

AIR QUALITY ASSESSMENT

**Laurel Heights Development
City of Santee, CA**

Project Proponent:

**Cornerstone Communities
4365 Executive Drive, Suite 600
San Diego, CA 92121**

Prepared by:

Ldn Consulting, Inc.

**42428 Chisolm Trail
Murrieta, CA 92562**

March 15, 2021

TABLE OF CONTENTS

TABLE OF CONTENTS	II
LIST OF FIGURES	III
LIST OF TABLES	III
ATTACHMENTS	III
LIST OF COMMON ACRONYMS	IV
EXECUTIVE SUMMARY	V
1.0 INTRODUCTION	1
1.1 PURPOSE OF THIS STUDY	1
1.2 PROJECT LOCATION	1
1.3 PROJECT DESCRIPTION	1
2.0 EXISTING ENVIRONMENTAL SETTING	4
2.1 EXISTING SETTING	4
2.2 CLIMATE (SANTEE)	4
2.3 REGULATORY STANDARDS.....	4
2.3.1 FEDERAL STANDARDS AND DEFINITIONS	4
2.3.2 STATE STANDARDS AND DEFINITIONS.....	6
2.3.3 REGIONAL STANDARDS.....	8
2.4 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) SIGNIFICANCE THRESHOLDS	9
2.5 SDAPCD RULE 20.2 – AIR QUALITY IMPACT ASSESSMENT SCREENING THRESHOLDS	10
2.6 LOCAL AIR QUALITY.....	11
3.0 METHODOLOGY	12
3.1 CONSTRUCTION EMISSIONS CALCULATIONS.....	12
3.2 CONSTRUCTION ASSUMPTIONS	13
3.3 OPERATIONAL EMISSIONS.....	15
3.4 ODOR IMPACTS (ONSITE)	15
4.0 FINDINGS	16
4.1 CONSTRUCTION FINDINGS	16
4.2 HEALTH RISK.....	16
4.3 OPERATIONAL FINDINGS.....	17
4.4 CONCLUSION OF FINDINGS.....	18
5.0 REFERENCES	19
6.0 CERTIFICATIONS	20

List of Figures

FIGURE 1-A: PROJECT VICINITY MAP	2
FIGURE 1-B: PROPOSED PROJECT SITE PLAN	3

List of Tables

TABLE 2.1: AMBIENT AIR QUALITY STANDARDS	7
TABLE 2.2: SAN DIEGO AIR BASIN ATTAINMENT STATUS BY POLLUTANT	9
TABLE 2.3: SCREENING LEVEL THRESHOLDS FOR CRITERIA POLLUTANTS.....	10
TABLE 3.1: EXPECTED CONSTRUCTION EQUIPMENT	14
TABLE 4.1: EXPECTED CONSTRUCTION EMISSIONS SUMMARY (LB/DAY)	16
TABLE 4.2: EXPECTED DAILY POLLUTANT GENERATION	17

Attachments

CALEEMOD 2016.3.2 SUMMER, WINTER, ANNUAL	21
AERSCREEN DISPERSION MODELING RESULTS.....	116
CANCER RISK CALCULATIONS (TIER 3 EQUIPMENT WITH DPF)	121

LIST OF COMMON ACRONYMS

Air Quality Impact Assessments (AQIA)
Assembly Bill 32 (AB32)
Reactive Organic Gas (ROG)
California Environmental Quality Act (CEQA)
Cubic Yards (CY)
Carbon Dioxide (CO₂)
Methane (CH₄)
Nitrous Oxide (N₂O)
Hydrogen Sulfide (H₂S)
Diesel Particulate Matter (DPM)
Level of Service (LOS)
San Diego Air Basin (SDAB)
Specific Plan Area (SPA)
Hazardous Air Pollutants (HAPs)
Toxic Air Contaminants (TACs)
Environmental Protection Agency (EPA)
California Air Resource Board (CARB)
San Diego Air Pollution Control District (SDAPCD)
Vehicle Miles Traveled (VMT)
National ambient air quality standards (NAAQS)
California Ambient Air Quality Standards (CAAQS)
Regional Air Quality Strategy (RAQS)
State Implementation Plan (SIP)

EXECUTIVE SUMMARY

This Air Quality Assessment has been completed to determine the air quality impacts associated with the development of the proposed Laurel Heights 80-Unit multi-family development project. The Project is located at 7737 & 7739 Mission Gorge Road in the City of Santee. The Project proposes building 80 units on 7.0 acres of a 10.38-acre site. Construction of the proposed Project is anticipated to start by 2022 and be fully completed in 2025 and would be executed in a 10-phase approach to meet market conditions. For purposes of this analysis, a more intense schedule was assumed which would identify worst case daily construction emissions and would be more conservative from an air quality perspective.

Project design features (PDFs) have been included in this Project. The applicant has agreed to implement all PDFs, which will be included in the Project's Conditions of Approval and are shown in Section 1.3 of this report.

During construction of the proposed Project, fugitive dust emissions will be expected during grading operations from heavy equipment usage and from construction workers commuting to and from the site. During short-term construction activities, the proposed Project will generate less than significant impacts based on thresholds established by the San Diego Air Pollution Control District (SDAPCD). Also, based on the Project size, emissions and relative location to nearby cumulative projects, the proposed Project would generate less than significant cumulative construction impacts.

Additionally, emissions from the operation of the proposed Project to include project generated traffic would not exceed significance thresholds established by the SDAPCD, and therefore will generate less than significant air quality impacts under CEQA. Furthermore, since the proposed Project has been designed to conform to the City's General Plan, no significant cumulative operational impacts would be expected and the project would not conflict with San Diego County Air Pollution Air District's (SDAPCD) Regional Air Quality Strategy (RAQS).

Finally, a screening-level health risk assessment was conducted to determine the potential for the proposed Project to result in a significant impact on nearby sensitive receptors during short-term construction activities. The result of the health risk assessment indicates that the proposed Project would increase diesel particulates to a level which would not exceed the 10 in one million cancer risk threshold. Given this, no impacts would be expected.

1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this Air Quality Assessment is to determine potential air quality impacts (if any) that may be created by either construction or operational emissions (short term or long term) from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to reduce impacts to the extent feasible.

1.2 Project Location

The Project site is located at 7737 & 7739 Mission Gorge Road in the City of Santee. The Project would be accessed via an on-site private street extended from Aubrey Glen Drive which intersects with Mission Gorge Road. A Project vicinity map is shown in Figure 1-A.

1.3 Project Description

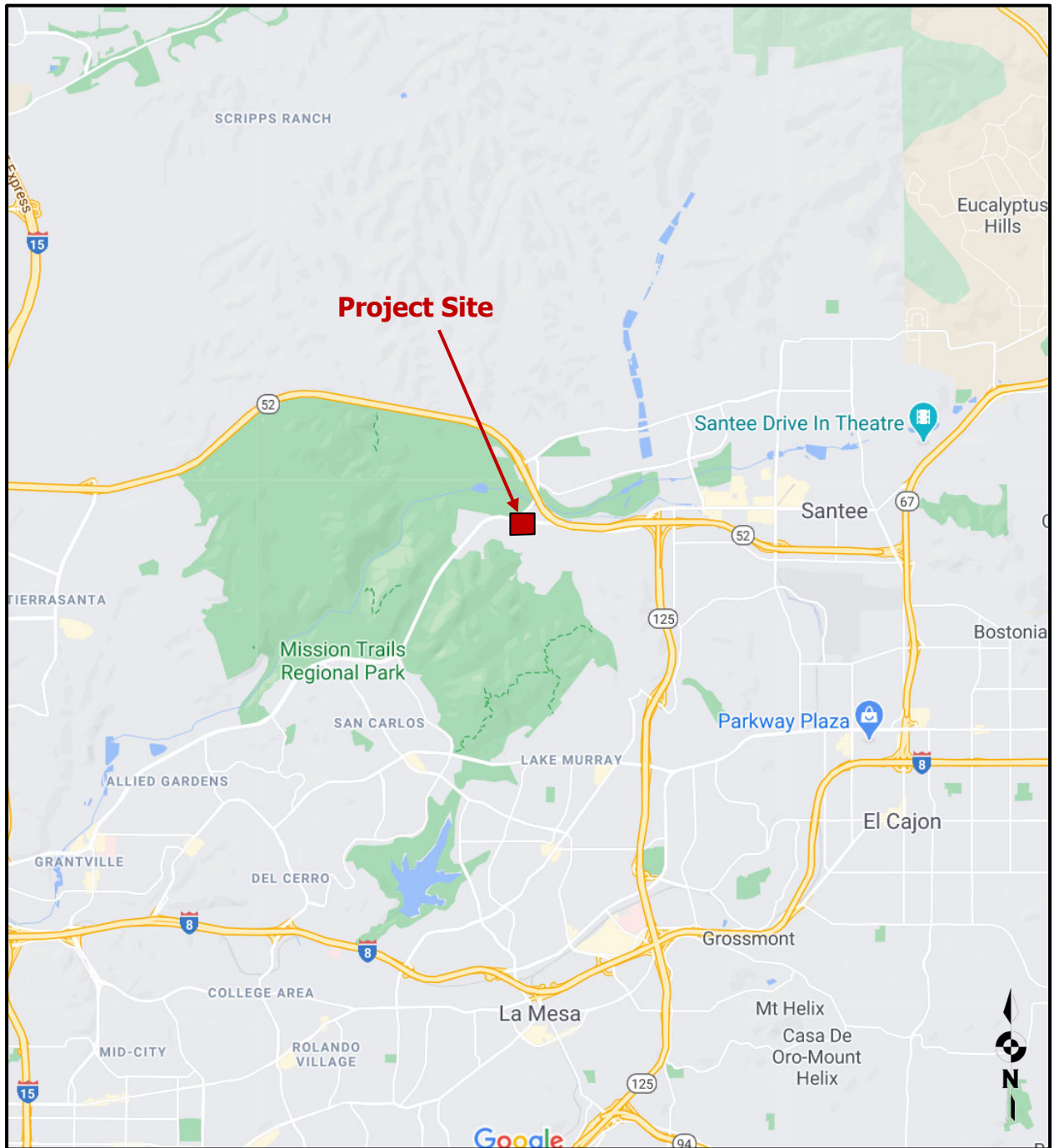
The project is a Development Review Permit (DR2020-#) and Tentative Map (TM2020-#) application for the Laurel Heights Row Homes residential project. The project involves the construction of an 80-unit condominium complex on 7.0 acres of a 10.38-acre property along Mission Gorge Road in the southern portion of the City of Santee. The 80 condominium units would be developed in a row home configuration and clustered into twenty, two-story buildings containing three, four, and five units. The project would include garages as well as 27 parking spaces for guests.

Construction activities would be expected to occur over a three year stretch and would be based on market demands. The project would demolish four existing residential units and a commercial facility.

