073
Total	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073

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	0.8235	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751
Paving	0.4202					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.2437	2.8548	50.7829	0.0669		0.0165	0.0165		0.0165	0.0165	0.0000	6,480.7590	6,480.7590	2.0960			6,524.7751

3.5 Paving - 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	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073
Total	0.0848	0.1248	1.2097	4.1300e-003	0.3765	2.3900e-003	0.3789	0.0999	2.2200e-003	0.1021		284.1267	284.1267	0.0134			284.4073

3.6 Architectural Coating - 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						
Archit. Coating	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6567	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610
Total	17.2108	4.5805	5.4527	8.9100e-003		0.2823	0.2823		0.2823	0.2823		844.3442	844.3442	0.0579			845.5610

3.6 Architectural Coating - 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	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927
Total	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927

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	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610
Total	16.6432	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0579			845.5610

3.6 Architectural Coating - 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	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927
Total	0.6164	0.9071	8.7901	0.0300	2.7359	0.0174	2.7533	0.7257	0.0161	0.7418		2,064.6540	2,064.6540	0.0971			2,066.6927

3.6 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	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.6136	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986
Total	17.1677	4.2254	5.4408	8.9100e-003		0.2452	0.2452		0.2452	0.2452		844.3442	844.3442	0.0550			845.4986

3.6 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	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416
Total	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416

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	16.5541					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0891	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986
Total	16.6432	0.3090	5.4972	8.9100e-003		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	844.3441	844.3441	0.0550			845.4986

3.6 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	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416
Total	0.5827	0.8537	8.2804	0.0300	2.7359	0.0176	2.7535	0.7257	0.0163	0.7420		2,031.9816	2,031.9816	0.0933			2,033.9416

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	48.7956	112.9132	582.9594	1.1621	78.1966	2.3856	80.5822	20.8815	2.1985	23.0800		88,696.11 40	88,696.11 40	2.7921		88,754.74 83
Unmitigated	49.9791	122.9716	611.9202	1.3085	88.6583	2.6751	91.3334	23.6752	2.4652	26.1404		99,899.19 26	99,899.19 26	3.1105		99,964.51 35

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479334	0.061620	0.171239	0.155613	0.034509	0.006445	0.010737	0.070109	0.001118	0.001845	0.004327	0.000443	0.002660

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595
NaturalGas Unmitigated	1.3477	11.5273	4.9779	0.0735		0.9311	0.9311		0.9311	0.9311		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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 Low Rise	5488.88	0.0592	0.5058	0.2153	3.2300e-003		0.0409	0.0409		0.0409	0.0409		645.7506	645.7506	0.0124	0.0118	649.6805
Apartments Low Rise	7556.61	0.0815	0.6964	0.2963	4.4500e-003		0.0563	0.0563		0.0563	0.0563		889.0128	889.0128	0.0170	0.0163	894.4232
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
Condo/Townhouse	14847.3	0.1601	1.3683	0.5823	8.7300e-003		0.1106	0.1106		0.1106	0.1106		1,746.7379	1,746.7379	0.0335	0.0320	1,757.3683
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
Parking Lot	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
Regional Shopping Center	1216.19	0.0131	0.1192	0.1002	7.2000e-004		9.0600e-003	9.0600e-003		9.0600e-003	9.0600e-003		143.0810	143.0810	2.7400e-003	2.6200e-003	143.9518
Regional Shopping Center	572.436	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.3454	67.3454	1.2900e-003	1.2300e-003	67.7553
Single Family Housing	23128	0.2494	2.1314	0.9070	0.0136		0.1723	0.1723		0.1723	0.1723		2,720.9444	2,720.9444	0.0522	0.0499	2,737.5036
Single Family Housing	24053.1	0.2594	2.2167	0.9433	0.0142		0.1792	0.1792		0.1792	0.1792		2,829.7822	2,829.7822	0.0542	0.0519	2,847.0038
Single Family Housing	42555.6	0.4589	3.9218	1.6689	0.0250		0.3171	0.3171		0.3171	0.3171		5,006.5377	5,006.5377	0.0960	0.0918	5,037.0067
Single Family Housing	5550.73	0.0599	0.5115	0.2177	3.2700e-003		0.0414	0.0414		0.0414	0.0414		653.0267	653.0267	0.0125	0.0120	657.0009
Total		1.3477	11.5273	4.9779	0.0735		0.9312	0.9312		0.9312	0.9312		14,702.2187	14,702.2187	0.2818	0.2695	14,791.6939

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					
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
Condo/Townhouse	11.667	0.1258	1.0752	0.4575	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,372.5928	1,372.5928	0.0263	0.0252	1,380.9461
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
Parking Lot	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
Regional Shopping Center	0.447833	4.8300e-003	0.0439	0.0369	2.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003		52.6862	52.6862	1.0100e-003	9.7000e-004	53.0068
Regional Shopping Center	0.951458	0.0103	0.0933	0.0784	5.6000e-004		7.0900e-003	7.0900e-003		7.0900e-003	7.0900e-003		111.9362	111.9362	2.1500e-003	2.0500e-003	112.6174
Single Family Housing	18.3649	0.1981	1.6925	0.7202	0.0108		0.1368	0.1368		0.1368	0.1368		2,160.5741	2,160.5741	0.0414	0.0396	2,173.7230
Single Family Housing	19.0995	0.2060	1.7602	0.7490	0.0112		0.1423	0.1423		0.1423	0.1423		2,246.9971	2,246.9971	0.0431	0.0412	2,260.6720
Single Family Housing	33.7914	0.3644	3.1141	1.3252	0.0199		0.2518	0.2518		0.2518	0.2518		3,975.4564	3,975.4564	0.0762	0.0729	3,999.6504
Single Family Housing	4.40757	0.0475	0.4062	0.1729	2.5900e-003		0.0328	0.0328		0.0328	0.0328		518.5378	518.5378	9.9400e-003	9.5100e-003	521.6935
Apartments Low Rise	4.36646	0.0471	0.4024	0.1712	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7012	513.7012	9.8500e-003	9.4200e-003	516.8275
Apartments Low Rise	6.01136	0.0648	0.5540	0.2357	3.5400e-003		0.0448	0.0448		0.0448	0.0448		707.2187	707.2187	0.0136	0.0130	711.5228
Total		1.0688	9.1417	3.9469	0.0583		0.7385	0.7385		0.7385	0.7385		11,659.7005	11,659.7005	0.2235	0.2138	11,730.6595

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	110.5565	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583
Unmitigated	139.3395	1.5628	135.9644	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	30.0756					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	139.3395	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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	1.2926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.2999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.8698	4.0000e-004	0.4838	0.0000		6.1282	6.1282		6.0637	6.0637	0.0000	96,761.6471	96,761.6471	1.8546	1.7740	97,350.5223
Landscaping	4.0941	1.5624	135.4806	7.1500e-003		0.7485	0.7485		0.7485	0.7485		243.6963	243.6963	0.2352		248.6360
Total	110.5565	1.5628	135.9645	7.1500e-003		6.8767	6.8767		6.8122	6.8122	0.0000	97,005.3434	97,005.3434	2.0898	1.7740	97,599.1583

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
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10.0 Vegetation

Vista Del Agua
Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Trips and VMT -

Grading - - 275.38 acres per site plan

Architectural Coating - SCAQMD limits paints to 50g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF (w/30% reduction in trips from pass-bys) shopping ctr, 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 50g/L paint per SCAQMD rule 1113.

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - @0% reduction in water use inside and out per CalGreen

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	42.94	29.89

tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015	2.3851	26.6930	18.6754	0.0205	6.0165	1.3508	7.3673	3.1609	1.2427	4.4037	0.0000	1,942.237 2	1,942.237 2	0.5662	0.0000	1,954.127 8
2016	2.6220	22.0981	23.0889	0.0351	3.5581	1.0993	4.6574	1.5415	1.0201	2.5616	0.0000	3,011.136 1	3,011.136 1	0.4728	0.0000	3,021.064 4
2017	2.3968	15.5193	23.7458	0.0421	2.0691	0.7956	2.8647	0.5556	0.7453	1.3009	0.0000	3,386.813 0	3,386.813 0	0.3074	0.0000	3,393.268 1
2018	2.1327	13.8707	22.4309	0.0422	2.0771	0.6807	2.7577	0.5578	0.6380	1.1957	0.0000	3,315.829 8	3,315.829 8	0.2996	0.0000	3,322.120 3
2019	1.9344	12.5618	21.3561	0.0422	2.0770	0.5924	2.6694	0.5577	0.5552	1.1130	0.0000	3,234.803 6	3,234.803 6	0.2919	0.0000	3,240.934 0
2020	1.7450	11.2635	20.2278	0.0423	2.0849	0.5190	2.6039	0.5599	0.4865	1.0463	0.0000	3,155.282 8	3,155.282 8	0.2865	0.0000	3,161.299 3
2021	2.5143	5.2438	7.8507	0.0152	0.5035	0.2602	0.7638	0.1350	0.2414	0.3764	0.0000	1,190.024 5	1,190.024 5	0.2170	0.0000	1,194.581 0
2022	10.1235	0.6083	1.7500	4.9000e- 003	0.3242	0.0317	0.3558	0.0861	0.0315	0.1176	0.0000	327.4604	327.4604	0.0162	0.0000	327.8009
Total	25.8538	107.8583	139.1256	0.2444	18.7105	5.3295	24.0400	7.1544	4.9608	12.1151	0.0000	19,563.58 73	19,563.58 73	2.4576	0.0000	19,615.19 57

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	23.7957	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115
Energy	0.2460	2.1037	0.9085	0.0134		0.1699	0.1699		0.1699	0.1699	0.0000	6,801.5694	6,801.5694	0.2474	0.0862	6,833.4751
Mobile	9.3206	21.8924	102.9816	0.2475	15.8715	0.4847	16.3561	4.2440	0.4467	4.6907	0.0000	17,094.8395	17,094.8395	0.5116	0.0000	17,105.5830
Waste						0.0000	0.0000		0.0000	0.0000	362.4465	0.0000	362.4465	21.4200	0.0000	812.2659
Water						0.0000	0.0000		0.0000	0.0000	40.5122	782.9588	823.4711	4.1970	0.1057	944.3736
Total	33.3622	24.1368	116.1031	0.2616	15.8715	0.9732	16.8447	4.2440	0.9326	5.1766	402.9587	28,298.2729	28,701.2316	26.4642	0.2578	29,336.9092

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	19.4864	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115
Energy	0.1951	1.6684	0.7203	0.0106		0.1348	0.1348		0.1348	0.1348	0.0000	5,926.0460	5,926.0460	0.2207	0.0734	5,953.4311
Mobile	9.0979	20.1041	97.0792	0.2198	13.9986	0.4321	14.4307	3.7432	0.3982	4.1414	0.0000	15,177.5412	15,177.5412	0.4591	0.0000	15,187.1820
Waste						0.0000	0.0000		0.0000	0.0000	90.6116	0.0000	90.6116	5.3550	0.0000	203.0665
Water						0.0000	0.0000		0.0000	0.0000	32.4098	613.1551	645.5649	3.3570	0.0844	742.2353
Total	28.7793	21.9131	110.0126	0.2311	13.9986	0.8855	14.8841	3.7432	0.8489	4.5921	123.0214	25,335.6475	25,458.6689	9.4799	0.2238	25,727.1264

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.74	9.21	5.25	11.67	11.80	9.02	11.64	11.80	8.97	11.29	69.47	10.47	11.30	64.18	13.20	12.30

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	1,703.448 0
Total	1,703.448 0

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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					3.6418	0.0000	3.6418	1.9374	0.0000	1.9374	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0180	11.0082	8.2493	7.5700e-003		0.5976	0.5976		0.5498	0.5498	0.0000	721.7766	721.7766	0.2155	0.0000	726.3017
Total	1.0180	11.0082	8.2493	7.5700e-003	3.6418	0.5976	4.2394	1.9374	0.5498	2.4871	0.0000	721.7766	721.7766	0.2155	0.0000	726.3017

3.2 Site Preparation - 2015

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	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884
Total	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884

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					1.4203	0.0000	1.4203	0.7556	0.0000	0.7556	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0921	0.3191	4.1102	7.5700e-003		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	721.7758	721.7758	0.2155	0.0000	726.3009
Total	0.0921	0.3191	4.1102	7.5700e-003	1.4203	1.8400e-003	1.4222	0.7556	1.8400e-003	0.7574	0.0000	721.7758	721.7758	0.2155	0.0000	726.3009

3.2 Site Preparation - 2015

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	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884
Total	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884

3.3 Grading - 2015

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					2.3140	0.0000	2.3140	1.2075	0.0000	1.2075	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3415	15.6512	10.0663	0.0122		0.7528	0.7528		0.6926	0.6926	0.0000	1,165.0758	1,165.0758	0.3478	0.0000	1,172.3801
Total	1.3415	15.6512	10.0663	0.0122	2.3140	0.7528	3.0668	1.2075	0.6926	1.9001	0.0000	1,165.0758	1,165.0758	0.3478	0.0000	1,172.3801

3.3 Grading - 2015

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	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576
Total	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576

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					0.9025	0.0000	0.9025	0.4709	0.0000	0.4709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1498	0.5192	6.8862	0.0122		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	1,165.0744	1,165.0744	0.3478	0.0000	1,172.3787
Total	0.1498	0.5192	6.8862	0.0122	0.9025	3.0000e-003	0.9055	0.4709	3.0000e-003	0.4739	0.0000	1,165.0744	1,165.0744	0.3478	0.0000	1,172.3787

3.3 Grading - 2015

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	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	0.0000
Worker	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576	
Total	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576	

3.3 Grading - 2016

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					2.3140	0.0000	2.3140	1.2075	0.0000	1.2075	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0497	12.1198	7.9603	0.0100		0.5807	0.5807		0.5342	0.5342	0.0000	942.7708	942.7708	0.2844	0.0000	948.7426
Total	1.0497	12.1198	7.9603	0.0100	2.3140	0.5807	2.8946	1.2075	0.5342	1.7417	0.0000	942.7708	942.7708	0.2844	0.0000	948.7426

3.3 Grading - 2016

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	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393
Total	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393