The proposed site development plan is shown on Figure 1-B. In addition, it should be noted that the proposed Project would implement construction design features to include:

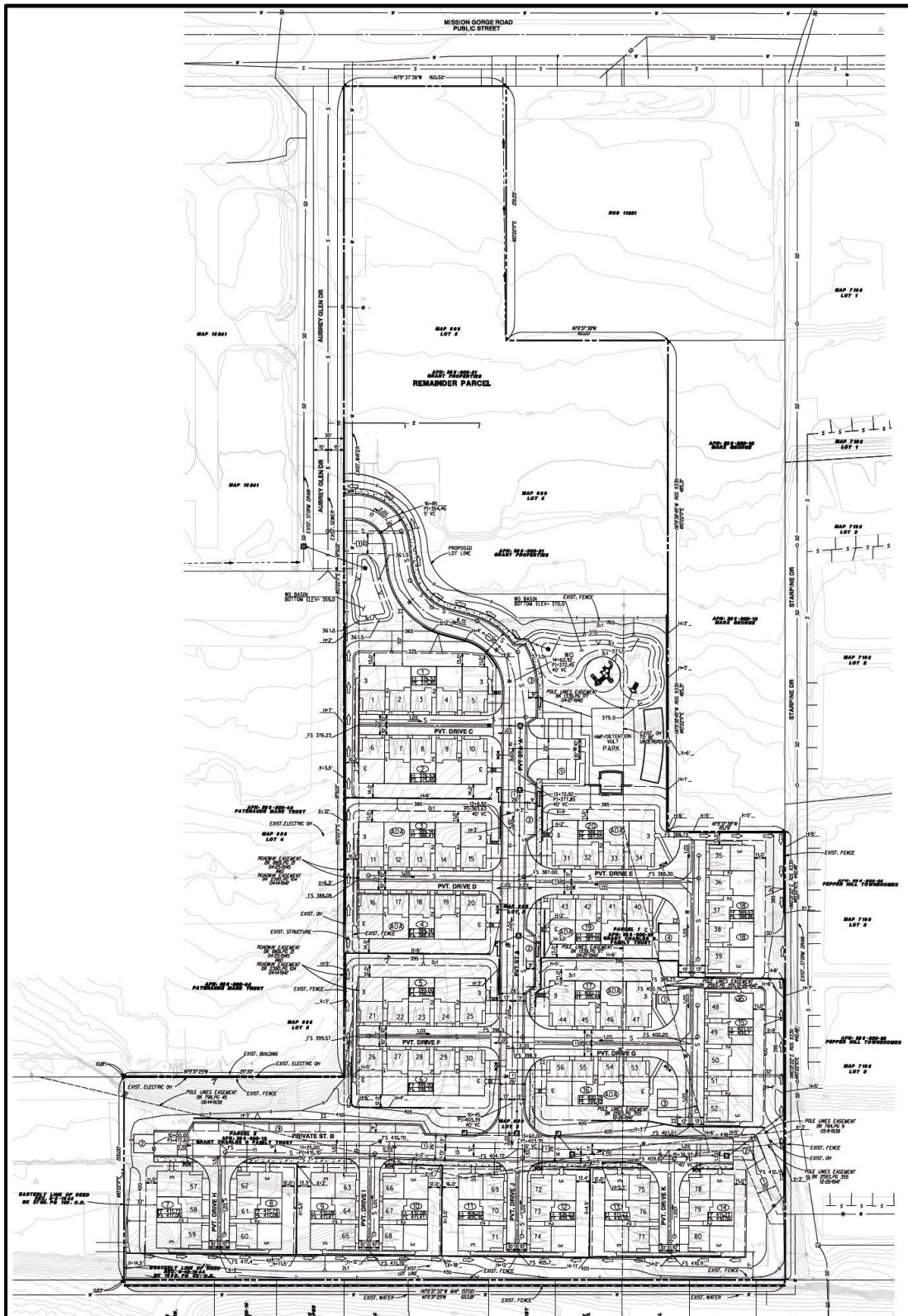
- *Construction Design Feature 1: all heavy diesel construction equipment will be classified as Tier 3 or better with Diesel Particulate Filters (DPF).*
- *Construction Design Feature 2: In accordance with Rule 67 of the California Air Resource Board, only Low VOC paints shall be utilized onsite (100 g/l or less).*
- *Best Management Practice 1: Comply with SDAPCD's fugitive dust rules and fugitive dust control measures which will be provided by the City of San Marcos.*
- *Operational Design Feature 1: All hearth options offered, if any, will be natural gas fired.*

Figure 1-A: Project Vicinity Map



Source: (Google, 2021)

Figure 1-B: Proposed Project Site Plan



Source: (Rick Engineering, 2020)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The Project site lies in the eastern portion of San Diego County, in the City of Santee. The existing site is occupied by Matteson's Florist and is surrounded by residential uses. The Project would demolish four existing residential units and a commercial facility to make way for the proposed Project.

2.2 Climate (Santee)

Climate within the San Diego Air Basin (SDAB) area varies dramatically over short geographical distances due to size and topography. Most of southern California is dominated by high-pressure systems for much of the year, which keeps the high desert mostly sunny and warm. Typically, during the winter months, the high pressure system drops to the south and brings cooler, moister weather from the north. Prevailing winds are generally westerly flowing towards the east for most of the year; however, during the autumn and winter, it is common for strong warm dry winds originating in the desert having a more easterly flow characteristic.

Meteorological trends within the City of Santee are typically cooler given the close vicinity to the ocean. Median temperatures range from approximately 55°F in the winter to approximately 75°F in the summer (City-Data, 2021)

2.3 Regulatory Standards

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This law provides the basis for the national air pollution control effort. An important element of the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. **Primary Standards** set limits for the intention of protecting public health, which includes sensitive populations such as asthmatics, children and elderly. **Secondary Standards** set limits to protect public welfare to include the protection against decreased visibility, damage to animals, crops, vegetation and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set NAAQS for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below:

1. **Carbon Monoxide (CO):** *is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen.*
2. **Lead (Pb):** *is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children.*
3. **Nitrogen Dioxide (NO₂):** *is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air contaminants, NO₂ is usually visible as a reddish-brown air layer over urban areas. NO₂ along with other traffic-related pollutants is associated with respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO₂ above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO₂ exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children.*
4. **Particulate Matter (PM₁₀ or PM_{2.5}):** *is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM₁₀ particles are 10 microns (µm) or less and PM_{2.5} particles are 2.5 (µm) or less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness.*
5. **Ozone (O₃):** *is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics.*
6. **Sulfur Dioxide (SO₂):** *is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO₂ is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO₂ exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO₂ results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.*

2.3.2 State Standards and Definitions

CARB sets the laws and regulations for air quality on the state level. The California Ambient Air Quality Standards (CAAQS) is similar to the NAAQS and also restricts four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. **Visibility Reducing Particles:** *Particles in the Air that obstruct the visibility.*
2. **Sulfates:** *are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain.*
3. **Hydrogen Sulfide (H₂S):** *is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H₂S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H₂S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 Parts per Million (ppm)) can cause a loss of consciousness and possibly death.*
4. **Vinyl Chloride:** *also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC).*

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards						
Pollutant	Average Time	California Standards ¹		Federal Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m3)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m3)		0.070 ppm (137 µg/m3)		
Respirable Particulate Matter (PM10) ⁹	24 Hour	50 µg/m3	Gravimetric or Beta Attenuation	150 µg/m3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m3		-		
Fine Particulate Matter (PM2.5) ⁹	24 Hour	No Separate State Standard		35 µg/m3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m3	Gravimetric or Beta Attenuation	12.0 µg/m3	15 µg/m3	
Carbon Monoxide (CO)	8 hour	9.0 ppm (10mg/m3)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m3)	-	Non-Dispersive Infrared Photometry
	1 hour	20 ppm (23 mg/m3)		35 ppm (40 mg/m3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m3)		-		
Nitrogen Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m3) ⁸	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m3)		0.100 ppm ⁸ (188/ µg/m3)	-	
Sulfur Dioxide (SO ₂) ¹¹	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm ¹⁰ (for Certain Areas)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) ⁹
	24 Hour	0.04 ppm (105 µg/m3)		0.14 ppm ¹⁰ (for Certain Areas) (See Footnote 9)	-	
	3 Hour	-		-	0.5 ppm (1300 µg/m3)	
	1 Hour	0.25 ppm (655 µg/m3)		75 ppb (196 µg/m3)	-	
Lead ^{12,13}	30 Day Average	1.5 µg/m3	Atomic Absorption	-	Same as Primary Standard	- High Volume Sampler and Atomic Absorption
	Calendar Quarter	-		1.5 µg/m3		
	Rolling 3-Month Average	-		0.15 µg/m3		
Visibility Reducing Particles	8 Hour	See footnote 14				
Sulfates	24 Hour	25 µg/m3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m3)	Ultraviolet Fluorescence			
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m3)	Gas Chromatography			

1.

California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2.

National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3.

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

4.

Any equivalent procedure which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5.

National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6.

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

7.

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

8.

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

9.

On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3. The existing national 24- hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3, as was the annual secondary standard of 15 µg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10.

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

11.

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

12.

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

13.

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

14.

In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and “extinction of 0.07 per kilometer” for the statewide and Lake Tahoe Air Basin standards, respectively.

Source:

(California Air Resources Board, 5/4/2016)

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the NAAQS and CAAQS. Air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants are designated as “non-attainment areas” for that pollutant. Currently, there are 15 non-attainment areas for the federal ozone standard and two non-attainment areas for the PM_{2.5} standard and many areas are in non-attainment for PM₁₀ as well. California therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed to attain ambient air quality standards.

The San Diego Air Pollution Control District (SDAPCD) is the government agency which regulates sources of air pollution within the County. Therefore, the SDAPCD developed a RAQS to provide control measures to try to achieve attainment status for state ozone standards with control measures focused on Volatile Organic Compounds (VOCs) and oxides of nitrogen (NO_x). Currently, San Diego is in “non-attainment” status for federal and state O₃ and state PM₁₀ and PM_{2.5}. An attainment plan is available for O₃. The RAQS was adopted in 1992 and has been updated as recently as 2016 which was the latest update incorporating minor changes to the prior 2009 update.

The 2016 update mostly summarizes how the 2009 update has lowered NO_x and VOCs emissions which reduces ozone and clarifies and enhances emission reductions by introducing for discussion three new VOC and four new NO_x reduction measures. NO_x and VOCs are precursors to the formation of ozone in the atmosphere. The criteria pollutant standards are generally attained when each monitor within the region has had no exceedances during the previous three calendar years. A complete listing of the current attainment status for criteria pollutants with respect to both federal and state nonattainment status by pollutants for County is shown in Table 2.2 (SDAPCD, 2019).

The RAQS is largely based on population predictions by the San Diego Association of Governments (SANDAG). Projects that produce less growth than predicted by SANDAG would generally conform to the RAQS. Projects that create more growth than projected by SANDAG may create a significant impact if the Project produces unmitigable air quality emissions or if the Project produces cumulative impacts.

Table 2.2: San Diego Air Basin Attainment Status by Pollutant

Criteria Pollutant	Federal Designation	State Designation
Ozone (8-Hour)	Nonattainment	Nonattainment
Ozone (1-Hour)	Attainment *	Nonattainment
Carbon Monoxide	Attainment	Attainment
PM10	Unclassifiable **	Nonattainment
PM2.5	Attainment	Nonattainment
Nitrogen Dioxide	Attainment	Attainment
Sulfur Dioxide	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Visibility	No Federal Standard	Unclassified
<i>* The federal 1-hour standard of 12 pphm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans.</i> <i>** At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.</i> (SDAPCD, 2019)		

2.4 California Environmental Quality Act (CEQA) Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in Appendix G of the CEQA guidelines and are as follows:

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

- A:* Conflict with or obstruct implementation of the San Diego RAQS or applicable portions of the State Implementation Plan (SIP)?
- B:* Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard (PM10, PM2.5 or exceed quantitative thresholds for O3 precursors, oxides of nitrogen [NOX] and Volatile Organic Compounds [VOCs])?
- C:* Expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations?
- D:* Result in other emission (such as those leading to odors) adversely affecting a substantial number of people?

2.5 SDAPCD Rule 20.2 – Air Quality Impact Assessment Screening Thresholds

The SDAPCD has established threshold in Rule 20.2 for the preparation of Air Quality Impact Assessments (AQIA). These screening criteria can be used to demonstrate that a Project's total emissions would not result in a significant impact as defined by CEQA. Since SDAPCD does not have AQIA threshold for emissions of Volatile Organic Compounds (VOCs), the use of the threshold for VOCs is from the South Coast Air Quality Management District for the Coachella Valley. Should emissions be found to exceed these thresholds, additional modeling is required to demonstrate that the Project's total air quality impacts are below the state and federal ambient air quality standards. These screening thresholds for construction and daily operations are shown in Table 2.3.

Non-Criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that projects that propose to increase cancer risk between 1 and 10 in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. At no time shall the Project increase the cancer risk to over 10 in one million. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology. This report assumes that Volatile Organic Compounds (VOC) and Reactive Organic Gases (ROG) are essentially the same due to the fact that emissions generated from the Project represent non-methane organic compounds.

Table 2.3: Screening Level Thresholds for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	100 and 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75
Operational Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	100 and 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75

2.6 Local Air Quality

Criteria pollutants are measured continuously throughout the San Diego Air Basin. This data is used to track ambient air quality patterns throughout the County. As mentioned earlier, this data is also used to determine attainment status when compared to the NAAQS and CAAQS.

The SDAPCD is responsible for monitoring and reporting monitoring data. The District operates 10 monitoring sites, which collect data on criteria pollutants. Four additional sites collect meteorological data, which is used by the District to assist with pollutant forecasting, data analysis and characterization of pollutant transport.

SDAPCD published the five-year air quality summary for all of the monitoring stations within the San Diego basin (SDAPCD, 2020). The proposed development project is closest to the El Cajon Monitoring station. Table 2.4 identifies the criteria pollutants monitored at the aforementioned station.

Table 2.4: Three-Year Ambient Air Quality Summary near the Project Site

Pollutant	Closest Recorded Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2017	2018	2019	Days Exceeded over 3 years
O ₃ (ppm)	El Cajon-Redwood Avenue	1 Hour	0.09 ppm	No Standard	0.09	0.08	0.09	1
		8 Hour	0.070 ppm	0.070 ppm	0.08	0.08	0.07	13
PM ₁₀ (µg/m3)		24 Hour	50 µg/m3	150 µg/m3	50	43	38	N/A
		Annual Arithmetic Mean	20 µg/m3	No Standard	22.5	22.7	19.3	N/A
PM _{2.5} (µg/m³)		24 Hour	No standard -	35 µg/m3	31.8	36.2	23.8	N/A
		Annual Arithmetic Mean	12 µg/m3	15 µg/m3	9.6	9.6	8.6	N/A
NO ₂ (ppm)		Annual Arithmetic Mean	0.030 ppm	0.053 ppm	0.010	0.007	0.008	N/A
		1 Hour	0.18 ppm	0.100 ppm	0.045	0.045	0.039	N/A
CO (ppm)		1 Hour	20 ppm	35 ppm	1.5	1.5	1.3	N/A
		8 Hour	9 ppm	9 ppm	1.4	1.1	1.0	N/A
SO ₂		24 Hour	0.04 ppm	No Standard	0.000	0.000	0.000	N/A
		1 Hour	0.25 ppm	0.75 ppm	.001	.004	.001	N/A
Notes: 1. - Yearly maximums marked with "-" indicated data was not available for either monitoring station. 2. Days exceeded marked with "N/A" indicate no data available.								

3.0 METHODOLOGY

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using the latest CalEEMod 2016.3.2 air quality model, which was developed by BREEZE Software for South Coast Air Quality Management District (SCAQMD) in 2017. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the Project and uses methodologies presented in the US EPA AP-42 document with emphasis on Chapter 11.9. The CalEEMod input/output model is shown in **Attachment A** to this report.

The AERSCREEN dispersion model was used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model will predict the maximum exposure distance and concentrations. The AERSCREEN input/output file for the proposed Project is shown in **Attachment B**. The worst case exhaust emissions generated from the Project from construction equipment was utilized and calculated within the CalEEMod model.

Once the dispersed concentrations of diesel particulates are estimated in the surrounding air, they are used to evaluate estimated exposure to people. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The worst case cancer risk dose calculation is defined in Equation 1 below (OEHHA, 2015).

Equation 1

$$Dose_{air} = C_{air} * (BR/BW) * A * EF * (1 \times 10^{-6})$$

Dose _{air}	=	Dose through inhalation (mg/kg/d)
C _{air}	=	Concentration in air (µg/m ³) Annual average DPM concentration in µg/m ³ - AERSCREEN predicts a 1-hr concentration and is corrected to an annual average by multiplying the 1-hr average by 0.08 (US EPA, 1992)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10 ⁻⁶	=	Milligrams to micrograms conversion (10 ⁻³ mg/ µg), cubic meters to liters conversion (10 ⁻³ m ³ /l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, the excess cancer risk is calculated separately for each age grouping and then summed to yield

cancer risk for any given location. Specific factors as modeled are shown within the Project models which is provided as **Attachment C** to this report. The worst case cancer risk calculation is defined in Equation 2 below (OEHHA, 2015).

Equation 2 $RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$

RISK _{inh-res}	=	Residential inhalation cancer risk
DOSE _{air}	=	Daily inhalation dose (mg/kg-day)
CPF	=	Inhalation cancer potency factor (mg/kg-day ⁻¹)
ASF	=	Age sensitivity factor for a specified age group (unitless)
ED	=	Exposure duration (in years) for a specified age group
AT	=	Averaging time for lifetime cancer risk (years)
FAH	=	Fraction of time spent at home (unitless)

Office of Environmental Health Hazard Assessment OEHHA recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans.

Exposure durations of 9-years and 70-years are also recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years.

Non-Cancer risks or risks defined as chronic or acute are also known with respect to DPM and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the Office of Environmental Health Hazard Assessment (OEHHA, 2015). Diesel Exhaust has a REL of 5 µg/m³ and targets the respiratory system.

3.2 Construction Assumptions

Project construction date are estimated to occur over a three year period and would be based on market demands. The demolition and earthwork activities would occur at one time followed by the phased condominium development. For purposes of this assessment, the project was analyzed using a more intense construction schedule based on CalEEMod default settings which would be considered more intense with respect to daily air quality emission generation. In other words, spreading the project over a longer duration would generate fewer daily

emissions as the construction intensity would be lower. The model as analyzed would start construction in early 2021 and be completed roughly 14 months later.

The project would demolish roughly 36,000 SF of structures onsite and will export roughly 26,000 cubic yards of materials once grading is complete. The project air quality model has been updated to reflect design features identified in Section 1.3 and would be fully utilized on this project and these PDFs would be made conditions of approval.

Table 3.1 shows the expected timeframes for the construction of all project infrastructure, facilities, and improvements, as well as the expected number of pieces of equipment. Also, again it should be noted that the below would be conservative in the event construction began/ended at a later date as annual code updates and fleet improvements typically have the effect of restricting and limiting emissions on construction equipment over time.

Table 3.1: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Complete	Quantity
Demolition	01/01/2022	01/28/2022	
Concrete/Industrial Saws			1
Excavators			3
Rubber Tired Dozers			2
Site Preparation	01/29/2022	02/11/2022	
Rubber Tired Dozers			3
Tractors/Loaders/Backhoes			4
Grading	02/12/2022	03/11/2022	
Excavators			1
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			3
Paving	03/12/2022	04/08/2022	
Pavers			2
Paving Equipment			2
Rollers			2
Building Construction	04/09/2022	02/24/2023	
Cranes			1
Forklifts			3
Generator Sets			1
Tractors/Loaders/Backhoes			3
Welders			1
Architectural Coating	01/01/2023	02/24/2023	
Air Compressors			1
This equipment list is based upon equipment inventory within CalEEMod. The quantity and types are based upon assumptions provided by the Project applicant.			

3.3 Operational Emissions

Once construction is completed, the proposed Project would generate emissions from daily operations which would include sources such as Area, Energy, Mobile, Waste and Water uses, which are also calculated within CalEEMod. Area Sources include consumer products, landscaping, architectural coatings as well as hearth usage. For purposes of this analysis, all hearth options would be natural gas fired as identified in Section 1.3 of this report. Air quality emissions derived from energy sources would be from onsite natural gas use. Finally, mobile or transportation related emissions are calculated in CalEEMod. The Operational model is also shown in **Attachment A** at the end of this report.

The Traffic inputs for the project were based on CalEEMod defaults. It is noted that the site is an existing site which includes both residential and commercial activities. No corrections or credits were taken as part of this analysis for the existing operational air quality emissions onsite. Additionally, it was assumed that an average of 10% of the structural surface area will be re-painted each year. Finally, since the Project would not be installing hearth options, CalEEMod default hearth settings were modified to represent no hearth options.

3.4 Odor Impacts (Onsite)

Potential onsite odor generators would include short-term construction odors from activities such as paving and possibly painting. Since the activities are “short-term” construction odors are not typically considered a significant impact. Long-term odor impacts would not be expected because uses proposed under the proposed Project would not generate offensive odors.

4.0 FINDINGS

4.1 Construction Findings

Construction emissions in pounds per day from the construction activities and equipment identified in Section 3.2 above is shown in Table 4.1 below. Based on these numbers, the proposed Project would not exceed City standards, and would not require mitigation.