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					0.9025	0.0000	0.9025	0.4709	0.0000	0.4709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1225	0.4248	5.6342	0.0100		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	942.7696	942.7696	0.2844	0.0000	948.7415
Total	0.1225	0.4248	5.6342	0.0100	0.9025	2.4500e-003	0.9049	0.4709	2.4500e-003	0.4734	0.0000	942.7696	942.7696	0.2844	0.0000	948.7415

3.3 Grading - 2016

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	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393
Total	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393

3.4 Building Construction - 2016

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	0.7817	6.5422	4.2473	6.1500e-003		0.4515	0.4515		0.4242	0.4242	0.0000	555.7425	555.7425	0.1378	0.0000	558.6370
Total	0.7817	6.5422	4.2473	6.1500e-003		0.4515	0.4515		0.4242	0.4242	0.0000	555.7425	555.7425	0.1378	0.0000	558.6370

3.4 Building Construction - 2016

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	0.0000
Vendor	0.3896	2.9100	5.2414	6.4600e-003	0.1872	0.0604	0.2476	0.0533	0.0556	0.1089	0.0000	584.1981	584.1981	4.0300e-003	0.0000	0.0000	584.2827
Worker	0.3909	0.5129	5.4977	0.0122	1.0303	6.5100e-003	1.0368	0.2736	5.9900e-003	0.2796	0.0000	905.0101	905.0101	0.0454	0.0000	0.0000	905.9628
Total	0.7805	3.4229	10.7392	0.0186	1.2175	0.0670	1.2845	0.3269	0.0616	0.3885	0.0000	1,489.2082	1,489.2082	0.0494	0.0000	0.0000	1,490.2454

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	0.0749	0.4092	3.9958	6.1500e-003		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	555.7418	555.7418	0.1378	0.0000	0.0000	558.6363
Total	0.0749	0.4092	3.9958	6.1500e-003		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	555.7418	555.7418	0.1378	0.0000	0.0000	558.6363

3.4 Building Construction - 2016**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	0.3896	2.9100	5.2414	6.4600e-003	0.1872	0.0604	0.2476	0.0533	0.0556	0.1089	0.0000	584.1981	584.1981	4.0300e-003	0.0000	584.2827
Worker	0.3909	0.5129	5.4977	0.0122	1.0303	6.5100e-003	1.0368	0.2736	5.9900e-003	0.2796	0.0000	905.0101	905.0101	0.0454	0.0000	905.9628
Total	0.7805	3.4229	10.7392	0.0186	1.2175	0.0670	1.2845	0.3269	0.0616	0.3885	0.0000	1,489.2082	1,489.2082	0.0494	0.0000	1,490.2454

3.4 Building Construction - 2017**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	1.2099	10.2982	7.0704	0.0105		0.6947	0.6947		0.6525	0.6525	0.0000	933.9685	933.9685	0.2299	0.0000	938.7957
Total	1.2099	10.2982	7.0704	0.0105		0.6947	0.6947		0.6525	0.6525	0.0000	933.9685	933.9685	0.2299	0.0000	938.7957

3.4 Building Construction - 2017

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	0.5915	4.4354	8.2534	0.0110	0.3183	0.0900	0.4083	0.0906	0.0828	0.1734	0.0000	976.6018	976.6018	6.4300e-003	0.0000	976.7369
Worker	0.5954	0.7857	8.4220	0.0206	1.7508	0.0109	1.7617	0.4650	0.0100	0.4750	0.0000	1,476.2426	1,476.2426	0.0711	0.0000	1,477.7355
Total	1.1869	5.2210	16.6755	0.0316	2.0691	0.1009	2.1700	0.5556	0.0928	0.6484	0.0000	2,452.8444	2,452.8444	0.0775	0.0000	2,454.4724

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	0.1273	0.6954	6.7903	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	933.9674	933.9674	0.2299	0.0000	938.7946
Total	0.1273	0.6954	6.7903	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	933.9674	933.9674	0.2299	0.0000	938.7946

3.4 Building Construction - 2017

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	0.5915	4.4354	8.2534	0.0110	0.3183	0.0900	0.4083	0.0906	0.0828	0.1734	0.0000	976.6018	976.6018	6.4300e-003	0.0000	976.7369
Worker	0.5954	0.7857	8.4220	0.0206	1.7508	0.0109	1.7617	0.4650	0.0100	0.4750	0.0000	1,476.2426	1,476.2426	0.0711	0.0000	1,477.7355
Total	1.1869	5.2210	16.6755	0.0316	2.0691	0.1009	2.1700	0.5556	0.0928	0.6484	0.0000	2,452.8444	2,452.8444	0.0775	0.0000	2,454.4724

3.4 Building Construction - 2018

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	1.0448	9.1066	6.8640	0.0105		0.5850	0.5850		0.5500	0.5500	0.0000	926.9533	926.9533	0.2268	0.0000	931.7170
Total	1.0448	9.1066	6.8640	0.0105		0.5850	0.5850		0.5500	0.5500	0.0000	926.9533	926.9533	0.2268	0.0000	931.7170

3.4 Building Construction - 2018

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	0.5499	4.0476	7.8928	0.0110	0.3195	0.0848	0.4043	0.0910	0.0780	0.1690	0.0000	963.5545	963.5545	6.3300e-003	0.0000	963.6874
Worker	0.5381	0.7165	7.6740	0.0207	1.7576	0.0108	1.7684	0.4668	0.0100	0.4768	0.0000	1,425.3220	1,425.3220	0.0664	0.0000	1,426.7159
Total	1.0879	4.7640	15.5669	0.0317	2.0770	0.0956	2.1727	0.5578	0.0880	0.6458	0.0000	2,388.8765	2,388.8765	0.0727	0.0000	2,390.4033

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	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	926.9522	926.9522	0.2268	0.0000	931.7159
Total	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	926.9522	926.9522	0.2268	0.0000	931.7159

3.4 Building Construction - 2018

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	0.5499	4.0476	7.8928	0.0110	0.3195	0.0848	0.4043	0.0910	0.0780	0.1690	0.0000	963.5545	963.5545	6.3300e-003	0.0000	963.6874
Worker	0.5381	0.7165	7.6740	0.0207	1.7576	0.0108	1.7684	0.4668	0.0100	0.4768	0.0000	1,425.3220	1,425.3220	0.0664	0.0000	1,426.7159
Total	1.0879	4.7640	15.5669	0.0317	2.0770	0.0956	2.1727	0.5578	0.0880	0.6458	0.0000	2,388.8765	2,388.8765	0.0727	0.0000	2,390.4033

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9207	8.2078	6.7026	0.0105		0.5031	0.5031		0.4730	0.4730	0.0000	916.5906	916.5906	0.2230	0.0000	921.2739
Total	0.9207	8.2078	6.7026	0.0105		0.5031	0.5031		0.4730	0.4730	0.0000	916.5906	916.5906	0.2230	0.0000	921.2739

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5186	3.6968	7.5434	0.0110	0.3194	0.0783	0.3977	0.0910	0.0720	0.1630	0.0000	946.6039	946.6039	6.2200e-003	0.0000	946.7345
Worker	0.4951	0.6571	7.1101	0.0207	1.7576	0.0110	1.7686	0.4668	0.0102	0.4770	0.0000	1,371.6091	1,371.6091	0.0627	0.0000	1,372.9257
Total	1.0137	4.3539	14.6535	0.0317	2.0770	0.0893	2.1663	0.5577	0.0822	0.6399	0.0000	2,318.2130	2,318.2130	0.0689	0.0000	2,319.6602

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	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	916.5896	916.5896	0.2230	0.0000	921.2728
Total	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	916.5896	916.5896	0.2230	0.0000	921.2728

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5186	3.6968	7.5434	0.0110	0.3194	0.0783	0.3977	0.0910	0.0720	0.1630	0.0000	946.6039	946.6039	6.2200e-003	0.0000	946.7345
Worker	0.4951	0.6571	7.1101	0.0207	1.7576	0.0110	1.7686	0.4668	0.0102	0.4770	0.0000	1,371.6091	1,371.6091	0.0627	0.0000	1,372.9257
Total	1.0137	4.3539	14.6535	0.0317	2.0770	0.0893	2.1663	0.5577	0.0822	0.6399	0.0000	2,318.2130	2,318.2130	0.0689	0.0000	2,319.6602

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8297	7.5000	6.6057	0.0105		0.4374	0.4374		0.4113	0.4113	0.0000	906.4541	906.4541	0.2208	0.0000	911.0918
Total	0.8297	7.5000	6.6057	0.0105		0.4374	0.4374		0.4113	0.4113	0.0000	906.4541	906.4541	0.2208	0.0000	911.0918

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4525	3.1519	6.9808	0.0110	0.3206	0.0705	0.3911	0.0913	0.0649	0.1562	0.0000	928.2283	928.2283	5.9900e-003	0.0000	0.0000	928.3540
Worker	0.4628	0.6116	6.6413	0.0208	1.7643	0.0111	1.7754	0.4686	0.0103	0.4789	0.0000	1,320.6005	1,320.6005	0.0597	0.0000	0.0000	1,321.8534
Total	0.9152	3.7635	13.6221	0.0318	2.0849	0.0816	2.1666	0.5599	0.0752	0.6350	0.0000	2,248.8287	2,248.8287	0.0657	0.0000	0.0000	2,250.2075

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	0.1283	0.7008	6.8425	0.0105		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	906.4530	906.4530	0.2208	0.0000	0.0000	911.0907
Total	0.1283	0.7008	6.8425	0.0105		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	906.4530	906.4530	0.2208	0.0000	0.0000	911.0907

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4525	3.1519	6.9808	0.0110	0.3206	0.0705	0.3911	0.0913	0.0649	0.1562	0.0000	928.2283	928.2283	5.9900e-003	0.0000	928.3540
Worker	0.4628	0.6116	6.6413	0.0208	1.7643	0.0111	1.7754	0.4686	0.0103	0.4789	0.0000	1,320.6005	1,320.6005	0.0597	0.0000	1,321.8534
Total	0.9152	3.7635	13.6221	0.0318	2.0849	0.0816	2.1666	0.5599	0.0752	0.6350	0.0000	2,248.8287	2,248.8287	0.0657	0.0000	2,250.2075

3.4 Building Construction - 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					
Off-Road	0.1477	1.3525	1.2899	2.0900e-003		0.0745	0.0745		0.0700	0.0700	0.0000	179.9283	179.9283	0.0434	0.0000	180.8386
Total	0.1477	1.3525	1.2899	2.0900e-003		0.0745	0.0745		0.0700	0.0700	0.0000	179.9283	179.9283	0.0434	0.0000	180.8386

3.4 Building Construction - 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	0.0831	0.5141	1.3148	2.1700e-003	0.0636	0.0121	0.0757	0.0181	0.0111	0.0292	0.0000	183.9950	183.9950	1.2000e-003	0.0000	184.0203
Worker	0.0867	0.1137	1.2527	4.1300e-003	0.3502	2.2600e-003	0.3524	0.0930	2.1000e-003	0.0951	0.0000	258.0792	258.0792	0.0115	0.0000	258.3199
Total	0.1698	0.6278	2.5675	6.3000e-003	0.4138	0.0143	0.4281	0.1111	0.0132	0.1243	0.0000	442.0742	442.0742	0.0127	0.0000	442.3402

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	0.0255	0.1391	1.3581	2.0900e-003		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	179.9281	179.9281	0.0434	0.0000	180.8384
Total	0.0255	0.1391	1.3581	2.0900e-003		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	179.9281	179.9281	0.0434	0.0000	180.8384

3.4 Building Construction - 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	0.0831	0.5141	1.3148	2.1700e-003	0.0636	0.0121	0.0757	0.0181	0.0111	0.0292	0.0000	183.9950	183.9950	1.2000e-003	0.0000	184.0203
Worker	0.0867	0.1137	1.2527	4.1300e-003	0.3502	2.2600e-003	0.3524	0.0930	2.1000e-003	0.0951	0.0000	258.0792	258.0792	0.0115	0.0000	258.3199
Total	0.1698	0.6278	2.5675	6.3000e-003	0.4138	0.0143	0.4281	0.1111	0.0132	0.1243	0.0000	442.0742	442.0742	0.0127	0.0000	442.3402

3.5 Paving - 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					
Off-Road	0.3046	3.1335	3.5523	5.5200e-003		0.1646	0.1646		0.1515	0.1515	0.0000	485.0378	485.0378	0.1569	0.0000	488.3321
Paving	0.0347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.3393	3.1335	3.5523	5.5200e-003		0.1646	0.1646		0.1515	0.1515	0.0000	485.0378	485.0378	0.1569	0.0000	488.3321

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321
Total	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321

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	0.0679	0.2355	4.1896	5.5200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	485.0372	485.0372	0.1569	0.0000	488.3315
Paving	0.0347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1026	0.2355	4.1896	5.5200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	485.0372	485.0372	0.1569	0.0000	488.3315

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321
Total	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321

3.6 Architectural Coating - 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					
Archit. Coating	1.8210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1008	0.1200	2.0000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8758
Total	1.8354	0.1008	0.1200	2.0000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8758

3.6 Architectural Coating - 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	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623
Total	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623

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	1.8210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	6.8000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8757
Total	1.8229	6.8000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8757

3.6 Architectural Coating - 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	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623
Total	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623

3.6 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	9.9738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.5092	0.6556	1.0700e-003		0.0295	0.0295		0.0295	0.0295	0.0000	92.3001	92.3001	6.0100e-003	0.0000	92.4263
Total	10.0478	0.5092	0.6556	1.0700e-003		0.0295	0.0295		0.0295	0.0295	0.0000	92.3001	92.3001	6.0100e-003	0.0000	92.4263

3.6 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	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746
Total	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746

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	9.9738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0372	0.6624	1.0700e-003		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	92.3000	92.3000	6.0100e-003	0.0000	92.4262
Total	9.9846	0.0372	0.6624	1.0700e-003		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	92.3000	92.3000	6.0100e-003	0.0000	92.4262

3.6 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	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746
Total	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	9.0979	20.1041	97.0792	0.2198	13.9986	0.4321	14.4307	3.7432	0.3982	4.1414	0.0000	15,177.54 12	15,177.54 12	0.4591	0.0000	15,187.18 20
Unmitigated	9.3206	21.8924	102.9816	0.2475	15.8715	0.4847	16.3561	4.2440	0.4467	4.6907	0.0000	17,094.83 95	17,094.83 95	0.5116	0.0000	17,105.58 30

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479334	0.061620	0.171239	0.155613	0.034509	0.006445	0.010737	0.070109	0.001118	0.001845	0.004327	0.000443	0.002660

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	3,995.6518	3,995.6518	0.1837	0.0380	4,011.2888
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,367.4522	4,367.4522	0.2008	0.0415	4,384.5443
NaturalGas Mitigated	0.1951	1.6684	0.7203	0.0106		0.1348	0.1348		0.1348	0.1348	0.0000	1,930.3942	1,930.3942	0.0370	0.0354	1,942.1422
NaturalGas Unmitigated	0.2460	2.1037	0.9085	0.0134		0.1699	0.1699		0.1699	0.1699	0.0000	2,434.1172	2,434.1172	0.0467	0.0446	2,448.9308

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						
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	0.0000
Condo/Townhouse	5.41925e+006	0.0292	0.2497	0.1063	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.1921	289.1921	5.5400e-003	5.3000e-003	290.9520	
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	0.0000
Parking Lot	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	0.0000
Regional Shopping Center	208939	1.1300e-003	0.0102	8.6000e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1498	11.1498	2.1000e-004	2.0000e-004	11.2177	
Regional Shopping Center	443909	2.3900e-003	0.0218	0.0183	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.6887	23.6887	4.5000e-004	4.3000e-004	23.8328	
Single Family Housing	1.55328e+007	0.0838	0.7157	0.3046	4.5700e-003		0.0579	0.0579		0.0579	0.0579	0.0000	828.8885	828.8885	0.0159	0.0152	833.9329	
Single Family Housing	2.02602e+006	0.0109	0.0934	0.0397	6.0000e-004		7.5500e-003	7.5500e-003		7.5500e-003	7.5500e-003	0.0000	108.1159	108.1159	2.0700e-003	1.9800e-003	108.7739	
Single Family Housing	8.44173e+006	0.0455	0.3890	0.1655	2.4800e-003		0.0315	0.0315		0.0315	0.0315	0.0000	450.4829	450.4829	8.6300e-003	8.2600e-003	453.2244	
Single Family Housing	8.7794e+006	0.0473	0.4045	0.1722	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.5022	468.5022	8.9800e-003	8.5900e-003	471.3534	
Apartments Low Rise	2.00344e+006	0.0108	0.0923	0.0393	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003	0.0000	106.9113	106.9113	2.0500e-003	1.9600e-003	107.5619	
Apartments Low Rise	2.75816e+006	0.0149	0.1271	0.0541	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.1860	147.1860	2.8200e-003	2.7000e-003	148.0818	
Total		0.2460	2.1037	0.9085	0.0134		0.1699	0.1699		0.1699	0.1699	0.0000	2,434.1172	2,434.1172	0.0466	0.0446	2,448.9308	

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					
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
Condo/Townhouse	4.25847e+006	0.0230	0.1962	0.0835	1.2500e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.2481	227.2481	4.3600e-003	4.1700e-003	228.6311
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
Parking Lot	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
Regional Shopping Center	163459	8.8000e-004	8.0100e-003	6.7300e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7228	8.7228	1.7000e-004	1.6000e-004	8.7759
Regional Shopping Center	347282	1.8700e-003	0.0170	0.0143	1.0000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	18.5323	18.5323	3.6000e-004	3.4000e-004	18.6451
Single Family Housing	1.23339e+007	0.0665	0.5683	0.2418	3.6300e-003		0.0460	0.0460		0.0460	0.0460	0.0000	658.1814	658.1814	0.0126	0.0121	662.1870
Single Family Housing	1.60876e+006	8.6700e-003	0.0741	0.0315	4.7000e-004		5.9900e-003	5.9900e-003		5.9900e-003	5.9900e-003	0.0000	85.8498	85.8498	1.6500e-003	1.5700e-003	86.3722
Single Family Housing	6.70318e+006	0.0361	0.3089	0.1314	1.9700e-003		0.0250	0.0250		0.0250	0.0250	0.0000	357.7073	357.7073	6.8600e-003	6.5600e-003	359.8842
Single Family Housing	6.97131e+006	0.0376	0.3212	0.1367	2.0500e-003		0.0260	0.0260		0.0260	0.0260	0.0000	372.0156	372.0156	7.1300e-003	6.8200e-003	374.2796
Apartments Low Rise	1.59376e+006	8.5900e-003	0.0734	0.0313	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0490	85.0490	1.6300e-003	1.5600e-003	85.5666
Apartments Low Rise	2.19415e+006	0.0118	0.1011	0.0430	6.5000e-004		8.1700e-003	8.1700e-003		8.1700e-003	8.1700e-003	0.0000	117.0880	117.0880	2.2400e-003	2.1500e-003	117.8006
Total		0.1950	1.6683	0.7203	0.0106		0.1348	0.1348		0.1348	0.1348	0.0000	1,930.3942	1,930.3942	0.0370	0.0354	1,942.1422

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	595362	170.3728	7.8300e-003	1.6200e-003	171.0396
Apartments Low Rise	819642	234.5544	0.0108	2.2300e-003	235.4723
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.28252e+006	367.0146	0.0169	3.4900e-003	368.4509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	247630	70.8635	3.2600e-003	6.7000e-004	71.1408
Regional Shopping Center	1.41034e+006	403.5925	0.0186	3.8400e-003	405.1720
Regional Shopping Center	2.99638e+006	857.4660	0.0394	8.1500e-003	860.8217
Single Family Housing	1.91991e+006	549.4147	0.0253	5.2300e-003	551.5648
Single Family Housing	1.99671e+006	571.3913	0.0263	5.4300e-003	573.6274
Single Family Housing	3.53263e+006	1,010.9230	0.0465	9.6100e-003	1,014.8793
Single Family Housing	460778	131.8595	6.0600e-003	1.2500e-003	132.3756
Total		4,367.4522	0.2008	0.0415	4,384.5443

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	548754	157.0354	7.2200e-003	1.4900e-003	157.6499
Apartments Low Rise	755477	216.1925	9.9400e-003	2.0600e-003	217.0386
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.18178e+006	338.1875	0.0156	3.2200e-003	339.5111
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	235248	67.3203	3.0900e-003	6.4000e-004	67.5838
Regional Shopping Center	1.24994e+006	357.6922	0.0164	3.4000e-003	359.0921
Regional Shopping Center	2.65561e+006	759.9470	0.0349	7.2300e-003	762.9211
Single Family Housing	1.78055e+006	509.5332	0.0234	4.8500e-003	511.5273
Single Family Housing	1.85177e+006	529.9145	0.0244	5.0400e-003	531.9884
Single Family Housing	3.2762e+006	937.5411	0.0431	8.9200e-003	941.2102
Single Family Housing	427331	122.2880	5.6200e-003	1.1600e-003	122.7666
Total		3,995.6518	0.1837	0.0380	4,011.2888

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	19.4864	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115
Unmitigated	23.7957	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115

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	5.4888					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3637	2.0000e-005	0.0198	0.0000		0.2513	0.2513		0.2486	0.2486	0.0000	3,599.0083	3,599.0083	0.0690	0.0660	3,620.9112
Landscaping	0.3685	0.1406	12.1933	6.4000e-004		0.0674	0.0674		0.0674	0.0674	0.0000	19.8970	19.8970	0.0192	0.0000	20.3003
Total	23.7957	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115

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	1.1795					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3637	2.0000e-005	0.0198	0.0000		0.2513	0.2513		0.2486	0.2486	0.0000	3,599.0083	3,599.0083	0.0690	0.0660	3,620.9112
Landscaping	0.3685	0.1406	12.1933	6.4000e-004		0.0674	0.0674		0.0674	0.0674	0.0000	19.8970	19.8970	0.0192	0.0000	20.3003
Total	19.4864	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	645.5649	3.3570	0.0844	742.2353
Unmitigated	823.4711	4.1970	0.1057	944.3736

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	22.6084 / 14.2532	136.7310	0.7427	0.0186	158.1011
City Park	0 / 16.4663	52.3515	2.4100e-003	5.0000e-004	52.5563
Condo/Townhouse	17.1355 / 10.8028	103.6318	0.5629	0.0141	119.8288
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	20.844 / 12.7754	124.8982	0.6846	0.0172	144.5960
Single Family Housing	67.1086 / 42.3076	405.8585	2.2044	0.0553	469.2914
Total		823.4710	4.1970	0.1057	944.3736

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	18.0868 / 11.4025	107.0456	0.5940	0.0149	124.1326
City Park	0 / 13.173	41.8812	1.9300e-003	4.0000e-004	42.0451
Condo/Townhouse	13.7084 / 8.64226	81.1326	0.4502	0.0113	94.0832
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	16.6752 / 10.2203	97.7620	0.5476	0.0137	113.5118
Single Family Housing	53.6869 / 33.8461	317.7435	1.7632	0.0442	368.4627
Total		645.5649	3.3570	0.0844	742.2353

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6116	5.3550	0.0000	203.0665
Unmitigated	362.4465	21.4200	0.0000	812.2659

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	159.62	32.4014	1.9149	0.0000	72.6137
City Park	1.19	0.2416	0.0143	0.0000	0.5414
Condo/Townhouse	120.98	24.5579	1.4513	0.0000	55.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	295.47	59.9777	3.5446	0.0000	134.4140
Single Family Housing	1208.27	245.2679	14.4949	0.0000	549.6612
Total		362.4465	21.4200	0.0000	812.2659

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	39.905	8.1004	0.4787	0.0000	18.1534
City Park	0.2975	0.0604	3.5700e-003	0.0000	0.1353
Condo/Townhouse	30.245	6.1395	0.3628	0.0000	13.7589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	73.8675	14.9944	0.8862	0.0000	33.6035
Single Family Housing	302.068	61.3170	3.6237	0.0000	137.4153
Total		90.6116	5.3550	0.0000	203.0665

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	1,703.448 0	0.0000	0.0000	1,703.448 0

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2406	1,703.448 0	0.0000	0.0000	1,703.448 0
Total		1,703.448 0	0.0000	0.0000	1,703.448 0

**Vista Del Agua PAINT MIT 10g/L
Riverside-Salton Sea County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - For construction and operational architectural coating mitigation limiting paints to 10g/L VOC

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
 To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Trips and VMT -

Grading - - 275.38 acres per site plan

Architectural Coating - limits paints to 10g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF (w/30% reduction in trips from pass-bys) shopping ctr, 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 10g/L paint

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - 20% reduction in water use inide and out per CalGreen

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00

tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	10
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81

tblVehicleTrips	WD_TR	42.94	29.89
tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015	2.3851	26.6930	18.6754	0.0205	6.0165	1.3508	7.3673	3.1609	1.2427	4.4037	0.0000	1,942.237 2	1,942.237 2	0.5662	0.0000	1,954.127 8
2016	2.6220	22.0981	23.0889	0.0351	3.5581	1.0993	4.6574	1.5415	1.0201	2.5616	0.0000	3,011.136 1	3,011.136 1	0.4728	0.0000	3,021.064 4
2017	2.3968	15.5193	23.7458	0.0421	2.0691	0.7956	2.8647	0.5556	0.7453	1.3009	0.0000	3,386.813 0	3,386.813 0	0.3074	0.0000	3,393.268 1
2018	2.1327	13.8707	22.4309	0.0422	2.0771	0.6807	2.7577	0.5578	0.6380	1.1957	0.0000	3,315.829 8	3,315.829 8	0.2996	0.0000	3,322.120 3
2019	1.9344	12.5618	21.3561	0.0422	2.0770	0.5924	2.6694	0.5577	0.5552	1.1130	0.0000	3,234.803 6	3,234.803 6	0.2919	0.0000	3,240.934 0
2020	1.7450	11.2635	20.2278	0.0423	2.0849	0.5190	2.6039	0.5599	0.4865	1.0463	0.0000	3,155.282 8	3,155.282 8	0.2865	0.0000	3,161.299 3
2021	1.0576	5.2438	7.8507	0.0152	0.5035	0.2602	0.7638	0.1350	0.2414	0.3764	0.0000	1,190.024 5	1,190.024 5	0.2170	0.0000	1,194.581 0
2022	2.1444	0.6083	1.7500	4.9000e- 003	0.3242	0.0317	0.3558	0.0861	0.0315	0.1176	0.0000	327.4604	327.4604	0.0162	0.0000	327.8009
Total	16.4179	107.8583	139.1256	0.2444	18.7105	5.3295	24.0400	7.1544	4.9608	12.1151	0.0000	19,563.58 73	19,563.58 73	2.4576	0.0000	19,615.19 57

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	23.7957	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115
Energy	0.2460	2.1037	0.9085	0.0134		0.1699	0.1699		0.1699	0.1699	0.0000	6,801.5694	6,801.5694	0.2474	0.0862	6,833.4751
Mobile	9.3206	21.8924	102.9816	0.2475	15.8715	0.4847	16.3561	4.2440	0.4467	4.6907	0.0000	17,094.8395	17,094.8395	0.5116	0.0000	17,105.5830
Waste						0.0000	0.0000		0.0000	0.0000	362.4465	0.0000	362.4465	21.4200	0.0000	812.2659
Water						0.0000	0.0000		0.0000	0.0000	40.5122	782.9588	823.4711	4.1970	0.1057	944.3736
Total	33.3622	24.1368	116.1031	0.2616	15.8715	0.9732	16.8447	4.2440	0.9326	5.1766	402.9587	28,298.2729	28,701.2316	26.4642	0.2578	29,336.9092

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	18.5428	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115
Energy	0.1951	1.6684	0.7203	0.0106		0.1348	0.1348		0.1348	0.1348	0.0000	5,926.0460	5,926.0460	0.2207	0.0734	5,953.4311
Mobile	9.0979	20.1041	97.0792	0.2198	13.9986	0.4321	14.4307	3.7432	0.3982	4.1414	0.0000	15,177.5412	15,177.5412	0.4591	0.0000	15,187.1820
Waste						0.0000	0.0000		0.0000	0.0000	90.6116	0.0000	90.6116	5.3550	0.0000	203.0665
Water						0.0000	0.0000		0.0000	0.0000	32.4098	613.1551	645.5649	3.3570	0.0844	742.2353
Total	27.8357	21.9131	110.0126	0.2311	13.9986	0.8855	14.8841	3.7432	0.8489	4.5921	123.0214	25,335.6475	25,458.6689	9.4799	0.2238	25,727.1264