Table 4.1: Expected Construction Emissions Summary (lb/day)

Year	ROG	NO_x	CO	SO₂	PM₁₀ (Dust)	PM₁₀ (Exhaust)	PM₁₀ (Total)	PM_{2.5} (Dust)	PM_{2.5} (Exhaust)	PM_{2.5} (Total)
2022	1.03	20.27	25.55	0.05	18.21	0.14	18.36	9.97	0.14	10.11
2023	26.09	16.48	21.63	0.04	0.68	0.15	0.83	0.18	0.15	0.34
Significance Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
Exceeds Thresholds?	No	No	No	No	-	-	No	-	-	No

Given these findings, project emissions would not exceed SDAPCD air quality standards during construction. No mitigation measures will be necessary. Given the proposed Project has no direct impacts and the proposed Project is compatible with the general plan land use designation, there would not be any impacts to any RAQS

4.2 Health Risk

The health risk impacts are based on diesel equipment used onsite during construction. Based on section 3.2 of this analysis, the project would utilize at least Tier 3 equipment with DPF. Modeling outputs show that the total onsite emissions over the construction duration would generate 0.0199 tons cumulatively between start and completion dates analyzed or 419 calendar days or an average of .0005 grams/second.

Utilizing the AERSCREEN dispersion model, we find that the peak maximum 1-hr concentration is 0.4314 µg/m³ during the worst-case construction period. Converting the peak 1-hr concentration to an annual concentration by multiplying it by 0.08 (US EPA, 1992) yields an annual concentration of 0.0345 µg/m³. Therefore, utilizing the risk equation identified above in Section 3.1, the worst case inhalation cancer risk is 7.03 per million exposed at 125 meters from the geometric centroid of the Project. It should be noted again that a Project design feature would be to utilize Tier 3 or better diesel equipment with DPF and would therefore be a condition to the proposed Project. Given this, the construction scenario analyzed would be

considered less than significant under CEQA and would be in compliance with the City's thresholds.

There are known acute and chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1 of this report. From this we find that the hourly concentration of $0.4314 \mu\text{g}/\text{m}^3$ divided by the REL of $5 \mu\text{g}/\text{m}^3$ yields a Health Hazard Index of less than one. Therefore, no non-cancer risks are expected and all health risks are considered less than significant.

Furthermore, based on discussions with the Project applicant, cumulatively considerable construction projects near the site would be greater than $\frac{1}{2}$ mile from the site. Since the highest concentrations identified within the modeling are 125 meters from the project centroid and since air quality emissions disperse rapidly radially away from the project site, cumulative construction impacts would not be expected as mixing of the project plumes would not likely occur. Given this, simultaneous construction activities of any nearby projects would generate a less than significant cumulative air quality impact.

4.3 Operational Findings

The daily pollutant emissions as calculated within CalEEMod are shown in Table 4.2 below. Based on this analysis, the proposed Project would generate a less than significant direct operational impact. Since the Project would not exceed significance thresholds and because the proposed Project has been designed to conform with the City's General Plan, a less than significant cumulative operational impact would also be expected and the proposed Project would not conflict with SDAPCDs RAQS.

Table 4.2: Expected Daily Pollutant Generation

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer Scenario						
Total (Lb/Day)	3.05	4.21	15.31	0.04	3.01	0.94
City Thresholds	75	250	550	250	100	55
Exceeds Thresholds?	No	No	No	No	No	No
Winter Scenario						
Total (Lb/Day)	3.03	4.28	15.12	0.04	3.01	0.94
City Thresholds	75	250	550	250	100	55
Exceeds Thresholds?	No	No	No	No	No	No

4.4 Conclusion of Findings

During construction of the proposed Project, fugitive dust emissions will be expected during grading operations from heavy equipment usage and from construction workers commuting to and from the site. During short-term construction activities, the proposed Project will generate less than significant impacts based on thresholds established by the San Diego Air Pollution Control District (SDAPCD) and will NOT require mitigation. Also, based on the Project size, emissions and relative location to nearby cumulative projects, the proposed Project would generate less than significant cumulative construction impacts.

Operational air quality emissions from the proposed Project including project generated traffic would not exceed significance thresholds established by the SDAPCD and will have a less than significant air quality impacts on the environment. The Project has been designed to conform to the City's General Plan and since direct air quality impacts are less than significant, cumulative operational impacts would also be less than significant. Furthermore, because of this, the proposed Project would not conflict with the Regional Air Quality Strategy (RAQS).

A screening-level health risk assessment was conducted to determine the potential for the proposed Project to result in a significant impact on nearby sensitive receptors during short-term construction activities. The result of the health risk assessment indicates that the proposed Project would increase diesel particulates to a level which would not exceed the 10 in one million cancer risk threshold. Given this, less than significant health risk impacts would be expected.

Project design features (PDFs) have been included in this Project. The applicant has agreed to implement all PDFs, which will be included in the Project's Conditions of Approval and are shown in Section 1.3 of this report.

5.0 REFERENCES

- California Air Resources Board. (5/4/2016). *www.arb.ca.gov*. Retrieved from Ambient Air Quality Standards: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>
- City-Data. (2021). *Average climate in Santee, California*. Retrieved from <http://www.city-data.com/city/Santee-California.html?viewType=Print&viewClass=Print>
- Google. (2021). Retrieved 2021, from maps.google.com
- OEHHA. (2015). *Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments*. OEHHHA. Retrieved from http://oehha.ca.gov/air/hot_spots/2015/2015GuidanceManual.pdf
- OEHHA. (February 2015). *Air Toxics Hot Spots Program - Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments*. OEHHA.
- Rick Engineering. (2020). *Laurel Heights Site Plan*.
- SDAPCD. (2019). Retrieved 2018, from <https://www.sdapcd.org/content/sdc/apcd/en/air-quality-planning/attainment-status.html>
- SDAPCD. (2020). *5 year air quality summary report*. Retrieved April 14, 2016, from https://www.sandiegocounty.gov/content/dam/sdc/apcd/monitoring/5-Year_Air_Quality.pdf
- US EPA. (1992). *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources Revised*. US EPA. Retrieved from http://www.epa.gov/scram001/guidance/guide/EPA-454R-92-019_OCR.pdf

6.0 CERTIFICATIONS

The contents of this report represent an accurate depiction of the air quality environment and impacts within and surrounding the proposed development. This report was prepared utilizing the latest emission rates and reduction methodologies.

DRAFT

Jeremy Loudon, Principal
Ldn Consulting, Inc.
jloudon@ldnconsulting.net
760-473-1253

Date March 15, 2021

ATTACHMENT A

CalEEMod 2016.3.2 Summer, Winter, Annual

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

Laurel Heights - 80 Unit Multi-Family

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	27.00	Space	0.25	10,800.00	0
Condo/Townhouse	80.00	Dwelling Unit	6.75	80,000.00	229

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

Project Characteristics -

Land Use - 7 ac out of 10.38 disturbed

Construction Phase - cs

Off-road Equipment -

Trips and VMT -

Demolition -

Architectural Coating - SDAPCD Rule 67 VOC paint standars

Vehicle Trips - traffic CalEE Default

Woodstoves - Natural Gas hearth

Area Coating - SDAPCD Rule 67 VOC paint standards

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - tier 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
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	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	NumberGas	44.00	80.00
tblFireplaces	NumberNoFireplace	8.00	0.00
tblFireplaces	NumberWood	28.00	0.00
tblGrading	MaterialExported	0.00	17,420.00
tblGrading	MaterialExported	0.00	8,580.00
tblLandUse	LotAcreage	0.24	0.25
tblLandUse	LotAcreage	5.00	6.75
tblVehicleTrips	HO_TTP	39.60	39.00
tblVehicleTrips	HS_TTP	18.80	19.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblWoodstoves	NumberCatalytic	4.00	0.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

tblWoodstoves	:	NumberNoncatalytic	:	4.00	:	0.00
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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					
2022	3.2290	33.1204	21.4751	0.0462	18.2141	1.6136	19.8277	9.9699	1.4845	11.4544	0.0000	4,548.876 6	4,548.876 6	1.1960	0.0000	4,576.783 7
2023	27.1193	16.5840	19.9757	0.0381	0.6756	0.7755	1.4511	0.1807	0.7338	0.9145	0.0000	3,676.354 7	3,676.354 7	0.6576	0.0000	3,692.794 5
Maximum	27.1193	33.1204	21.4751	0.0462	18.2141	1.6136	19.8277	9.9699	1.4845	11.4544	0.0000	4,548.876 6	4,548.876 6	1.1960	0.0000	4,576.783 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.0308	20.2672	25.5549	0.0462	18.2141	0.1429	18.3570	9.9699	0.1429	10.1127	0.0000	4,548.876 6	4,548.876 6	1.1960	0.0000	4,576.783 7
2023	26.0882	16.4791	21.6267	0.0381	0.6756	0.1547	0.8303	0.1807	0.1544	0.3351	0.0000	3,676.354 7	3,676.354 7	0.6576	0.0000	3,692.794 5
Maximum	26.0882	20.2672	25.5549	0.0462	18.2141	0.1547	18.3570	9.9699	0.1544	10.1127	0.0000	4,548.876 6	4,548.876 6	1.1960	0.0000	4,576.783 7

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

	ROG	NOx	CO	SO2	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	10.64	26.07	-13.83	0.00	0.00	87.54	9.83	0.00	86.60	15.53	0.00	0.00	0.00	0.00	0.00	0.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605
Energy	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
Mobile	0.6738	2.5189	8.0183	0.0302	2.8177	0.0225	2.8401	0.7530	0.0209	0.7739		3,075.8505	3,075.8505	0.1468		3,079.5204
Total	3.0526	4.2125	15.3067	0.0409	2.8177	0.1898	3.0075	0.7530	0.1883	0.9412	0.0000	5,152.7294	5,152.7294	0.1978	0.0379	5,168.9561

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605
Energy	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
Mobile	0.6738	2.5189	8.0183	0.0302	2.8177	0.0225	2.8401	0.7530	0.0209	0.7739		3,075.8505	3,075.8505	0.1468		3,079.5204
Total	3.0526	4.2125	15.3067	0.0409	2.8177	0.1898	3.0075	0.7530	0.1883	0.9412	0.0000	5,152.7294	5,152.7294	0.1978	0.0379	5,168.9561

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/11/2022	5	10	
3	Grading	Grading	2/12/2022	3/11/2022	5	20	
4	Paving	Paving	3/12/2022	4/8/2022	5	20	
5	Building Construction	Building Construction	4/9/2022	2/24/2023	5	230	
6	Architectural Coating	Architectural Coating	1/1/2023	2/24/2023	5	40	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 10****Acres of Paving: 0.25****Residential Indoor: 162,000; Residential Outdoor: 54,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 648 (Architectural Coating – sqft)****OffRoad Equipment**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	164.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	62.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7939	0.0000	1.7939	0.2717	0.0000	0.2717			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	1.7939	1.2427	3.0366	0.2717	1.1553	1.4269		3,746.7812	3,746.7812	1.0524		3,773.0920