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.57	9.21	5.25	11.67	11.80	9.02	11.64	11.80	8.97	11.29	69.47	10.47	11.30	64.18	13.20	12.30

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	1,703.448 0
Total	1,703.448 0

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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					3.6418	0.0000	3.6418	1.9374	0.0000	1.9374	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0180	11.0082	8.2493	7.5700e-003		0.5976	0.5976		0.5498	0.5498	0.0000	721.7766	721.7766	0.2155	0.0000	726.3017
Total	1.0180	11.0082	8.2493	7.5700e-003	3.6418	0.5976	4.2394	1.9374	0.5498	2.4871	0.0000	721.7766	721.7766	0.2155	0.0000	726.3017

3.2 Site Preparation - 2015

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	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884
Total	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884

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					1.4203	0.0000	1.4203	0.7556	0.0000	0.7556	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0921	0.3191	4.1102	7.5700e-003		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	721.7758	721.7758	0.2155	0.0000	726.3009
Total	0.0921	0.3191	4.1102	7.5700e-003	1.4203	1.8400e-003	1.4222	0.7556	1.8400e-003	0.7574	0.0000	721.7758	721.7758	0.2155	0.0000	726.3009

3.2 Site Preparation - 2015

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	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884
Total	0.0119	0.0156	0.1667	3.3000e-004	0.0281	1.8000e-004	0.0283	7.4700e-003	1.7000e-004	7.6400e-003	0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884

3.3 Grading - 2015

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					2.3140	0.0000	2.3140	1.2075	0.0000	1.2075	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3415	15.6512	10.0663	0.0122		0.7528	0.7528		0.6926	0.6926	0.0000	1,165.0758	1,165.0758	0.3478	0.0000	1,172.3801
Total	1.3415	15.6512	10.0663	0.0122	2.3140	0.7528	3.0668	1.2075	0.6926	1.9001	0.0000	1,165.0758	1,165.0758	0.3478	0.0000	1,172.3801

3.3 Grading - 2015

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	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	0.0000
Worker	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576	
Total	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576	

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					0.9025	0.0000	0.9025	0.4709	0.0000	0.4709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1498	0.5192	6.8862	0.0122		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	1,165.0744	1,165.0744	0.3478	0.0000	1,172.3787
Total	0.1498	0.5192	6.8862	0.0122	0.9025	3.0000e-003	0.9055	0.4709	3.0000e-003	0.4739	0.0000	1,165.0744	1,165.0744	0.3478	0.0000	1,172.3787

3.3 Grading - 2015

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	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576
Total	0.0138	0.0181	0.1931	3.8000e-004	0.0326	2.1000e-004	0.0328	8.6500e-003	2.0000e-004	8.8500e-003	0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576

3.3 Grading - 2016

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					2.3140	0.0000	2.3140	1.2075	0.0000	1.2075	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0497	12.1198	7.9603	0.0100		0.5807	0.5807		0.5342	0.5342	0.0000	942.7708	942.7708	0.2844	0.0000	948.7426
Total	1.0497	12.1198	7.9603	0.0100	2.3140	0.5807	2.8946	1.2075	0.5342	1.7417	0.0000	942.7708	942.7708	0.2844	0.0000	948.7426

3.3 Grading - 2016

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	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393
Total	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393

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					0.9025	0.0000	0.9025	0.4709	0.0000	0.4709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1225	0.4248	5.6342	0.0100		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	942.7696	942.7696	0.2844	0.0000	948.7415
Total	0.1225	0.4248	5.6342	0.0100	0.9025	2.4500e-003	0.9049	0.4709	2.4500e-003	0.4734	0.0000	942.7696	942.7696	0.2844	0.0000	948.7415

3.3 Grading - 2016

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	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393
Total	0.0101	0.0133	0.1422	3.1000e-004	0.0267	1.7000e-004	0.0268	7.0800e-003	1.5000e-004	7.2300e-003	0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393

3.4 Building Construction - 2016

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	0.7817	6.5422	4.2473	6.1500e-003		0.4515	0.4515		0.4242	0.4242	0.0000	555.7425	555.7425	0.1378	0.0000	558.6370
Total	0.7817	6.5422	4.2473	6.1500e-003		0.4515	0.4515		0.4242	0.4242	0.0000	555.7425	555.7425	0.1378	0.0000	558.6370

3.4 Building Construction - 2016

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	0.0000
Vendor	0.3896	2.9100	5.2414	6.4600e-003	0.1872	0.0604	0.2476	0.0533	0.0556	0.1089	0.0000	584.1981	584.1981	4.0300e-003	0.0000	0.0000	584.2827
Worker	0.3909	0.5129	5.4977	0.0122	1.0303	6.5100e-003	1.0368	0.2736	5.9900e-003	0.2796	0.0000	905.0101	905.0101	0.0454	0.0000	0.0000	905.9628
Total	0.7805	3.4229	10.7392	0.0186	1.2175	0.0670	1.2845	0.3269	0.0616	0.3885	0.0000	1,489.2082	1,489.2082	0.0494	0.0000	0.0000	1,490.2454

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	0.0749	0.4092	3.9958	6.1500e-003		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	555.7418	555.7418	0.1378	0.0000	0.0000	558.6363
Total	0.0749	0.4092	3.9958	6.1500e-003		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	555.7418	555.7418	0.1378	0.0000	0.0000	558.6363

3.4 Building Construction - 2016

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	0.3896	2.9100	5.2414	6.4600e-003	0.1872	0.0604	0.2476	0.0533	0.0556	0.1089	0.0000	584.1981	584.1981	4.0300e-003	0.0000	584.2827
Worker	0.3909	0.5129	5.4977	0.0122	1.0303	6.5100e-003	1.0368	0.2736	5.9900e-003	0.2796	0.0000	905.0101	905.0101	0.0454	0.0000	905.9628
Total	0.7805	3.4229	10.7392	0.0186	1.2175	0.0670	1.2845	0.3269	0.0616	0.3885	0.0000	1,489.2082	1,489.2082	0.0494	0.0000	1,490.2454

3.4 Building Construction - 2017

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	1.2099	10.2982	7.0704	0.0105		0.6947	0.6947		0.6525	0.6525	0.0000	933.9685	933.9685	0.2299	0.0000	938.7957
Total	1.2099	10.2982	7.0704	0.0105		0.6947	0.6947		0.6525	0.6525	0.0000	933.9685	933.9685	0.2299	0.0000	938.7957

3.4 Building Construction - 2017

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	0.5915	4.4354	8.2534	0.0110	0.3183	0.0900	0.4083	0.0906	0.0828	0.1734	0.0000	976.6018	976.6018	6.4300e-003	0.0000	976.7369
Worker	0.5954	0.7857	8.4220	0.0206	1.7508	0.0109	1.7617	0.4650	0.0100	0.4750	0.0000	1,476.2426	1,476.2426	0.0711	0.0000	1,477.7355
Total	1.1869	5.2210	16.6755	0.0316	2.0691	0.1009	2.1700	0.5556	0.0928	0.6484	0.0000	2,452.8444	2,452.8444	0.0775	0.0000	2,454.4724

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	0.1273	0.6954	6.7903	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	933.9674	933.9674	0.2299	0.0000	938.7946
Total	0.1273	0.6954	6.7903	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	933.9674	933.9674	0.2299	0.0000	938.7946

3.4 Building Construction - 2017

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	0.5915	4.4354	8.2534	0.0110	0.3183	0.0900	0.4083	0.0906	0.0828	0.1734	0.0000	976.6018	976.6018	6.4300e-003	0.0000	976.7369
Worker	0.5954	0.7857	8.4220	0.0206	1.7508	0.0109	1.7617	0.4650	0.0100	0.4750	0.0000	1,476.2426	1,476.2426	0.0711	0.0000	1,477.7355
Total	1.1869	5.2210	16.6755	0.0316	2.0691	0.1009	2.1700	0.5556	0.0928	0.6484	0.0000	2,452.8444	2,452.8444	0.0775	0.0000	2,454.4724

3.4 Building Construction - 2018

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	1.0448	9.1066	6.8640	0.0105		0.5850	0.5850		0.5500	0.5500	0.0000	926.9533	926.9533	0.2268	0.0000	931.7170
Total	1.0448	9.1066	6.8640	0.0105		0.5850	0.5850		0.5500	0.5500	0.0000	926.9533	926.9533	0.2268	0.0000	931.7170

3.4 Building Construction - 2018

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	0.0000
Vendor	0.5499	4.0476	7.8928	0.0110	0.3195	0.0848	0.4043	0.0910	0.0780	0.1690	0.0000	963.5545	963.5545	6.3300e-003	0.0000	0.0000	963.6874
Worker	0.5381	0.7165	7.6740	0.0207	1.7576	0.0108	1.7684	0.4668	0.0100	0.4768	0.0000	1,425.3220	1,425.3220	0.0664	0.0000	0.0000	1,426.7159
Total	1.0879	4.7640	15.5669	0.0317	2.0770	0.0956	2.1727	0.5578	0.0880	0.6458	0.0000	2,388.8765	2,388.8765	0.0727	0.0000	0.0000	2,390.4033

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	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	926.9522	926.9522	0.2268	0.0000	0.0000	931.7159
Total	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	926.9522	926.9522	0.2268	0.0000	0.0000	931.7159

3.4 Building Construction - 2018**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	0.5499	4.0476	7.8928	0.0110	0.3195	0.0848	0.4043	0.0910	0.0780	0.1690	0.0000	963.5545	963.5545	6.3300e-003	0.0000	963.6874
Worker	0.5381	0.7165	7.6740	0.0207	1.7576	0.0108	1.7684	0.4668	0.0100	0.4768	0.0000	1,425.3220	1,425.3220	0.0664	0.0000	1,426.7159
Total	1.0879	4.7640	15.5669	0.0317	2.0770	0.0956	2.1727	0.5578	0.0880	0.6458	0.0000	2,388.8765	2,388.8765	0.0727	0.0000	2,390.4033

3.4 Building Construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.9207	8.2078	6.7026	0.0105		0.5031	0.5031		0.4730	0.4730	0.0000	916.5906	916.5906	0.2230	0.0000	921.2739
Total	0.9207	8.2078	6.7026	0.0105		0.5031	0.5031		0.4730	0.4730	0.0000	916.5906	916.5906	0.2230	0.0000	921.2739

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5186	3.6968	7.5434	0.0110	0.3194	0.0783	0.3977	0.0910	0.0720	0.1630	0.0000	946.6039	946.6039	6.2200e-003	0.0000	946.7345
Worker	0.4951	0.6571	7.1101	0.0207	1.7576	0.0110	1.7686	0.4668	0.0102	0.4770	0.0000	1,371.6091	1,371.6091	0.0627	0.0000	1,372.9257
Total	1.0137	4.3539	14.6535	0.0317	2.0770	0.0893	2.1663	0.5577	0.0822	0.6399	0.0000	2,318.2130	2,318.2130	0.0689	0.0000	2,319.6602

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	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	916.5896	916.5896	0.2230	0.0000	921.2728
Total	0.1278	0.6981	6.8164	0.0105		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	916.5896	916.5896	0.2230	0.0000	921.2728

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5186	3.6968	7.5434	0.0110	0.3194	0.0783	0.3977	0.0910	0.0720	0.1630	0.0000	946.6039	946.6039	6.2200e-003	0.0000	946.7345
Worker	0.4951	0.6571	7.1101	0.0207	1.7576	0.0110	1.7686	0.4668	0.0102	0.4770	0.0000	1,371.6091	1,371.6091	0.0627	0.0000	1,372.9257
Total	1.0137	4.3539	14.6535	0.0317	2.0770	0.0893	2.1663	0.5577	0.0822	0.6399	0.0000	2,318.2130	2,318.2130	0.0689	0.0000	2,319.6602

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8297	7.5000	6.6057	0.0105		0.4374	0.4374		0.4113	0.4113	0.0000	906.4541	906.4541	0.2208	0.0000	911.0918
Total	0.8297	7.5000	6.6057	0.0105		0.4374	0.4374		0.4113	0.4113	0.0000	906.4541	906.4541	0.2208	0.0000	911.0918

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4525	3.1519	6.9808	0.0110	0.3206	0.0705	0.3911	0.0913	0.0649	0.1562	0.0000	928.2283	928.2283	5.9900e-003	0.0000	928.3540
Worker	0.4628	0.6116	6.6413	0.0208	1.7643	0.0111	1.7754	0.4686	0.0103	0.4789	0.0000	1,320.6005	1,320.6005	0.0597	0.0000	1,321.8534
Total	0.9152	3.7635	13.6221	0.0318	2.0849	0.0816	2.1666	0.5599	0.0752	0.6350	0.0000	2,248.8287	2,248.8287	0.0657	0.0000	2,250.2075

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	0.1283	0.7008	6.8425	0.0105		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	906.4530	906.4530	0.2208	0.0000	911.0907
Total	0.1283	0.7008	6.8425	0.0105		2.3900e-003	2.3900e-003		2.3900e-003	2.3900e-003	0.0000	906.4530	906.4530	0.2208	0.0000	911.0907

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4525	3.1519	6.9808	0.0110	0.3206	0.0705	0.3911	0.0913	0.0649	0.1562	0.0000	928.2283	928.2283	5.9900e-003	0.0000	928.3540
Worker	0.4628	0.6116	6.6413	0.0208	1.7643	0.0111	1.7754	0.4686	0.0103	0.4789	0.0000	1,320.6005	1,320.6005	0.0597	0.0000	1,321.8534
Total	0.9152	3.7635	13.6221	0.0318	2.0849	0.0816	2.1666	0.5599	0.0752	0.6350	0.0000	2,248.8287	2,248.8287	0.0657	0.0000	2,250.2075