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.2 Demolition - 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	0.0572	1.9235	0.5111	6.2300e-003	0.1433	5.4300e-003	0.1487	0.0393	5.2000e-003	0.0445		684.4115	684.4115	0.0607		685.9278
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	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639
Total	0.1062	1.9542	0.8810	7.4100e-003	0.2665	6.2600e-003	0.2728	0.0720	5.9700e-003	0.0779		802.0954	802.0954	0.0639		803.6917

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					1.7939	0.0000	1.7939	0.2717	0.0000	0.2717			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.1294	0.1294		0.1294	0.1294	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.9246	18.3130	24.6739	0.0388	1.7939	0.1294	1.9234	0.2717	0.1294	0.4011	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.2 Demolition - 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	0.0572	1.9235	0.5111	6.2300e-003	0.1433	5.4300e-003	0.1487	0.0393	5.2000e-003	0.0445		684.4115	684.4115	0.0607		685.9278
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	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639
Total	0.1062	1.9542	0.8810	7.4100e-003	0.2665	6.2600e-003	0.2728	0.0720	5.9700e-003	0.0779		802.0954	802.0954	0.0639		803.6917

3.3 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.3 Site Preparation - 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	0.0589	0.0369	0.4440	1.4200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		141.2208	141.2208	3.8400e-003		141.3166
Total	0.0589	0.0369	0.4440	1.4200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		141.2208	141.2208	3.8400e-003		141.3166

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.1419	0.1419		0.1419	0.1419	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.9312	19.0656	22.9600	0.0380	18.0663	0.1419	18.2082	9.9307	0.1419	10.0726	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.3 Site Preparation - 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	0.0589	0.0369	0.4440	1.4200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		141.2208	141.2208	3.8400e-003		141.3166
Total	0.0589	0.0369	0.4440	1.4200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		141.2208	141.2208	3.8400e-003		141.3166

3.4 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331		2,872.0464	2,872.0464	0.9289		2,895.2684

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.4 Grading - 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	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639
Total	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.1133	0.1133		0.1133	0.1133	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	0.7263	14.8397	18.9906	0.0297	6.5523	0.1133	6.6657	3.3675	0.1133	3.4808	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.4 Grading - 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	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639
Total	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1356	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.5 Paving - 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	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639
Total	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639

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	0.5609	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5937	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.5 Paving - 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	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639
Total	0.0491	0.0307	0.3700	1.1800e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		117.6840	117.6840	3.2000e-003		117.7639

3.6 Building Construction - 2022**Unmitigated Construction On-Site**

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

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0281	0.9623	0.2458	2.6800e-003	0.0677	1.8400e-003	0.0695	0.0195	1.7600e-003	0.0213		288.6138	288.6138	0.0202		289.1183
Worker	0.2027	0.1271	1.5292	4.8800e-003	0.5093	3.4400e-003	0.5128	0.1351	3.1700e-003	0.1383		486.4270	486.4270	0.0132		486.7573
Total	0.2309	1.0894	1.7749	7.5600e-003	0.5770	5.2800e-003	0.5823	0.1546	4.9300e-003	0.1595		775.0408	775.0408	0.0334		775.8756

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	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0281	0.9623	0.2458	2.6800e-003	0.0677	1.8400e-003	0.0695	0.0195	1.7600e-003	0.0213		288.6138	288.6138	0.0202		289.1183
Worker	0.2027	0.1271	1.5292	4.8800e-003	0.5093	3.4400e-003	0.5128	0.1351	3.1700e-003	0.1383		486.4270	486.4270	0.0132		486.7573
Total	0.2309	1.0894	1.7749	7.5600e-003	0.5770	5.2800e-003	0.5823	0.1546	4.9300e-003	0.1595		775.0408	775.0408	0.0334		775.8756

3.6 Building Construction - 2023**Unmitigated Construction On-Site**

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

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7576	0.2251	2.6000e-003	0.0677	8.9000e-004	0.0686	0.0195	8.5000e-004	0.0203		281.3170	281.3170	0.0185		281.7789
Worker	0.1920	0.1160	1.4205	4.6900e-003	0.5093	3.3700e-003	0.5127	0.1351	3.1100e-003	0.1382		467.8316	467.8316	0.0121		468.1339
Total	0.2136	0.8736	1.6456	7.2900e-003	0.5770	4.2600e-003	0.5813	0.1546	3.9600e-003	0.1585		749.1486	749.1486	0.0306		749.9128

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	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0217	0.7576	0.2251	2.6000e-003	0.0677	8.9000e-004	0.0686	0.0195	8.5000e-004	0.0203		281.3170	281.3170	0.0185		281.7789
Worker	0.1920	0.1160	1.4205	4.6900e-003	0.5093	3.3700e-003	0.5127	0.1351	3.1100e-003	0.1382		467.8316	467.8316	0.0121		468.1339
Total	0.2136	0.8736	1.6456	7.2900e-003	0.5770	4.2600e-003	0.5813	0.1546	3.9600e-003	0.1585		749.1486	749.1486	0.0306		749.9128

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.1041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	25.2958	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0225	0.2749	9.1000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		90.5481	90.5481	2.3400e-003		90.6066
Total	0.0372	0.0225	0.2749	9.1000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		90.5481	90.5481	2.3400e-003		90.6066

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	25.1041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690
Total	25.1635	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0372	0.0225	0.2749	9.1000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		90.5481	90.5481	2.3400e-003		90.6066
Total	0.0372	0.0225	0.2749	9.1000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		90.5481	90.5481	2.3400e-003		90.6066

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6738	2.5189	8.0183	0.0302	2.8177	0.0225	2.8401	0.7530	0.0209	0.7739		3,075.8505	3,075.8505	0.1468		3,079.5204
Unmitigated	0.6738	2.5189	8.0183	0.0302	2.8177	0.0225	2.8401	0.7530	0.0209	0.7739		3,075.8505	3,075.8505	0.1468		3,079.5204

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	464.80	453.60	387.20	1,292,793	1,292,793
Parking Lot	0.00	0.00	0.00		
Total	464.80	453.60	387.20	1,292,793	1,292,793

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
Condo/Townhouse	10.80	7.30	7.50	42.00	19.00	39.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Parking Lot	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
NaturalGas Unmitigated	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

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					
Condo/Townhouse	3152.41	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
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
Total		0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751

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					
Condo/Townhouse	3.15241	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
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
Total		0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751

6.0 Area Detail**6.1 Mitigation Measures Area**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605
Unmitigated	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2751					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7158					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1553	1.3271	0.5647	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,694.1177	1,694.1177	0.0325	0.0311	1,704.1849
Landscaping	0.1986	0.0760	6.6001	3.5000e-004		0.0366	0.0366		0.0366	0.0366		11.8901	11.8901	0.0114		12.1756
Total	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2751					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7158					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1553	1.3271	0.5647	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,694.1177	1,694.1177	0.0325	0.0311	1,704.1849
Landscaping	0.1986	0.0760	6.6001	3.5000e-004		0.0366	0.0366		0.0366	0.0366		11.8901	11.8901	0.0114		12.1756
Total	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Laurel Heights - 80 Unit Multi-Family - San Diego County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

Laurel Heights - 80 Unit Multi-Family

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	27.00	Space	0.25	10,800.00	0
Condo/Townhouse	80.00	Dwelling Unit	6.75	80,000.00	229

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

Project Characteristics -

Land Use - 7 ac out of 10.38 disturbed

Construction Phase - cs

Off-road Equipment -

Trips and VMT -

Demolition -

Architectural Coating - SDAPCD Rule 67 VOC paint standars

Vehicle Trips - traffic CalEE Default

Woodstoves - Natural Gas hearth

Area Coating - SDAPCD Rule 67 VOC paint standards

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - tier 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	NumberGas	44.00	80.00
tblFireplaces	NumberNoFireplace	8.00	0.00
tblFireplaces	NumberWood	28.00	0.00
tblGrading	MaterialExported	0.00	17,420.00
tblGrading	MaterialExported	0.00	8,580.00
tblLandUse	LotAcreage	0.24	0.25
tblLandUse	LotAcreage	5.00	6.75
tblVehicleTrips	HO_TTP	39.60	39.00
tblVehicleTrips	HS_TTP	18.80	19.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblWoodstoves	NumberCatalytic	4.00	0.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

tblWoodstoves	:	NumberNoncatalytic	:	4.00	:	0.00
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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					
2022	3.2371	33.1249	21.4829	0.0461	18.2141	1.6136	19.8277	9.9699	1.4845	11.4544	0.0000	4,529.7279	4,529.7279	1.1958	0.0000	4,557.6781
2023	27.1526	16.5974	19.8891	0.0377	0.6756	0.7755	1.4511	0.1807	0.7339	0.9146	0.0000	3,634.9405	3,634.9405	0.6578	0.0000	3,651.3847
Maximum	27.1526	33.1249	21.4829	0.0461	18.2141	1.6136	19.8277	9.9699	1.4845	11.4544	0.0000	4,529.7279	4,529.7279	1.1958	0.0000	4,557.6781

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.0391	20.2853	25.5627	0.0461	18.2141	0.1429	18.3570	9.9699	0.1429	10.1127	0.0000	4,529.7279	4,529.7279	1.1958	0.0000	4,557.6781
2023	26.1215	16.4926	21.5402	0.0377	0.6756	0.1548	0.8304	0.1807	0.1544	0.3351	0.0000	3,634.9405	3,634.9405	0.6578	0.0000	3,651.3847
Maximum	26.1215	20.2853	25.5627	0.0461	18.2141	0.1548	18.3570	9.9699	0.1544	10.1127	0.0000	4,529.7279	4,529.7279	1.1958	0.0000	4,557.6781

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.63	26.03	-13.85	0.00	0.00	87.54	9.83	0.00	86.60	15.53	0.00	0.00	0.00	0.00	0.00	0.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605
Energy	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
Mobile	0.6517	2.5899	7.8301	0.0287	2.8177	0.0226	2.8402	0.7530	0.0210	0.7740		2,919.6604	2,919.6604	0.1471		2,923.3389
Total	3.0306	4.2835	15.1185	0.0393	2.8177	0.1899	3.0076	0.7530	0.1884	0.9413	0.0000	4,996.5394	4,996.5394	0.1981	0.0379	5,012.7746

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605
Energy	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
Mobile	0.6517	2.5899	7.8301	0.0287	2.8177	0.0226	2.8402	0.7530	0.0210	0.7740		2,919.6604	2,919.6604	0.1471		2,923.3389
Total	3.0306	4.2835	15.1185	0.0393	2.8177	0.1899	3.0076	0.7530	0.1884	0.9413	0.0000	4,996.5394	4,996.5394	0.1981	0.0379	5,012.7746

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/11/2022	5	10	
3	Grading	Grading	2/12/2022	3/11/2022	5	20	
4	Paving	Paving	3/12/2022	4/8/2022	5	20	
5	Building Construction	Building Construction	4/9/2022	2/24/2023	5	230	
6	Architectural Coating	Architectural Coating	1/1/2023	2/24/2023	5	40	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 10****Acres of Paving: 0.25****Residential Indoor: 162,000; Residential Outdoor: 54,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 648 (Architectural Coating – sqft)****OffRoad Equipment**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	164.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	62.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7939	0.0000	1.7939	0.2717	0.0000	0.2717			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	1.7939	1.2427	3.0366	0.2717	1.1553	1.4269		3,746.7812	3,746.7812	1.0524		3,773.0920

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.2 Demolition - 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	0.0588	1.9379	0.5418	6.1200e-003	0.1433	5.5600e-003	0.1488	0.0393	5.3100e-003	0.0446		672.4679	672.4679	0.0626		674.0318
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0558	0.0345	0.3470	1.1100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		110.4788	110.4788	3.0200e-003		110.5543
Total	0.1145	1.9724	0.8888	7.2300e-003	0.2665	6.3900e-003	0.2729	0.0720	6.0800e-003	0.0780		782.9467	782.9467	0.0656		784.5861

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					1.7939	0.0000	1.7939	0.2717	0.0000	0.2717			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.1294	0.1294		0.1294	0.1294	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.9246	18.3130	24.6739	0.0388	1.7939	0.1294	1.9234	0.2717	0.1294	0.4011	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.2 Demolition - 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	0.0588	1.9379	0.5418	6.1200e-003	0.1433	5.5600e-003	0.1488	0.0393	5.3100e-003	0.0446		672.4679	672.4679	0.0626		674.0318
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0558	0.0345	0.3470	1.1100e-003	0.1232	8.3000e-004	0.1241	0.0327	7.7000e-004	0.0335		110.4788	110.4788	3.0200e-003		110.5543
Total	0.1145	1.9724	0.8888	7.2300e-003	0.2665	6.3900e-003	0.2729	0.0720	6.0800e-003	0.0780		782.9467	782.9467	0.0656		784.5861

3.3 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.3 Site Preparation - 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	0.0669	0.0414	0.4164	1.3300e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		132.5746	132.5746	3.6200e-003		132.6651
Total	0.0669	0.0414	0.4164	1.3300e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		132.5746	132.5746	3.6200e-003		132.6651

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.1419	0.1419		0.1419	0.1419	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.9312	19.0656	22.9600	0.0380	18.0663	0.1419	18.2082	9.9307	0.1419	10.0726	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.3 Site Preparation - 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	0.0669	0.0414	0.4164	1.3300e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		132.5746	132.5746	3.6200e-003		132.6651
Total	0.0669	0.0414	0.4164	1.3300e-003	0.1479	1.0000e-003	0.1489	0.0392	9.2000e-004	0.0401		132.5746	132.5746	3.6200e-003		132.6651

3.4 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	6.5523	0.9409	7.4932	3.3675	0.8656	4.2331		2,872.0464	2,872.0464	0.9289		2,895.2684

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.4 Grading - 2022**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.1133	0.1133		0.1133	0.1133	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	0.7263	14.8397	18.9906	0.0297	6.5523	0.1133	6.6657	3.3675	0.1133	3.4808	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.4 Grading - 2022**Mitigated Construction Off-Site**

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

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1356	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.5 Paving - 2022**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0328					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5937	11.2952	17.2957	0.0228		0.0914	0.0914		0.0914	0.0914	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.5 Paving - 2022**Mitigated Construction Off-Site**

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

3.6 Building Construction - 2022**Unmitigated Construction On-Site**

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

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	0.9591	0.2736	2.6100e-003	0.0677	1.9200e-003	0.0696	0.0195	1.8300e-003	0.0213		281.1026	281.1026	0.0214		281.6377
Worker	0.2305	0.1426	1.4344	4.5800e-003	0.5093	3.4400e-003	0.5128	0.1351	3.1700e-003	0.1383		456.6459	456.6459	0.0125		456.9576
Total	0.2601	1.1017	1.7080	7.1900e-003	0.5770	5.3600e-003	0.5824	0.1546	5.0000e-003	0.1596		737.7485	737.7485	0.0339		738.5953

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	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	0.9591	0.2736	2.6100e-003	0.0677	1.9200e-003	0.0696	0.0195	1.8300e-003	0.0213		281.1026	281.1026	0.0214		281.6377
Worker	0.2305	0.1426	1.4344	4.5800e-003	0.5093	3.4400e-003	0.5128	0.1351	3.1700e-003	0.1383		456.6459	456.6459	0.0125		456.9576
Total	0.2601	1.1017	1.7080	7.1900e-003	0.5770	5.3600e-003	0.5824	0.1546	5.0000e-003	0.1596		737.7485	737.7485	0.0339		738.5953

3.6 Building Construction - 2023**Unmitigated Construction On-Site**

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

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0229	0.7542	0.2471	2.5400e-003	0.0677	9.4000e-004	0.0686	0.0195	9.0000e-004	0.0204		274.0693	274.0693	0.0195		274.5564
Worker	0.2188	0.1302	1.3295	4.4100e-003	0.5093	3.3700e-003	0.5127	0.1351	3.1100e-003	0.1382		439.2057	439.2057	0.0114		439.4905
Total	0.2417	0.8844	1.5766	6.9500e-003	0.5770	4.3100e-003	0.5813	0.1546	4.0100e-003	0.1586		713.2750	713.2750	0.0309		714.0469

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	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.6739	14.2261	17.8738	0.0269		0.1355	0.1355		0.1355	0.1355	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0229	0.7542	0.2471	2.5400e-003	0.0677	9.4000e-004	0.0686	0.0195	9.0000e-004	0.0204		274.0693	274.0693	0.0195		274.5564
Worker	0.2188	0.1302	1.3295	4.4100e-003	0.5093	3.3700e-003	0.5127	0.1351	3.1100e-003	0.1382		439.2057	439.2057	0.0114		439.4905
Total	0.2417	0.8844	1.5766	6.9500e-003	0.5770	4.3100e-003	0.5813	0.1546	4.0100e-003	0.1586		713.2750	713.2750	0.0309		714.0469

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.1041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	25.2958	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0424	0.0252	0.2573	8.5000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		85.0075	85.0075	2.2100e-003		85.0627
Total	0.0424	0.0252	0.2573	8.5000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		85.0075	85.0075	2.2100e-003		85.0627

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	25.1041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690
Total	25.1635	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0424	0.0252	0.2573	8.5000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		85.0075	85.0075	2.2100e-003		85.0627
Total	0.0424	0.0252	0.2573	8.5000e-004	0.0986	6.5000e-004	0.0992	0.0262	6.0000e-004	0.0268		85.0075	85.0075	2.2100e-003		85.0627

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6517	2.5899	7.8301	0.0287	2.8177	0.0226	2.8402	0.7530	0.0210	0.7740		2,919.6604	2,919.6604	0.1471		2,923.3389
Unmitigated	0.6517	2.5899	7.8301	0.0287	2.8177	0.0226	2.8402	0.7530	0.0210	0.7740		2,919.6604	2,919.6604	0.1471		2,923.3389

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	464.80	453.60	387.20	1,292,793	1,292,793
Parking Lot	0.00	0.00	0.00		
Total	464.80	453.60	387.20	1,292,793	1,292,793

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
Condo/Townhouse	10.80	7.30	7.50	42.00	19.00	39.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Parking Lot	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
NaturalGas Unmitigated	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

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					
Condo/Townhouse	3152.41	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
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
Total		0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751

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					
Condo/Townhouse	3.15241	0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751
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
Total		0.0340	0.2905	0.1236	1.8500e-003		0.0235	0.0235		0.0235	0.0235		370.8712	370.8712	7.1100e-003	6.8000e-003	373.0751

6.0 Area Detail**6.1 Mitigation Measures Area**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605
Unmitigated	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2751					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7158					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1553	1.3271	0.5647	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,694.1177	1,694.1177	0.0325	0.0311	1,704.1849
Landscaping	0.1986	0.0760	6.6001	3.5000e-004		0.0366	0.0366		0.0366	0.0366		11.8901	11.8901	0.0114		12.1756
Total	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2751					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7158					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1553	1.3271	0.5647	8.4700e-003		0.1073	0.1073		0.1073	0.1073	0.0000	1,694.1177	1,694.1177	0.0325	0.0311	1,704.1849
Landscaping	0.1986	0.0760	6.6001	3.5000e-004		0.0366	0.0366		0.0366	0.0366		11.8901	11.8901	0.0114		12.1756
Total	2.3449	1.4031	7.1648	8.8200e-003		0.1439	0.1439		0.1439	0.1439	0.0000	1,706.0077	1,706.0077	0.0439	0.0311	1,716.3605

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

Laurel Heights - 80 Unit Multi-Family - San Diego County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

Laurel Heights - 80 Unit Multi-Family
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	27.00	Space	0.25	10,800.00	0
Condo/Townhouse	80.00	Dwelling Unit	6.75	80,000.00	229

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

Project Characteristics -

Land Use - 7 ac out of 10.38 disturbed

Construction Phase - cs

Off-road Equipment -

Trips and VMT -

Demolition -

Architectural Coating - SDAPCD Rule 67 VOC paint standars

Vehicle Trips - traffic CalEE Default

Woodstoves - Natural Gas hearth

Area Coating - SDAPCD Rule 67 VOC paint standards

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - tier 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
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	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	NumberGas	44.00	80.00
tblFireplaces	NumberNoFireplace	8.00	0.00
tblFireplaces	NumberWood	28.00	0.00
tblGrading	MaterialExported	0.00	17,420.00
tblGrading	MaterialExported	0.00	8,580.00
tblLandUse	LotAcreage	0.24	0.25
tblLandUse	LotAcreage	5.00	6.75
tblVehicleTrips	HO_TTP	39.60	39.00
tblVehicleTrips	HS_TTP	18.80	19.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblWoodstoves	NumberCatalytic	4.00	0.00

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

tblWoodstoves	:	NumberNoncatalytic	:	4.00	:	0.00
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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					
2022	0.2596	2.3522	2.3365	4.4500e-003	0.2331	0.1130	0.3461	0.1020	0.1057	0.2077	0.0000	391.0886	391.0886	0.0861	0.0000	393.2417
2023	0.5424	0.3321	0.3977	7.6000e-004	0.0132	0.0155	0.0287	3.5400e-003	0.0147	0.0182	0.0000	66.1225	66.1225	0.0119	0.0000	66.4207
Maximum	0.5424	2.3522	2.3365	4.4500e-003	0.2331	0.1130	0.3461	0.1020	0.1057	0.2077	0.0000	391.0886	391.0886	0.0861	0.0000	393.2417