3.4 Building Construction - 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					
Off-Road	0.1477	1.3525	1.2899	2.0900e-003		0.0745	0.0745		0.0700	0.0700	0.0000	179.9283	179.9283	0.0434	0.0000	180.8386
Total	0.1477	1.3525	1.2899	2.0900e-003		0.0745	0.0745		0.0700	0.0700	0.0000	179.9283	179.9283	0.0434	0.0000	180.8386

3.4 Building Construction - 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	0.0831	0.5141	1.3148	2.1700e-003	0.0636	0.0121	0.0757	0.0181	0.0111	0.0292	0.0000	183.9950	183.9950	1.2000e-003	0.0000	184.0203
Worker	0.0867	0.1137	1.2527	4.1300e-003	0.3502	2.2600e-003	0.3524	0.0930	2.1000e-003	0.0951	0.0000	258.0792	258.0792	0.0115	0.0000	258.3199
Total	0.1698	0.6278	2.5675	6.3000e-003	0.4138	0.0143	0.4281	0.1111	0.0132	0.1243	0.0000	442.0742	442.0742	0.0127	0.0000	442.3402

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	0.0255	0.1391	1.3581	2.0900e-003		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	179.9281	179.9281	0.0434	0.0000	180.8384
Total	0.0255	0.1391	1.3581	2.0900e-003		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	179.9281	179.9281	0.0434	0.0000	180.8384

3.4 Building Construction - 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	0.0831	0.5141	1.3148	2.1700e-003	0.0636	0.0121	0.0757	0.0181	0.0111	0.0292	0.0000	183.9950	183.9950	1.2000e-003	0.0000	184.0203
Worker	0.0867	0.1137	1.2527	4.1300e-003	0.3502	2.2600e-003	0.3524	0.0930	2.1000e-003	0.0951	0.0000	258.0792	258.0792	0.0115	0.0000	258.3199
Total	0.1698	0.6278	2.5675	6.3000e-003	0.4138	0.0143	0.4281	0.1111	0.0132	0.1243	0.0000	442.0742	442.0742	0.0127	0.0000	442.3402

3.5 Paving - 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					
Off-Road	0.3046	3.1335	3.5523	5.5200e-003		0.1646	0.1646		0.1515	0.1515	0.0000	485.0378	485.0378	0.1569	0.0000	488.3321
Paving	0.0347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.3393	3.1335	3.5523	5.5200e-003		0.1646	0.1646		0.1515	0.1515	0.0000	485.0378	485.0378	0.1569	0.0000	488.3321

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321
Total	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321

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	0.0679	0.2355	4.1896	5.5200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	485.0372	485.0372	0.1569	0.0000	488.3315
Paving	0.0347					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1026	0.2355	4.1896	5.5200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	485.0372	485.0372	0.1569	0.0000	488.3315

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321
Total	7.5600e-003	9.9200e-003	0.1093	3.6000e-004	0.0305	2.0000e-004	0.0307	8.1100e-003	1.8000e-004	8.2900e-003	0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321

3.6 Architectural Coating - 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					
Archit. Coating	0.3642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1008	0.1200	2.0000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8758
Total	0.3786	0.1008	0.1200	2.0000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8758

3.6 Architectural Coating - 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	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	0.0000
Worker	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623	
Total	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623	

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	0.3642					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	6.8000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8757
Total	0.3662	6.8000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8757

3.6 Architectural Coating - 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	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623
Total	0.0147	0.0192	0.2117	7.0000e-004	0.0592	3.8000e-004	0.0596	0.0157	3.5000e-004	0.0161	0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623

3.6 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	1.9948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0739	0.5092	0.6556	1.0700e-003		0.0295	0.0295		0.0295	0.0295	0.0000	92.3001	92.3001	6.0100e-003	0.0000	92.4263
Total	2.0687	0.5092	0.6556	1.0700e-003		0.0295	0.0295		0.0295	0.0295	0.0000	92.3001	92.3001	6.0100e-003	0.0000	92.4263

3.6 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	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746
Total	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746

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	1.9948					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0372	0.6624	1.0700e-003		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	92.3000	92.3000	6.0100e-003	0.0000	92.4262
Total	2.0055	0.0372	0.6624	1.0700e-003		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	92.3000	92.3000	6.0100e-003	0.0000	92.4262

3.6 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	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746
Total	0.0757	0.0991	1.0943	3.8300e-003	0.3242	2.1200e-003	0.3263	0.0861	1.9700e-003	0.0881	0.0000	235.1603	235.1603	0.0102	0.0000	235.3746

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	9.0979	20.1041	97.0792	0.2198	13.9986	0.4321	14.4307	3.7432	0.3982	4.1414	0.0000	15,177.54 12	15,177.54 12	0.4591	0.0000	15,187.18 20
Unmitigated	9.3206	21.8924	102.9816	0.2475	15.8715	0.4847	16.3561	4.2440	0.4467	4.6907	0.0000	17,094.83 95	17,094.83 95	0.5116	0.0000	17,105.58 30

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479334	0.061620	0.171239	0.155613	0.034509	0.006445	0.010737	0.070109	0.001118	0.001845	0.004327	0.000443	0.002660

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	3,995.6518	3,995.6518	0.1837	0.0380	4,011.2888
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,367.4522	4,367.4522	0.2008	0.0415	4,384.5443
NaturalGas Mitigated	0.1951	1.6684	0.7203	0.0106		0.1348	0.1348		0.1348	0.1348	0.0000	1,930.3942	1,930.3942	0.0370	0.0354	1,942.1422
NaturalGas Unmitigated	0.2460	2.1037	0.9085	0.0134		0.1699	0.1699		0.1699	0.1699	0.0000	2,434.1172	2,434.1172	0.0467	0.0446	2,448.9308

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						
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	0.0000
Condo/Townhouse	5.41925e+006	0.0292	0.2497	0.1063	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.1921	289.1921	5.5400e-003	5.3000e-003	290.9520	
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	0.0000
Parking Lot	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	0.0000
Regional Shopping Center	208939	1.1300e-003	0.0102	8.6000e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1498	11.1498	2.1000e-004	2.0000e-004	11.2177	
Regional Shopping Center	443909	2.3900e-003	0.0218	0.0183	1.3000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	23.6887	23.6887	4.5000e-004	4.3000e-004	23.8328	
Single Family Housing	1.55328e+007	0.0838	0.7157	0.3046	4.5700e-003		0.0579	0.0579		0.0579	0.0579	0.0000	828.8885	828.8885	0.0159	0.0152	833.9329	
Single Family Housing	2.02602e+006	0.0109	0.0934	0.0397	6.0000e-004		7.5500e-003	7.5500e-003		7.5500e-003	7.5500e-003	0.0000	108.1159	108.1159	2.0700e-003	1.9800e-003	108.7739	
Single Family Housing	8.44173e+006	0.0455	0.3890	0.1655	2.4800e-003		0.0315	0.0315		0.0315	0.0315	0.0000	450.4829	450.4829	8.6300e-003	8.2600e-003	453.2244	
Single Family Housing	8.7794e+006	0.0473	0.4045	0.1722	2.5800e-003		0.0327	0.0327		0.0327	0.0327	0.0000	468.5022	468.5022	8.9800e-003	8.5900e-003	471.3534	
Apartments Low Rise	2.00344e+006	0.0108	0.0923	0.0393	5.9000e-004		7.4600e-003	7.4600e-003		7.4600e-003	7.4600e-003	0.0000	106.9113	106.9113	2.0500e-003	1.9600e-003	107.5619	
Apartments Low Rise	2.75816e+006	0.0149	0.1271	0.0541	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.1860	147.1860	2.8200e-003	2.7000e-003	148.0818	
Total		0.2460	2.1037	0.9085	0.0134		0.1699	0.1699		0.1699	0.1699	0.0000	2,434.1172	2,434.1172	0.0466	0.0446	2,448.9308	

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					
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
Condo/Townhouse	4.25847e+006	0.0230	0.1962	0.0835	1.2500e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.2481	227.2481	4.3600e-003	4.1700e-003	228.6311
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
Parking Lot	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
Regional Shopping Center	163459	8.8000e-004	8.0100e-003	6.7300e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7228	8.7228	1.7000e-004	1.6000e-004	8.7759
Regional Shopping Center	347282	1.8700e-003	0.0170	0.0143	1.0000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	18.5323	18.5323	3.6000e-004	3.4000e-004	18.6451
Single Family Housing	1.23339e+007	0.0665	0.5683	0.2418	3.6300e-003		0.0460	0.0460		0.0460	0.0460	0.0000	658.1814	658.1814	0.0126	0.0121	662.1870
Single Family Housing	1.60876e+006	8.6700e-003	0.0741	0.0315	4.7000e-004		5.9900e-003	5.9900e-003		5.9900e-003	5.9900e-003	0.0000	85.8498	85.8498	1.6500e-003	1.5700e-003	86.3722
Single Family Housing	6.70318e+006	0.0361	0.3089	0.1314	1.9700e-003		0.0250	0.0250		0.0250	0.0250	0.0000	357.7073	357.7073	6.8600e-003	6.5600e-003	359.8842
Single Family Housing	6.97131e+006	0.0376	0.3212	0.1367	2.0500e-003		0.0260	0.0260		0.0260	0.0260	0.0000	372.0156	372.0156	7.1300e-003	6.8200e-003	374.2796
Apartments Low Rise	1.59376e+006	8.5900e-003	0.0734	0.0313	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0490	85.0490	1.6300e-003	1.5600e-003	85.5666
Apartments Low Rise	2.19415e+006	0.0118	0.1011	0.0430	6.5000e-004		8.1700e-003	8.1700e-003		8.1700e-003	8.1700e-003	0.0000	117.0880	117.0880	2.2400e-003	2.1500e-003	117.8006
Total		0.1950	1.6683	0.7203	0.0106		0.1348	0.1348		0.1348	0.1348	0.0000	1,930.3942	1,930.3942	0.0370	0.0354	1,942.1422

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	595362	170.3728	7.8300e-003	1.6200e-003	171.0396
Apartments Low Rise	819642	234.5544	0.0108	2.2300e-003	235.4723
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.28252e+006	367.0146	0.0169	3.4900e-003	368.4509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	247630	70.8635	3.2600e-003	6.7000e-004	71.1408
Regional Shopping Center	1.41034e+006	403.5925	0.0186	3.8400e-003	405.1720
Regional Shopping Center	2.99638e+006	857.4660	0.0394	8.1500e-003	860.8217
Single Family Housing	1.91991e+006	549.4147	0.0253	5.2300e-003	551.5648
Single Family Housing	1.99671e+006	571.3913	0.0263	5.4300e-003	573.6274
Single Family Housing	3.53263e+006	1,010.9230	0.0465	9.6100e-003	1,014.8793
Single Family Housing	460778	131.8595	6.0600e-003	1.2500e-003	132.3756
Total		4,367.4522	0.2008	0.0415	4,384.5443

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	548754	157.0354	7.2200e-003	1.4900e-003	157.6499
Apartments Low Rise	755477	216.1925	9.9400e-003	2.0600e-003	217.0386
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.18178e+006	338.1875	0.0156	3.2200e-003	339.5111
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	235248	67.3203	3.0900e-003	6.4000e-004	67.5838
Regional Shopping Center	1.24994e+006	357.6922	0.0164	3.4000e-003	359.0921
Regional Shopping Center	2.65561e+006	759.9470	0.0349	7.2300e-003	762.9211
Single Family Housing	1.78055e+006	509.5332	0.0234	4.8500e-003	511.5273
Single Family Housing	1.85177e+006	529.9145	0.0244	5.0400e-003	531.9884
Single Family Housing	3.2762e+006	937.5411	0.0431	8.9200e-003	941.2102
Single Family Housing	427331	122.2880	5.6200e-003	1.1600e-003	122.7666
Total		3,995.6518	0.1837	0.0380	4,011.2888

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	18.5428	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115
Unmitigated	23.7957	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115

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	5.4888					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3637	2.0000e-005	0.0198	0.0000		0.2513	0.2513		0.2486	0.2486	0.0000	3,599.0083	3,599.0083	0.0690	0.0660	3,620.9112
Landscaping	0.3685	0.1406	12.1933	6.4000e-004		0.0674	0.0674		0.0674	0.0674	0.0000	19.8970	19.8970	0.0192	0.0000	20.3003
Total	23.7957	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115

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	0.2359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3637	2.0000e-005	0.0198	0.0000		0.2513	0.2513		0.2486	0.2486	0.0000	3,599.0083	3,599.0083	0.0690	0.0660	3,620.9112
Landscaping	0.3685	0.1406	12.1933	6.4000e-004		0.0674	0.0674		0.0674	0.0674	0.0000	19.8970	19.8970	0.0192	0.0000	20.3003
Total	18.5428	0.1406	12.2131	6.4000e-004		0.3186	0.3186		0.3160	0.3160	0.0000	3,618.9053	3,618.9053	0.0882	0.0660	3,641.2115

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	645.5649	3.3570	0.0844	742.2353
Unmitigated	823.4711	4.1970	0.1057	944.3736

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	22.6084 / 14.2532	136.7310	0.7427	0.0186	158.1011
City Park	0 / 16.4663	52.3515	2.4100e-003	5.0000e-004	52.5563
Condo/Townhouse	17.1355 / 10.8028	103.6318	0.5629	0.0141	119.8288
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	20.844 / 12.7754	124.8982	0.6846	0.0172	144.5960
Single Family Housing	67.1086 / 42.3076	405.8585	2.2044	0.0553	469.2914
Total		823.4710	4.1970	0.1057	944.3736

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	18.0868 / 11.4025	107.0456	0.5940	0.0149	124.1326
City Park	0 / 13.173	41.8812	1.9300e-003	4.0000e-004	42.0451
Condo/Townhouse	13.7084 / 8.64226	81.1326	0.4502	0.0113	94.0832
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	16.6752 / 10.2203	97.7620	0.5476	0.0137	113.5118
Single Family Housing	53.6869 / 33.8461	317.7435	1.7632	0.0442	368.4627
Total		645.5649	3.3570	0.0844	742.2353

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6116	5.3550	0.0000	203.0665
Unmitigated	362.4465	21.4200	0.0000	812.2659

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	159.62	32.4014	1.9149	0.0000	72.6137
City Park	1.19	0.2416	0.0143	0.0000	0.5414
Condo/Townhouse	120.98	24.5579	1.4513	0.0000	55.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	295.47	59.9777	3.5446	0.0000	134.4140
Single Family Housing	1208.27	245.2679	14.4949	0.0000	549.6612
Total		362.4465	21.4200	0.0000	812.2659

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	39.905	8.1004	0.4787	0.0000	18.1534
City Park	0.2975	0.0604	3.5700e-003	0.0000	0.1353
Condo/Townhouse	30.245	6.1395	0.3628	0.0000	13.7589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	73.8675	14.9944	0.8862	0.0000	33.6035
Single Family Housing	302.068	61.3170	3.6237	0.0000	137.4153
Total		90.6116	5.3550	0.0000	203.0665

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	1,703.448 0	0.0000	0.0000	1,703.448 0

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2406	1,703.448 0	0.0000	0.0000	1,703.448 0
Total		1,703.448 0	0.0000	0.0000	1,703.448 0

Vista Del Agua 2020
Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	13.82	Acre	13.82	601,999.20	0
Apartments Low Rise	146.00	Dwelling Unit	7.35	146,000.00	418
Apartments Low Rise	201.00	Dwelling Unit	10.09	201,000.00	575
Condo/Townhouse	263.00	Dwelling Unit	21.92	263,000.00	752
Single Family Housing	250.00	Dwelling Unit	43.04	450,000.00	715
Single Family Housing	460.00	Dwelling Unit	72.47	828,000.00	1316
Single Family Housing	260.00	Dwelling Unit	46.46	468,000.00	744
Single Family Housing	60.00	Dwelling Unit	14.34	108,000.00	172
Regional Shopping Center	191.34	1000sqft	10.88	191,340.00	0
Regional Shopping Center	90.06	1000sqft	8.55	90,060.00	0
Other Asphalt Surfaces	20.00	Acre	20.00	871,200.00	0
Parking Lot	6.46	Acre	6.46	281,397.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - - Per Project Site Plan with 20 acres of on-site roads and ~6.46 acres of parking lots.

Construction Phase - - 2022 Buildout Date (7 Years) - CalEEMod Default project would take 22 years to construct
To complete the project within a 7 year period, construction equipment would need to be increased by 3 times ($22/7 = 3.14$)

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Off-road Equipment - Default equipment x 3

Grading - - 275.38 acres per site plan

Woodstoves - -Project will have no wood burning stove or wood burning fireplaces Apts 312.3 gas, condos 236.7 gas, SFD 927 gas

Trips and VMT -

Architectural Coating - SCAQMD limits paints to 50g/L per Rule 1113.

Vehicle Trips - Per TIA daily trip generation rates are: 29.89 per TSF shopping ctr (w/30% reduction from pass-by), 6.65 per du apartments, 5.81 per du condo/twnhse, 9.52 per du SFD, and 1.89 per ac city park.

Area Coating - Paints limited to 50g/L per SCAQMD Rule 1113

Sequestration - 13.82 acres of parks, 25 trees per acre = 346 trees. 2 trees per residential lot = 1,030 homes x 2 trees = 2,060 trees; totaling at least 2,406 trees

Construction Off-road Equipment Mitigation - Construction equipment will use Tier 4 final engines, with Level 3 DPF and oxidation catalysts that are at least 20% efficient.

Mobile Land Use Mitigation - 7.89 du/acre, 6.46 acres = 87 jobs/acre. Increase diversity w/commercial, residential and park uses. ~1.7 miles to dwtwn Coachella. 1.5 miles to Sunline bus routes 91 and 95 at Harrison/Grapefruit. Sidewalks connecting off-site.

Area Mitigation - Only gas hearths and 50g/L paint per SCAQMD rule 1113.

Energy Mitigation - Residential 2013 Title 24 standards are at least 25% more efficient than 2008 Title 24 standards. Energy Star appliances will be installed.

Water Mitigation - Reduce water usage by 20% indoor and out

Waste Mitigation - AB 341 requires at least 75% recycling by 2020

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	330.00	285.00
tblConstructionPhase	NumDays	4,650.00	1,249.00
tblConstructionPhase	NumDays	465.00	240.00
tblConstructionPhase	NumDays	330.00	165.00
tblConstructionPhase	NumDays	180.00	129.00
tblFireplaces	NumberGas	277.60	312.30
tblFireplaces	NumberGas	210.40	236.70
tblFireplaces	NumberGas	824.00	927.00
tblFireplaces	NumberWood	34.70	0.00
tblFireplaces	NumberWood	26.30	0.00
tblFireplaces	NumberWood	103.00	0.00
tblGrading	AcresOfGrading	1,800.00	275.38
tblGrading	AcresOfGrading	0.00	275.38
tblLandUse	LotAcreage	9.13	7.35
tblLandUse	LotAcreage	12.56	10.09
tblLandUse	LotAcreage	16.44	21.92
tblLandUse	LotAcreage	81.17	43.04
tblLandUse	LotAcreage	84.42	46.46
tblLandUse	LotAcreage	149.35	72.47
tblLandUse	LotAcreage	19.48	14.34
tblLandUse	LotAcreage	4.39	10.88
tblLandUse	LotAcreage	2.07	8.55

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSequestration	NumberOfNewTrees	0.00	2,406.00
tblVehicleTrips	ST_TR	7.16	6.65
tblVehicleTrips	ST_TR	1.59	1.89
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	49.97	29.89
tblVehicleTrips	ST_TR	10.08	9.52
tblVehicleTrips	SU_TR	6.07	6.65
tblVehicleTrips	SU_TR	1.59	1.89
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	25.24	29.89
tblVehicleTrips	SU_TR	8.77	9.52

tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	1.59	1.89
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	42.94	29.89
tblVehicleTrips	WD_TR	9.57	9.52
tblWoodstoves	NumberCatalytic	17.35	0.00
tblWoodstoves	NumberCatalytic	13.15	0.00
tblWoodstoves	NumberCatalytic	51.50	0.00
tblWoodstoves	NumberNoncatalytic	17.35	0.00
tblWoodstoves	NumberNoncatalytic	13.15	0.00
tblWoodstoves	NumberNoncatalytic	51.50	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					
2015											0.0000	1,942.237 2	1,942.237 2	0.5662	0.0000	1,954.127 8
2016											0.0000	3,011.136 1	3,011.136 1	0.4728	0.0000	3,021.064 4
2017											0.0000	3,386.813 0	3,386.813 0	0.3074	0.0000	3,393.268 1
2018											0.0000	3,315.829 8	3,315.829 8	0.2996	0.0000	3,322.120 3
2019											0.0000	3,234.803 6	3,234.803 6	0.2919	0.0000	3,240.934 0
2020											0.0000	3,155.282 8	3,155.282 8	0.2865	0.0000	3,161.299 3
2021											0.0000	1,190.024 5	1,190.024 5	0.2170	0.0000	1,194.581 0
2022											0.0000	327.4604	327.4604	0.0162	0.0000	327.8009
Total											0.0000	19,563.58 73	19,563.58 73	2.4576	0.0000	19,615.19 57

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											0.0000	3,618.9053	3,618.9053	0.0884	0.0660	3,641.2159
Energy											0.0000	6,801.5694	6,801.5694	0.2474	0.0862	6,833.4751
Mobile											0.0000	17,493.2909	17,493.2909	0.5477	0.0000	17,504.7921
Waste											362.4465	0.0000	362.4465	21.4200	0.0000	812.2659
Water											40.5122	782.9588	823.4711	4.1970	0.1057	944.3736
Total											402.9587	28,696.7244	29,099.6831	26.5004	0.2578	29,736.1226

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											0.0000	3,618.9053	3,618.9053	0.0884	0.0660	3,641.2159
Energy											0.0000	5,926.0460	5,926.0460	0.2207	0.0734	5,953.4311
Mobile											0.0000	15,531.4391	15,531.4391	0.4919	0.0000	15,541.7688
Waste											90.6116	0.0000	90.6116	5.3550	0.0000	203.0665
Water											32.4098	613.1551	645.5649	3.3570	0.0844	742.2353
Total											123.0214	25,689.5454	25,812.5668	9.5129	0.2238	26,081.7175

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.47	10.48	11.30	64.10	13.20	12.29

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	1,703.448 0
Total	1,703.448 0

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	6/30/2015	5	129	
2	Grading	Grading	7/1/2015	5/31/2016	5	240	
3	Building Construction	Building Construction	6/1/2016	3/15/2021	5	1249	
4	Paving	Paving	3/16/2021	11/1/2021	5	165	
5	Architectural Coating	Architectural Coating	11/2/2021	12/5/2022	5	285	

Acres of Grading (Site Preparation Phase): 275.38

Acres of Grading (Grading Phase): 275.38

Acres of Paving: 0

Residential Indoor: 4,989,600; Residential Outdoor: 1,663,200; Non-Residential Indoor: 2,644,562; Non-Residential Outdoor: 881,521 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	9	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	12	8.00	97	0.37
Grading	Excavators	6	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	6	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Cranes	3	7.00	226	0.29
Building Construction	Forklifts	9	8.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	9	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	6	8.00	125	0.42
Paving	Paving Equipment	6	8.00	130	0.36
Paving	Rollers	6	8.00	80	0.38
Architectural Coating	Air Compressors	3	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
Site Preparation	21	53.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	24	60.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	27	1,637.00	509.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	18	45.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	3	327.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Oxidation Catalyst for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2015

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
Off-Road											0.0000	721.7766	721.7766	0.2155	0.0000	726.3017
Total											0.0000	721.7766	721.7766	0.2155	0.0000	726.3017

3.2 Site Preparation - 2015

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884
Total											0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884

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
Off-Road											0.0000	721.7758	721.7758	0.2155	0.0000	726.3009
Total											0.0000	721.7758	721.7758	0.2155	0.0000	726.3009

3.2 Site Preparation - 2015

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884
Total											0.0000	25.6601	25.6601	1.3500e-003	0.0000	25.6884

3.3 Grading - 2015

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
Off-Road											0.0000	1,165.0758	1,165.0758	0.3478	0.0000	1,172.3801
Total											0.0000	1,165.0758	1,165.0758	0.3478	0.0000	1,172.3801

3.3 Grading - 2015

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576
Total											0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576

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
Off-Road											0.0000	1,165.0744	1,165.0744	0.3478	0.0000	1,172.3787
Total											0.0000	1,165.0744	1,165.0744	0.3478	0.0000	1,172.3787

3.3 Grading - 2015

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576
Total											0.0000	29.7247	29.7247	1.5600e-003	0.0000	29.7576

3.3 Grading - 2016

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
Off-Road											0.0000	942.7708	942.7708	0.2844	0.0000	948.7426
Total											0.0000	942.7708	942.7708	0.2844	0.0000	948.7426

3.3 Grading - 2016

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393
Total											0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393

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
Off-Road											0.0000	942.7696	942.7696	0.2844	0.0000	948.7415
Total											0.0000	942.7696	942.7696	0.2844	0.0000	948.7415

3.3 Grading - 2016

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393
Total											0.0000	23.4147	23.4147	1.1700e-003	0.0000	23.4393

3.4 Building Construction - 2016

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											0.0000	555.7425	555.7425	0.1378	0.0000	558.6370
Total											0.0000	555.7425	555.7425	0.1378	0.0000	558.6370

3.4 Building Construction - 2016

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
Vendor											0.0000	584.1981	584.1981	4.0300e-003	0.0000	584.2827
Worker											0.0000	905.0101	905.0101	0.0454	0.0000	905.9628
Total											0.0000	1,489.2082	1,489.2082	0.0494	0.0000	1,490.2454

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											0.0000	555.7418	555.7418	0.1378	0.0000	558.6363
Total											0.0000	555.7418	555.7418	0.1378	0.0000	558.6363

3.4 Building Construction - 2016

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
Vendor											0.0000	584.1981	584.1981	4.0300e-003	0.0000	584.2827
Worker											0.0000	905.0101	905.0101	0.0454	0.0000	905.9628
Total											0.0000	1,489.2082	1,489.2082	0.0494	0.0000	1,490.2454

3.4 Building Construction - 2017

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											0.0000	933.9685	933.9685	0.2299	0.0000	938.7957
Total											0.0000	933.9685	933.9685	0.2299	0.0000	938.7957

3.4 Building Construction - 2017

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
Vendor											0.0000	976.6018	976.6018	6.4300e-003	0.0000	976.7369
Worker											0.0000	1,476.2426	1,476.2426	0.0711	0.0000	1,477.7355
Total											0.0000	2,452.8444	2,452.8444	0.0775	0.0000	2,454.4724

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											0.0000	933.9674	933.9674	0.2299	0.0000	938.7946
Total											0.0000	933.9674	933.9674	0.2299	0.0000	938.7946

3.4 Building Construction - 2017

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
Vendor											0.0000	976.6018	976.6018	6.4300e-003	0.0000	976.7369
Worker											0.0000	1,476.2426	1,476.2426	0.0711	0.0000	1,477.7355
Total											0.0000	2,452.8444	2,452.8444	0.0775	0.0000	2,454.4724

3.4 Building Construction - 2018

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											0.0000	926.9533	926.9533	0.2268	0.0000	931.7170
Total											0.0000	926.9533	926.9533	0.2268	0.0000	931.7170

3.4 Building Construction - 2018

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
Vendor											0.0000	963.5545	963.5545	6.3300e-003	0.0000	963.6874
Worker											0.0000	1,425.3220	1,425.3220	0.0664	0.0000	1,426.7159
Total											0.0000	2,388.8765	2,388.8765	0.0727	0.0000	2,390.4033

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											0.0000	926.9522	926.9522	0.2268	0.0000	931.7159
Total											0.0000	926.9522	926.9522	0.2268	0.0000	931.7159

3.4 Building Construction - 2018

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
Vendor											0.0000	963.5545	963.5545	6.3300e-003	0.0000	963.6874
Worker											0.0000	1,425.3220	1,425.3220	0.0664	0.0000	1,426.7159
Total											0.0000	2,388.8765	2,388.8765	0.0727	0.0000	2,390.4033

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	916.5906	916.5906	0.2230	0.0000	921.2739
Total											0.0000	916.5906	916.5906	0.2230	0.0000	921.2739