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1156	2.0176	2.6014	4.4500e-003	0.2331	0.0175	0.2506	0.1020	0.0175	0.1194	0.0000	391.0882	391.0882	0.0861	0.0000	393.2413
2023	0.5218	0.3300	0.4307	7.6000e-004	0.0132	3.0900e-003	0.0163	3.5400e-003	3.0900e-003	6.6200e-003	0.0000	66.1225	66.1225	0.0119	0.0000	66.4206
Maximum	0.5218	2.0176	2.6014	4.4500e-003	0.2331	0.0175	0.2506	0.1020	0.0175	0.1194	0.0000	391.0882	391.0882	0.0861	0.0000	393.2413

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	20.53	12.54	-10.90	0.00	0.00	83.96	28.80	0.00	82.91	44.19	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-26-2021	3-25-2022	0.7770	0.5302
2	3-26-2022	6-25-2022	0.5810	0.5117
3	6-26-2022	9-25-2022	0.6125	0.5329
4	9-26-2022	12-25-2022	0.6071	0.5284
5	12-26-2022	3-25-2023	0.8994	0.8719
		Highest	0.8994	0.8719

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	0.3876	0.0613	0.6172	3.8000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	63.9828	63.9828	2.1400e-003	1.1600e-003	64.3805
Energy	6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	193.9707	193.9707	6.5100e-003	2.2300e-003	194.7980
Mobile	0.1127	0.4595	1.3737	5.1200e-003	0.4871	3.9800e-003	0.4911	0.1304	3.7000e-003	0.1341	0.0000	473.2965	473.2965	0.0234	0.0000	473.8817
Waste						0.0000	0.0000		0.0000	0.0000	7.4701	0.0000	7.4701	0.4415	0.0000	18.5068
Water						0.0000	0.0000		0.0000	0.0000	1.6536	34.1115	35.7651	0.1712	4.2900e-003	41.3253
Total	0.5065	0.5738	2.0134	5.8400e-003	0.4871	0.0160	0.5031	0.1304	0.0157	0.1461	9.1237	765.3614	774.4851	0.6448	7.6800e-003	792.8922

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

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	0.3876	0.0613	0.6172	3.8000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	63.9828	63.9828	2.1400e-003	1.1600e-003	64.3805
Energy	6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	193.9707	193.9707	6.5100e-003	2.2300e-003	194.7980
Mobile	0.1127	0.4595	1.3737	5.1200e-003	0.4871	3.9800e-003	0.4911	0.1304	3.7000e-003	0.1341	0.0000	473.2965	473.2965	0.0234	0.0000	473.8817
Waste						0.0000	0.0000		0.0000	0.0000	7.4701	0.0000	7.4701	0.4415	0.0000	18.5068
Water						0.0000	0.0000		0.0000	0.0000	1.6536	34.1115	35.7651	0.1712	4.2900e-003	41.3253
Total	0.5065	0.5738	2.0134	5.8400e-003	0.4871	0.0160	0.5031	0.1304	0.0157	0.1461	9.1237	765.3614	774.4851	0.6448	7.6800e-003	792.8922

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/11/2022	5	10	
3	Grading	Grading	2/12/2022	3/11/2022	5	20	
4	Paving	Paving	3/12/2022	4/8/2022	5	20	
5	Building Construction	Building Construction	4/9/2022	2/24/2023	5	230	
6	Architectural Coating	Architectural Coating	1/1/2023	2/24/2023	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0.25

Residential Indoor: 162,000; Residential Outdoor: 54,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 648 (Architectural Coating – sqft)

OffRoad Equipment

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	164.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	62.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0179	0.0000	0.0179	2.7200e-003	0.0000	2.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0179	0.0124	0.0304	2.7200e-003	0.0116	0.0143	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.2 Demolition - 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	5.8000e-004	0.0196	5.2400e-003	6.0000e-005	1.4000e-003	5.0000e-005	1.4600e-003	3.9000e-004	5.0000e-005	4.4000e-004	0.0000	6.1634	6.1634	5.6000e-004	0.0000	6.1773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.4000e-004	3.4800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0123	1.0123	3.0000e-005	0.0000	1.0130
Total	1.0700e-003	0.0199	8.7200e-003	7.0000e-005	2.6000e-003	6.0000e-005	2.6700e-003	7.1000e-004	6.0000e-005	7.7000e-004	0.0000	7.1756	7.1756	5.9000e-004	0.0000	7.1903

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					0.0179	0.0000	0.0179	2.7200e-003	0.0000	2.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2500e-003	0.1831	0.2467	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	9.2500e-003	0.1831	0.2467	3.9000e-004	0.0179	1.2900e-003	0.0192	2.7200e-003	1.2900e-003	4.0100e-003	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.2 Demolition - 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	5.8000e-004	0.0196	5.2400e-003	6.0000e-005	1.4000e-003	5.0000e-005	1.4600e-003	3.9000e-004	5.0000e-005	4.4000e-004	0.0000	6.1634	6.1634	5.6000e-004	0.0000	6.1773
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.4000e-004	3.4800e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0123	1.0123	3.0000e-005	0.0000	1.0130
Total	1.0700e-003	0.0199	8.7200e-003	7.0000e-005	2.6000e-003	6.0000e-005	2.6700e-003	7.1000e-004	6.0000e-005	7.7000e-004	0.0000	7.1756	7.1756	5.9000e-004	0.0000	7.1903

3.3 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0903	8.0600e-003	0.0984	0.0497	7.4200e-003	0.0571	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.3 Site Preparation - 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	3.0000e-004	2.0000e-004	2.0900e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6074	0.6074	2.0000e-005	0.0000	0.6078
Total	3.0000e-004	2.0000e-004	2.0900e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6074	0.6074	2.0000e-005	0.0000	0.6078

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0953	0.1148	1.9000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	4.6600e-003	0.0953	0.1148	1.9000e-004	0.0903	7.1000e-004	0.0910	0.0497	7.1000e-004	0.0504	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.3 Site Preparation - 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	3.0000e-004	2.0000e-004	2.0900e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6074	0.6074	2.0000e-005	0.0000	0.6078
Total	3.0000e-004	2.0000e-004	2.0900e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6074	0.6074	2.0000e-005	0.0000	0.6078

3.4 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0655	9.4100e-003	0.0749	0.0337	8.6600e-003	0.0423	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.4 Grading - 2022**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2600e-003	0.1484	0.1899	3.0000e-004		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	7.2600e-003	0.1484	0.1899	3.0000e-004	0.0655	1.1300e-003	0.0667	0.0337	1.1300e-003	0.0348	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.4 Grading - 2022**Mitigated Construction Off-Site**

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

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	3.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0114	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.5 Paving - 2022**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6100e-003	0.1130	0.1730	2.3000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	3.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.9400e-003	0.1130	0.1730	2.3000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.5 Paving - 2022**Mitigated Construction Off-Site**

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

3.6 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1621	1.4835	1.5545	2.5600e-003		0.0769	0.0769		0.0723	0.0723	0.0000	220.1390	220.1390	0.0527	0.0000	221.4575
Total	0.1621	1.4835	1.5545	2.5600e-003		0.0769	0.0769		0.0723	0.0723	0.0000	220.1390	220.1390	0.0527	0.0000	221.4575

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7300e-003	0.0922	0.0247	2.5000e-004	6.3100e-003	1.8000e-004	6.4800e-003	1.8200e-003	1.7000e-004	1.9900e-003	0.0000	24.6016	24.6016	1.7900e-003	0.0000	24.6462
Worker	0.0194	0.0133	0.1366	4.4000e-004	0.0472	3.3000e-004	0.0476	0.0126	3.0000e-004	0.0129	0.0000	39.7483	39.7483	1.0800e-003	0.0000	39.7753
Total	0.0221	0.1055	0.1613	6.9000e-004	0.0535	5.1000e-004	0.0540	0.0144	4.7000e-004	0.0148	0.0000	64.3499	64.3499	2.8700e-003	0.0000	64.4216

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	0.0640	1.3515	1.6980	2.5600e-003		0.0129	0.0129		0.0129	0.0129	0.0000	220.1387	220.1387	0.0527	0.0000	221.4572
Total	0.0640	1.3515	1.6980	2.5600e-003		0.0129	0.0129		0.0129	0.0129	0.0000	220.1387	220.1387	0.0527	0.0000	221.4572

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7300e-003	0.0922	0.0247	2.5000e-004	6.3100e-003	1.8000e-004	6.4800e-003	1.8200e-003	1.7000e-004	1.9900e-003	0.0000	24.6016	24.6016	1.7900e-003	0.0000	24.6462
Worker	0.0194	0.0133	0.1366	4.4000e-004	0.0472	3.3000e-004	0.0476	0.0126	3.0000e-004	0.0129	0.0000	39.7483	39.7483	1.0800e-003	0.0000	39.7753
Total	0.0221	0.1055	0.1613	6.9000e-004	0.0535	5.1000e-004	0.0540	0.0144	4.7000e-004	0.0148	0.0000	64.3499	64.3499	2.8700e-003	0.0000	64.4216

3.6 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3610	46.3610	0.0110	0.0000	46.6367
Total	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3610	46.3610	0.0110	0.0000	46.6367

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0153	4.7300e-003	5.0000e-005	1.3300e-003	2.0000e-005	1.3500e-003	3.8000e-004	2.0000e-005	4.0000e-004	0.0000	5.0489	5.0489	3.4000e-004	0.0000	5.0575
Worker	3.8700e-003	2.5600e-003	0.0267	9.0000e-005	9.9400e-003	7.0000e-005	0.0100	2.6400e-003	6.0000e-005	2.7000e-003	0.0000	8.0484	8.0484	2.1000e-004	0.0000	8.0536
Total	4.3100e-003	0.0178	0.0314	1.4000e-004	0.0113	9.0000e-005	0.0114	3.0200e-003	8.0000e-005	3.1000e-003	0.0000	13.0973	13.0973	5.5000e-004	0.0000	13.1111

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	0.0135	0.2845	0.3575	5.4000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	46.3609	46.3609	0.0110	0.0000	46.6366
Total	0.0135	0.2845	0.3575	5.4000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	46.3609	46.3609	0.0110	0.0000	46.6366

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0153	4.7300e-003	5.0000e-005	1.3300e-003	2.0000e-005	1.3500e-003	3.8000e-004	2.0000e-005	4.0000e-004	0.0000	5.0489	5.0489	3.4000e-004	0.0000	5.0575
Worker	3.8700e-003	2.5600e-003	0.0267	9.0000e-005	9.9400e-003	7.0000e-005	0.0100	2.6400e-003	6.0000e-005	2.7000e-003	0.0000	8.0484	8.0484	2.1000e-004	0.0000	8.0536
Total	4.3100e-003	0.0178	0.0314	1.4000e-004	0.0113	9.0000e-005	0.0114	3.0200e-003	8.0000e-005	3.1000e-003	0.0000	13.0973	13.0973	5.5000e-004	0.0000	13.1111