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	946.6039	946.6039	6.2200e-003	0.0000	946.7345
Worker											0.0000	1,371.6091	1,371.6091	0.0627	0.0000	1,372.9257
Total											0.0000	2,318.2130	2,318.2130	0.0689	0.0000	2,319.6602

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											0.0000	916.5896	916.5896	0.2230	0.0000	921.2728
Total											0.0000	916.5896	916.5896	0.2230	0.0000	921.2728

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	946.6039	946.6039	6.2200e-003	0.0000	946.7345
Worker											0.0000	1,371.6091	1,371.6091	0.0627	0.0000	1,372.9257
Total											0.0000	2,318.2130	2,318.2130	0.0689	0.0000	2,319.6602

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	906.4541	906.4541	0.2208	0.0000	911.0918
Total											0.0000	906.4541	906.4541	0.2208	0.0000	911.0918

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	928.2283	928.2283	5.9900e-003	0.0000	928.3540
Worker											0.0000	1,320.6005	1,320.6005	0.0597	0.0000	1,321.8534
Total											0.0000	2,248.8287	2,248.8287	0.0657	0.0000	2,250.2075

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											0.0000	906.4530	906.4530	0.2208	0.0000	911.0907
Total											0.0000	906.4530	906.4530	0.2208	0.0000	911.0907

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	928.2283	928.2283	5.9900e-003	0.0000	928.3540
Worker											0.0000	1,320.6005	1,320.6005	0.0597	0.0000	1,321.8534
Total											0.0000	2,248.8287	2,248.8287	0.0657	0.0000	2,250.2075

3.4 Building Construction - 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					
Off-Road											0.0000	179.9283	179.9283	0.0434	0.0000	180.8386
Total											0.0000	179.9283	179.9283	0.0434	0.0000	180.8386

3.4 Building Construction - 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
Vendor											0.0000	183.9950	183.9950	1.2000e-003	0.0000	184.0203
Worker											0.0000	258.0792	258.0792	0.0115	0.0000	258.3199
Total											0.0000	442.0742	442.0742	0.0127	0.0000	442.3402

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											0.0000	179.9281	179.9281	0.0434	0.0000	180.8384
Total											0.0000	179.9281	179.9281	0.0434	0.0000	180.8384

3.4 Building Construction - 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
Vendor											0.0000	183.9950	183.9950	1.2000e-003	0.0000	184.0203
Worker											0.0000	258.0792	258.0792	0.0115	0.0000	258.3199
Total											0.0000	442.0742	442.0742	0.0127	0.0000	442.3402

3.5 Paving - 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					
Off-Road											0.0000	485.0378	485.0378	0.1569	0.0000	488.3321
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	485.0378	485.0378	0.1569	0.0000	488.3321

3.5 Paving - 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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321
Total											0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321

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											0.0000	485.0372	485.0372	0.1569	0.0000	488.3315
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total											0.0000	485.0372	485.0372	0.1569	0.0000	488.3315

3.5 Paving - 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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321
Total											0.0000	22.5111	22.5111	1.0000e-003	0.0000	22.5321

3.6 Architectural Coating - 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					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8758
Total											0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8758

3.6 Architectural Coating - 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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623
Total											0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623

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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8757
Total											0.0000	16.8515	16.8515	1.1600e-003	0.0000	16.8757

3.6 Architectural Coating - 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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623
Total											0.0000	43.6216	43.6216	1.9400e-003	0.0000	43.6623

3.6 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	92.3001	92.3001	6.0100e-003	0.0000	92.4263
Total											0.0000	92.3001	92.3001	6.0100e-003	0.0000	92.4263

3.6 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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	235.1603	235.1603	0.0102	0.0000	235.3746
Total											0.0000	235.1603	235.1603	0.0102	0.0000	235.3746

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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	92.3000	92.3000	6.0100e-003	0.0000	92.4262
Total											0.0000	92.3000	92.3000	6.0100e-003	0.0000	92.4262

3.6 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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	235.1603	235.1603	0.0102	0.0000	235.3746
Total											0.0000	235.1603	235.1603	0.0102	0.0000	235.3746

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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											0.0000	15,531.43 91	15,531.43 91	0.4919	0.0000	15,541.76 88
Unmitigated											0.0000	17,493.29 09	17,493.29 09	0.5477	0.0000	17,504.79 21

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	970.90	970.90	970.90	2,171,827	1,915,551
Apartments Low Rise	1,336.65	1,336.65	1,336.65	2,989,981	2,637,163
City Park	26.12	26.12	26.12	49,800	43,924
Condo/Townhouse	1,528.03	1,528.03	1,528.03	3,418,082	3,014,749
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	5,719.15	5,719.15	5,719.15	7,574,556	6,680,759
Regional Shopping Center	2,691.89	2,691.89	2,691.89	3,565,196	3,144,503
Single Family Housing	2,380.00	2,380.00	2,380.00	5,323,872	4,695,655
Single Family Housing	4,379.20	4,379.20	4,379.20	9,795,925	8,640,006
Single Family Housing	2,475.20	2,475.20	2,475.20	5,536,827	4,883,481
Single Family Housing	571.20	571.20	571.20	1,277,729	1,126,957
Total	22,078.35	22,078.35	22,078.35	41,703,795	36,782,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Apartments Low Rise	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
City Park	12.50	4.20	5.40	33.00	48.00	19.00	66	28	6
Condo/Townhouse	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Parking Lot	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Regional Shopping Center	12.50	4.20	5.40	16.30	64.70	19.00	54	35	11
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.481843	0.061039	0.168372	0.152699	0.036518	0.006779	0.011223	0.071042	0.001136	0.001832	0.004524	0.000460	0.002533

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	3,995.6518	3,995.6518	0.1837	0.0380	4,011.2888
Electricity Unmitigated											0.0000	4,367.4522	4,367.4522	0.2008	0.0415	4,384.5443
NaturalGas Mitigated											0.0000	1,930.3942	1,930.3942	0.0370	0.0354	1,942.1422
NaturalGas Unmitigated											0.0000	2,434.1172	2,434.1172	0.0467	0.0446	2,448.9308

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					
City Park	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.41925e+006											0.0000	289.1921	289.1921	5.5400e-003	5.3000e-003	290.9520
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	208939											0.0000	11.1498	11.1498	2.1000e-004	2.0000e-004	11.2177
Regional Shopping Center	443909											0.0000	23.6887	23.6887	4.5000e-004	4.3000e-004	23.8328
Single Family Housing	1.55328e+007											0.0000	828.8885	828.8885	0.0159	0.0152	833.9329
Single Family Housing	2.02602e+006											0.0000	108.1159	108.1159	2.0700e-003	1.9800e-003	108.7739
Single Family Housing	8.44173e+006											0.0000	450.4829	450.4829	8.6300e-003	8.2600e-003	453.2244
Single Family Housing	8.7794e+006											0.0000	468.5022	468.5022	8.9800e-003	8.5900e-003	471.3534
Apartments Low Rise	2.00344e+006											0.0000	106.9113	106.9113	2.0500e-003	1.9600e-003	107.5619
Apartments Low Rise	2.75816e+006											0.0000	147.1860	147.1860	2.8200e-003	2.7000e-003	148.0818
Total												0.0000	2,434.1172	2,434.1172	0.0466	0.0446	2,448.9308

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					
City Park	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	4.25847e+006											0.0000	227.2481	227.2481	4.3600e-003	4.1700e-003	228.6311
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	163459											0.0000	8.7228	8.7228	1.7000e-004	1.6000e-004	8.7759
Regional Shopping Center	347282											0.0000	18.5323	18.5323	3.6000e-004	3.4000e-004	18.6451
Single Family Housing	1.23339e+007											0.0000	658.1814	658.1814	0.0126	0.0121	662.1870
Single Family Housing	1.60876e+006											0.0000	85.8498	85.8498	1.6500e-003	1.5700e-003	86.3722
Single Family Housing	6.70318e+006											0.0000	357.7073	357.7073	6.8600e-003	6.5600e-003	359.8842
Single Family Housing	6.97131e+006											0.0000	372.0156	372.0156	7.1300e-003	6.8200e-003	374.2796
Apartments Low Rise	1.59376e+006											0.0000	85.0490	85.0490	1.6300e-003	1.5600e-003	85.5666
Apartments Low Rise	2.19415e+006											0.0000	117.0880	117.0880	2.2400e-003	2.1500e-003	117.8006
Total												0.0000	1,930.3942	1,930.3942	0.0370	0.0354	1,942.1422

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	595362	170.3728	7.8300e-003	1.6200e-003	171.0396
Apartments Low Rise	819642	234.5544	0.0108	2.2300e-003	235.4723
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.28252e+006	367.0146	0.0169	3.4900e-003	368.4509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	247630	70.8635	3.2600e-003	6.7000e-004	71.1408
Regional Shopping Center	1.41034e+006	403.5925	0.0186	3.8400e-003	405.1720
Regional Shopping Center	2.99638e+006	857.4660	0.0394	8.1500e-003	860.8217
Single Family Housing	1.91991e+006	549.4147	0.0253	5.2300e-003	551.5648
Single Family Housing	1.99671e+006	571.3913	0.0263	5.4300e-003	573.6274
Single Family Housing	3.53263e+006	1,010.9230	0.0465	9.6100e-003	1,014.8793
Single Family Housing	460778	131.8595	6.0600e-003	1.2500e-003	132.3756
Total		4,367.4522	0.2008	0.0415	4,384.5443

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	548754	157.0354	7.2200e-003	1.4900e-003	157.6499
Apartments Low Rise	755477	216.1925	9.9400e-003	2.0600e-003	217.0386
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.18178e+006	338.1875	0.0156	3.2200e-003	339.5111
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	235248	67.3203	3.0900e-003	6.4000e-004	67.5838
Regional Shopping Center	1.24994e+006	357.6922	0.0164	3.4000e-003	359.0921
Regional Shopping Center	2.65561e+006	759.9470	0.0349	7.2300e-003	762.9211
Single Family Housing	1.78055e+006	509.5332	0.0234	4.8500e-003	511.5273
Single Family Housing	1.85177e+006	529.9145	0.0244	5.0400e-003	531.9884
Single Family Housing	3.2762e+006	937.5411	0.0431	8.9200e-003	941.2102
Single Family Housing	427331	122.2880	5.6200e-003	1.1600e-003	122.7666
Total		3,995.6518	0.1837	0.0380	4,011.2888

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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											0.0000	3,618.905 3	3,618.905 3	0.0884	0.0660	3,641.215 9
Unmitigated											0.0000	3,618.905 3	3,618.905 3	0.0884	0.0660	3,641.215 9

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
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	3,599.008 3	3,599.008 3	0.0690	0.0660	3,620.911 2
Landscaping											0.0000	19.8970	19.8970	0.0194	0.0000	20.3046
Total											0.0000	3,618.905 3	3,618.905 3	0.0884	0.0660	3,641.215 9

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
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	3,599.008 3	3,599.008 3	0.0690	0.0660	3,620.911 2
Landscaping											0.0000	19.8970	19.8970	0.0194	0.0000	20.3046
Total											0.0000	3,618.905 3	3,618.905 3	0.0884	0.0660	3,641.215 9

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	645.5649	3.3570	0.0844	742.2353
Unmitigated	823.4711	4.1970	0.1057	944.3736

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	22.6084 / 14.2532	136.7310	0.7427	0.0186	158.1011
City Park	0 / 16.4663	52.3515	2.4100e-003	5.0000e-004	52.5563
Condo/Townhouse	17.1355 / 10.8028	103.6318	0.5629	0.0141	119.8288
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	20.844 / 12.7754	124.8982	0.6846	0.0172	144.5960
Single Family Housing	67.1086 / 42.3076	405.8585	2.2044	0.0553	469.2914
Total		823.4710	4.1970	0.1057	944.3736

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	18.0868 / 11.4025	107.0456	0.5940	0.0149	124.1326
City Park	0 / 13.173	41.8812	1.9300e-003	4.0000e-004	42.0451
Condo/Townhouse	13.7084 / 8.64226	81.1326	0.4502	0.0113	94.0832
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	16.6752 / 10.2203	97.7620	0.5476	0.0137	113.5118
Single Family Housing	53.6869 / 33.8461	317.7435	1.7632	0.0442	368.4627
Total		645.5649	3.3570	0.0844	742.2353

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6116	5.3550	0.0000	203.0665
Unmitigated	362.4465	21.4200	0.0000	812.2659

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	159.62	32.4014	1.9149	0.0000	72.6137
City Park	1.19	0.2416	0.0143	0.0000	0.5414
Condo/Townhouse	120.98	24.5579	1.4513	0.0000	55.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	295.47	59.9777	3.5446	0.0000	134.4140
Single Family Housing	1208.27	245.2679	14.4949	0.0000	549.6612
Total		362.4465	21.4200	0.0000	812.2659

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	39.905	8.1004	0.4787	0.0000	18.1534
City Park	0.2975	0.0604	3.5700e-003	0.0000	0.1353
Condo/Townhouse	30.245	6.1395	0.3628	0.0000	13.7589
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	73.8675	14.9944	0.8862	0.0000	33.6035
Single Family Housing	302.068	61.3170	3.6237	0.0000	137.4153
Total		90.6116	5.3550	0.0000	203.0665

9.0 Operational Offroad

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	1,703.448 0	0.0000	0.0000	1,703.448 0

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	2406	1,703.448 0	0.0000	0.0000	1,703.448 0
Total		1,703.448 0	0.0000	0.0000	1,703.448 0

Appendix B

Excerpt of Guidance Document
for Addressing Air Quality Issues in
General Plans and Local Planning

Toxic Air Contaminants

Sensitive receptors (and the facilities that house them) in proximity to sources of air pollutants that emit TACs are of particular concern. Exposure to TACs can increase the risk of contracting cancer or result in adverse non-cancer health effects. Non-cancer health risks associated with TAC exposure include birth defects and other reproductive damage, neurological disorders, and damage to the respiratory system. A comprehensive monitoring study of TACs was initiated as part of AQMD's environmental justice program. The Multiple Air Toxics Exposure Study (MATES-II) included fixed sites characterizing neighborhood-scale conditions and a complementary microscale study to sample potential localized influences of toxic-emitting sources near residential neighborhoods. Inventories of TACs were utilized in computer simulation models to depict toxic risks for the entire South Coast basin. The MATES-II project represents one of the most comprehensive air toxics monitoring programs ever conducted in a major urban area in the country, and it has been recognized as a model program. Findings from the study revealed the following:

- Average cancer risk from ambient measurements in the South Coast basin was found to be 1400 in a million;
- Diesel exhaust is responsible for about 70 percent of the total cancer risk from air pollution;
- Emissions from mobile sources -- including cars and trucks as well as ships, trains and planes -- account for about 90 percent of the cancer risk. Emissions from businesses and industry are responsible for the remaining 10 percent; and
- The highest cancer risk occurs in south Los Angeles county -- including the port area -- and along major freeways.

In 2005, the AQMD plans to release the results of another intensive one-year study that examined current levels of cancer-causing TACs and the risk they pose to district residents. This study will help gauge the effectiveness of current regulations and serve as a vital tool in helping shape future air quality and environmental justice policies. MATES-III will monitor 21 TACs and four other substances at 10 sites across the Los Angeles basin. The AQMD will use mobile monitoring stations to sample at neighborhood sites near toxic emission sources or in areas where community members are concerned about health risks from air pollution. Such neighborhood sites could be near airports, rail yards, warehouses, landfills, high-volume vehicle traffic, or multiple commercial or industrial facilities. Sampling at each neighborhood site lasts for up to two months. The goal of MATES-III is to update TAC levels and toxic emission inventories, determine the cancer and non-cancer health risk from air toxics across the district. Also, the study will investigate potential toxic "hot spots" in local communities.

The potential impacts of new facilities on sensitive sites will depend on a variety of factors including the amount and toxicity of pollutants emitted, the type of air pollution control equipment at the facility, design features of the facility, the distance from the

source of emissions to the sensitive receptor, and local meteorology. All these factors should be carefully evaluated when siting a source of air pollution. Typically, the siting process followed by land use agencies to avoid the location of sensitive sites (e.g., residences, health clinics, etc.) near sources of air pollution does not involve the AQMD. The potential for public health impacts remains unchanged when siting sensitive receptors near a pollution source or a pollution source near a sensitive receptor. Therefore, local policies should allow for a thorough evaluation of the air quality impacts for both scenarios.

Where possible, CARB recommends a minimum separation between new sensitive land uses and the following eight categories of existing sources (Table 1-1 in CARB's Proposed Air Quality and Land Use Handbook: A Community Health Perspective, March 2005, or subsequent versions adopted by CARB):

- high-traffic freeways and roads
- distribution centers
- rail yards
- ports
- refineries
- chrome plating facilities
- perchloroethylene dry cleaners
- large gasoline stations

It is recommended that the AQMD be consulted to obtain facility-specific emissions information and accepted assessment methods for determining relative exposure and health risk for proposed projects.

Recent studies have found an increased incidence of adverse effects among those who live near busy roadways; these include increased respiratory disease and increased mortality (Wilhelm, M., et al 2003; Kim, J. et al 2004). These studies found that residential proximity to traffic was associated with increased risk of low birth weight, increased medical visits for asthma and increased respiratory symptoms in children. Studies conducted near freeways in Southern California show that traffic emissions, such as carbon monoxide, ultra-fine particulates, and black carbon (soot) are several times higher next to freeways than the background concentrations. These concentrations fell to lower levels with increasing distance from the roadway, decreasing about 60-80 percent within 100 meters (Zhu, Yifang, et al, 2002).

Recent results from the Children's Health Study have shown strong evidence of adverse effects in children exposed to ambient levels of traffic-related pollutants. This study followed children in 12 communities in Southern California from 4th grade through 12th grade (McConnell, K., et al, 2002). Children in communities with high levels of NO_x, PM_{2.5}, acid vapors, and elemental carbon showed reduced lung function growth over the study period. Additionally, a higher level of asthma was found in the children that lived nearest to busy roadways. In a report prepared for CARB, researchers concluded that the current levels of ambient air pollution in Southern California are associated with

clinically important chronic health effects that have substantial health and economic impacts (Peters, 2004).

The primary authority for siting public schools rests with local school districts which are the designated “lead agencies” for the CEQA environmental analyses. The California Education Code requires public school districts to notify the local planning agency when siting new public schools and the planning agency to determine if the proposed site conforms with the General Plan. If the proposed school is within 500 feet of the edge of a freeway or traffic corridor that has specified minimum average daily traffic counts, the school district is required to determine through specified risk assessment and air dispersion modeling that neither short-term nor long-term exposure poses significant health risks to pupils. Both the California Education Code section 17213 and the California Public Resources Code section 21151.8 require school districts to consult with the AQMD when preparing the environmental assessment. The AQMD verifies all permitted and non-permitted sources of air pollution that might significantly affect health have been identified and evaluated.

Generally, cancer risk will drop off with distance from a ground level pollution source, such as a freeway. Freeways and busy traffic corridors are defined as traffic volume of over 100,000 vehicles per day in urban areas and 50,000 vehicles per day in rural areas (Education Code Section 17312). CARB studies show that air pollution levels can be significantly higher within 500 feet (150 meters) of freeways or busy traffic corridors and then diminish rapidly. Actual concentration of diesel particulate matter will vary at a particular location depending on traffic volume, vehicle mix, prevailing winds and other variables. The decline in the relative concentration of diesel particulate matter as one moves away from the edge of a freeway is illustrated Figure 2-1. These data have been normalized to a receptor located 20 meters from the edge of freeway (i.e., at a distance of 20 m, the receptor is exposed to 100 percent of the diesel particulate matter emissions from the freeway). A downwind distance of 328 feet (100 m) will reduce cancer risk by over 60 percent. If the physical downwind distance is increased to 984 feet (300 m), the relative concentration is reduced over 80 percent.

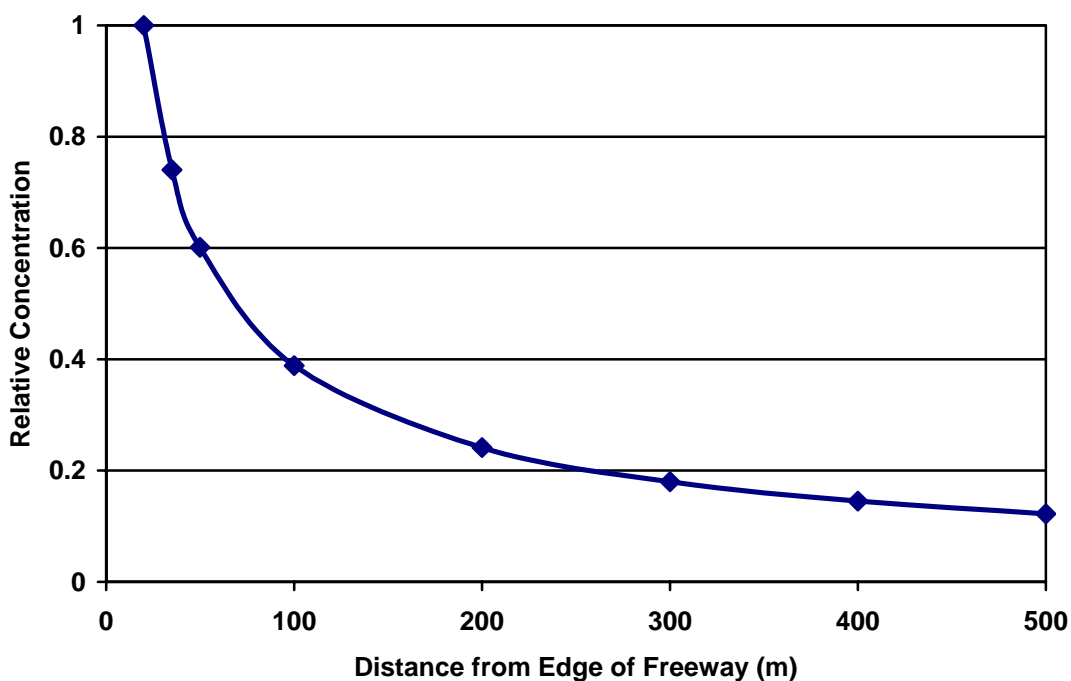


Figure 2-1

**Relative Concentration of Diesel Particulate Matter
in Relation to the Distance from The Edge of a Freeway**

Source: South Coast Air Quality Management District. Adapted from the California Air Resources Board's Diesel Risk Reduction Plan.

A comparison of total cancer risk and cancer risk from diesel particulate matter emissions in rural and urban areas shows that cancer risk associated with elevated levels of diesel particulate both decrease rapidly within the first 100 – 150 meters from the edge of a roadway (Table 2-2). Estimated cancer risk from diesel particulate matter along rural and urban roadways is decreased approximately 68 percent at a distance 150 m (492 ft) from the edge of the roadway. Clearly, these data demonstrate that a minimum distance that separates sources of diesel emissions from nearby receptors is effective in reducing potential cancer risk. The AQMD recognizes that physical separation of the receptors from the pollution sources is not always reasonable or feasible particularly in mature communities. For example, in southern Los Angeles county a sequence of land use decisions in urban areas allowed freeway construction through existing neighborhoods.

Table 2-2

**Cancer Risks from Diesel Particulate Matter at the
Edge of Roadways in Rural and Urban Areas**

Distance from Edge of Roadway (meters)	Diesel Particulate Matter Cancer Risk (in one million)		Total Cancer Risk (in one million)*	
	Rural	Urban	Rural*	Urban*
20 m	475	890	589	1104
150 m	151	277	187	343
500 m	86	159	107	197

Source: South Coast Air Quality Management District. Adapted from the California Air Resources Board's Diesel Risk Reduction Plan.

*To account for gasoline vehicle emissions, the diesel PM risk was multiplied by 1.24. This represents the relative risk contribution from benzene, 1, 3 butadiene, formaldehyde, and acetaldehyde on a basin-wide basis. It is assumed that the vast majority of benzene, 1, 3 butadiene, formaldehyde, and acetaldehyde emissions come from on-road gasoline vehicles.

The AQMD provides guidance for analyzing cancer risks from diesel particulate matter from mobile sources at facilities such as truck stops and warehouse distribution centers in the document titled Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis. This document may be downloaded at <http://www.agmd.gov/ceqa/hdbk.html>. This guidance describes analysis of potential cancer risks associated with diesel particulates from truck idling and movement (such as truck stops, warehouse and distribution centers, or transit centers), ship hotelling at ports, and train idling. It is suggested that projects with diesel-powered mobile sources use this health risk guidance document to quantify potential cancer risks from the diesel particulate emissions.

Projects that incorporate transit nodes may include a range of multiple services ranging from a bus or light rail stop to a combination of services that may include bus, shuttles, light and heavy rail systems. The concept of a “clean” transit node refers to transit services that predominately operate with zero emission vehicles (e.g., electric light rail), clean fuel vehicles (e.g., compressed natural gas or hydrogen), or vehicles powered with low-emission engines (e.g., California certified Super Ultra Low Emissions Vehicles). Projects that emphasize “clean” transit nodes not only minimize VMT, but also reduce the potential health impacts associated with transit-related emissions on individuals living near transit services.

Current USEPA regulations establish fuel registration and formulation requirements. All diesel fuels and all additives for on-road motor vehicles are required to be registered with the USEPA, and all new diesel-fueled on-road and off-road engines and vehicles sold in California are required to meet both federal and state emission certification requirements. In addition, the Carl Moyer Program, administered by CARB and local air

districts, is a clean engine incentive program that incentivizes projects that substantially reduce emissions of oxides of nitrogen (NOx) and fine particulate matter (PM) from heavy-duty diesel engines. Funds are distributed to project proponents through the AQMD to incentivize cost-effective projects. Funds, in the form of grants for private companies, public agencies, or individuals operating heavy-duty diesel engines, cover an incremental portion of the cost of cleaner on-road, off-road, marine, locomotive, and agricultural irrigation pump engines. This framework is also used to award grants for other equipment and for retrofitting or repowering existing engines.

The CARB Diesel Risk Reduction Plan proposes a three-pronged approach that would require use of low-sulfur diesel fuel; retrofitting existing engines with PM filters; and nearly a 90 percent reduction of PM emissions from all new diesel engines and vehicles. A number of adopted and proposed state regulations that will reduce diesel emissions target the following source categories: Heavy-Duty Public Fleets and Private Utilities; Cargo Handling Equipment; Non-Urban Transit Buses; Harbor Craft; Truck Idling from Sleeper Cabs; Off Road and Private On-Road Fleets; Agriculture Equipment; and Ships.

Further, the AQMD has adopted fleet rules that will gradually shift public agencies to lower emissions and alternative fuel vehicles whenever a fleet operator with 15 or more vehicles replaces or purchases new vehicles.

- Rule 1186.1 Less – polluting sweepers
- Rule 1191 Clean On-Road Light and Medium-Duty Public Fleet Vehicle
- Rule 1192 Clean On-Road Transit Buses
- Rule 1193 Clean On-Road Residential and Commercial Refuse Collection Vehicles
- Rule 1194 Commercial Airport Ground Access Vehicles
- Rule 1195 Clean On-Road School Buses
- Rule 1196 Clean On-Road Heavy-duty Public Fleet Vehicles

Air regulatory agencies have collaborated closely with regulated industries, refineries and diesel vehicle manufacturers to establish cleaner fuel specifications and engine technologies. Although AQMD's fleet rules have been challenged, CARB is moving forward with its rulemaking to facilitate the implementation of fleet rules in the South Coast Air Basin that will result in significant emission reductions. In addition, state and federal requirements are the cornerstone of the clean air strategy to clean up diesel pollution in the South Coast district. Combined, the current and planned regulatory efforts by USEPA, CARB and AQMD are expected to substantially lower the average level of diesel emissions per vehicle. CARB or AQMD staff can be contacted to obtain additional information on the current status of rule development.

The goals established by the CARB plan call for a statewide reduction in diesel particulate emissions of 75 percent by 2010 and 85 percent by 2020. AQMD's 2004 addendum to the 2000 Air Toxics Control Plan indicates that full implementation of the 2003 AQMP, including CARB's measures to reduce diesel particulate matter, would reduce basin-wide toxic-weighted emissions by 50 percent. While there continues to be