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5021					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1142
Total	0.5059	0.0261	0.0362	6.0000e-005		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1142

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.0000e-004	5.1600e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5578	1.5578	4.0000e-005	0.0000	1.5588
Total	7.5000e-004	5.0000e-004	5.1600e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5578	1.5578	4.0000e-005	0.0000	1.5588

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	0.5021					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1900e-003	0.0271	0.0367	6.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1141
Total	0.5033	0.0271	0.0367	6.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1141

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.0000e-004	5.1600e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5578	1.5578	4.0000e-005	0.0000	1.5588
Total	7.5000e-004	5.0000e-004	5.1600e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5578	1.5578	4.0000e-005	0.0000	1.5588

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1127	0.4595	1.3737	5.1200e-003	0.4871	3.9800e-003	0.4911	0.1304	3.7000e-003	0.1341	0.0000	473.2965	473.2965	0.0234	0.0000	473.8817
Unmitigated	0.1127	0.4595	1.3737	5.1200e-003	0.4871	3.9800e-003	0.4911	0.1304	3.7000e-003	0.1341	0.0000	473.2965	473.2965	0.0234	0.0000	473.8817

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	464.80	453.60	387.20	1,292,793	1,292,793
Parking Lot	0.00	0.00	0.00		
Total	464.80	453.60	387.20	1,292,793	1,292,793

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
Condo/Townhouse	10.80	7.30	7.50	42.00	19.00	39.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998
Parking Lot	0.606234	0.039465	0.179154	0.102641	0.014368	0.005395	0.016820	0.024508	0.001929	0.001857	0.005869	0.000761	0.000998

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	132.5688	132.5688	5.3400e-003	1.1000e-003	133.0312
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	132.5688	132.5688	5.3400e-003	1.1000e-003	133.0312
NaturalGas Mitigated	6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4019	61.4019	1.1800e-003	1.1300e-003	61.7668
NaturalGas Unmitigated	6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4019	61.4019	1.1800e-003	1.1300e-003	61.7668

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

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					
Condo/Townhouse	1.15063e+006	6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4019	61.4019	1.1800e-003	1.1300e-003	61.7668
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
Total		6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4019	61.4019	1.1800e-003	1.1300e-003	61.7668

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					
Condo/Townhouse	1.15063e+006	6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4019	61.4019	1.1800e-003	1.1300e-003	61.7668
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
Total		6.2000e-003	0.0530	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4019	61.4019	1.1800e-003	1.1300e-003	61.7668

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	401866	131.3335	5.2900e-003	1.0900e-003	131.7915
Parking Lot	3780	1.2353	5.0000e-005	1.0000e-005	1.2397
Total		132.5688	5.3400e-003	1.1000e-003	133.0312

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	401866	131.3335	5.2900e-003	1.0900e-003	131.7915
Parking Lot	3780	1.2353	5.0000e-005	1.0000e-005	1.2397
Total		132.5688	5.3400e-003	1.1000e-003	133.0312

6.0 Area Detail**6.1 Mitigation Measures Area**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3876	0.0613	0.6172	3.8000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	63.9828	63.9828	2.1400e-003	1.1600e-003	64.3805
Unmitigated	0.3876	0.0613	0.6172	3.8000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	63.9828	63.9828	2.1400e-003	1.1600e-003	64.3805

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	0.0502					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.3700e-003	0.0544	0.0232	3.5000e-004		4.4000e-003	4.4000e-003		4.4000e-003	4.4000e-003	0.0000	63.0120	63.0120	1.2100e-003	1.1600e-003	63.3864
Landscaping	0.0179	6.8400e-003	0.5940	3.0000e-005		3.2900e-003	3.2900e-003		3.2900e-003	3.2900e-003	0.0000	0.9708	0.9708	9.3000e-004	0.0000	0.9941
Total	0.3876	0.0613	0.6172	3.8000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	63.9828	63.9828	2.1400e-003	1.1600e-003	64.3805

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

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	0.0502					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.3700e-003	0.0544	0.0232	3.5000e-004		4.4000e-003	4.4000e-003		4.4000e-003	4.4000e-003	0.0000	63.0120	63.0120	1.2100e-003	1.1600e-003	63.3864
Landscaping	0.0179	6.8400e-003	0.5940	3.0000e-005		3.2900e-003	3.2900e-003		3.2900e-003	3.2900e-003	0.0000	0.9708	0.9708	9.3000e-004	0.0000	0.9941
Total	0.3876	0.0613	0.6172	3.8000e-004		7.6900e-003	7.6900e-003		7.6900e-003	7.6900e-003	0.0000	63.9828	63.9828	2.1400e-003	1.1600e-003	64.3805

7.0 Water Detail**7.1 Mitigation Measures Water**

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.7651	0.1712	4.2900e-003	41.3253
Unmitigated	35.7651	0.1712	4.2900e-003	41.3253

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.21232 / 3.28603	35.7651	0.1712	4.2900e-003	41.3253
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.7651	0.1712	4.2900e-003	41.3253

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.21232 / 3.28603	35.7651	0.1712	4.2900e-003	41.3253
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.7651	0.1712	4.2900e-003	41.3253

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.4701	0.4415	0.0000	18.5068
Unmitigated	7.4701	0.4415	0.0000	18.5068

Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	36.8	7.4701	0.4415	0.0000	18.5068
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		7.4701	0.4415	0.0000	18.5068

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	36.8	7.4701	0.4415	0.0000	18.5068
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		7.4701	0.4415	0.0000	18.5068

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Laurel Heights - 80 Unit Multi-Family - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

ATTACHMENT B

AERSCREEN Dispersion Modeling Results

AERSCREEN 11126 / AERMOD 1206

03/15/21
09:30:36

TITLE: Laurel Heights - 80 Unit Multi-Family

***** AREA PARAMETERS *****

SOURCE EMISSION RATE: 0.498E-03 g/s 0.395E-02 lb/hr
AREA EMISSION RATE: 0.117E-07 g/(s-m2) 0.926E-07 lb/(hr-m2)
AREA HEIGHT: 3.00 meters 9.84 feet
AREA SOURCE LONG SIDE: 206.63 meters 677.92 feet
AREA SOURCE SHORT SIDE: 206.63 meters 677.92 feet
INITIAL VERTICAL DIMENSION: 1.00 meters 3.28 feet
RURAL OR URBAN: URBAN
POPULATION: 70000

FLAGPOLE RECEPTOR HEIGHT: 1.50 meters 4.92 feet

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

***** BUILDING DOWNWASH PARAMETERS *****

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

***** FLOW SECTOR ANALYSIS *****

25 meter receptor spacing: 1. meters - 5000. meters

MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
1*	1.000	0.4314	45	125.0	WIN

* = worst case diagonal

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Average Moisture
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 1.50

ROUGHNESS LENGTH: 1.000 (meters)

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

10 01 28 28 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
-0.92	0.043	-9.000	0.020	-999.	21.	8.5	1.000	1.50	0.35	0.50		

HT	REF	TA	HT
----	-----	----	----

10.0	310.0	2.0	
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METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR

10 01 28 28 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
-0.92	0.043	-9.000	0.020	-999.	21.	8.5	1.000	1.50	0.35	0.50		

HT	REF	TA	HT
----	-----	----	----

10.0	310.0	2.0	
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***** AERSCREEN AUTOMATED DISTANCES *****
OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.3176	2525.00	0.1485E-01
25.00	0.3441	2550.00	0.1472E-01
50.01	0.3686	2575.00	0.1459E-01
75.00	0.3911	2600.00	0.1447E-01
100.00	0.4120	2625.00	0.1435E-01
125.00	0.4314	2650.00	0.1424E-01
150.01	0.4205	2675.00	0.1412E-01
174.99	0.3263	2700.00	0.1401E-01
200.00	0.2699	2725.00	0.1391E-01
225.00	0.2326	2750.00	0.1380E-01
250.00	0.2040	2775.00	0.1370E-01
274.99	0.1823	2800.00	0.1360E-01
300.00	0.1651	2825.00	0.1350E-01
325.00	0.1511	2849.99	0.1341E-01
350.00	0.1393	2875.00	0.1331E-01
375.01	0.1292	2900.00	0.1322E-01
400.00	0.1205	2925.00	0.1313E-01
425.00	0.1129	2950.00	0.1304E-01
450.00	0.1061	2975.00	0.1296E-01
475.01	0.1001	2999.99	0.1287E-01
500.00	0.9465E-01	3025.00	0.1279E-01
525.00	0.8972E-01	3050.00	0.1271E-01
550.00	0.8523E-01	3075.00	0.1263E-01

575.01	0.8114E-01	3100.00	0.1255E-01
599.99	0.7735E-01	3125.00	0.1247E-01
625.00	0.7389E-01	3150.00	0.1240E-01
650.00	0.7068E-01	3175.00	0.1232E-01
675.00	0.6771E-01	3200.00	0.1225E-01
699.99	0.6497E-01	3225.00	0.1218E-01
725.00	0.6238E-01	3250.00	0.1211E-01
750.00	0.5998E-01	3275.00	0.1204E-01
775.00	0.5774E-01	3300.00	0.1198E-01
800.01	0.5563E-01	3325.00	0.1191E-01
825.00	0.5365E-01	3350.00	0.1185E-01
850.00	0.5179E-01	3375.00	0.1178E-01
875.00	0.5004E-01	3400.00	0.1172E-01
900.01	0.4839E-01	3425.00	0.1166E-01
924.99	0.4682E-01	3450.00	0.1160E-01
950.00	0.4535E-01	3475.00	0.1154E-01
975.00	0.4396E-01	3500.00	0.1147E-01
1000.00	0.4263E-01	3525.00	0.1170E-01
1024.99	0.4138E-01	3550.00	0.1164E-01
1050.00	0.4018E-01	3575.00	0.1158E-01
1075.00	0.3905E-01	3600.00	0.1152E-01
1100.00	0.3797E-01	3625.00	0.1146E-01
1125.00	0.3693E-01	3650.00	0.1140E-01
1150.00	0.3595E-01	3675.00	0.1134E-01
1175.00	0.3501E-01	3700.00	0.1129E-01
1200.00	0.3412E-01	3725.00	0.1123E-01
1225.01	0.3327E-01	3750.00	0.1118E-01
1250.00	0.3246E-01	3775.00	0.1112E-01
1275.00	0.3168E-01	3800.00	0.1107E-01
1300.00	0.3093E-01	3825.00	0.1102E-01
1325.00	0.3021E-01	3850.00	0.1096E-01
1350.00	0.2952E-01	3875.00	0.1091E-01
1375.00	0.2887E-01	3900.00	0.1086E-01
1400.00	0.2824E-01	3925.00	0.1081E-01
1425.00	0.2764E-01	3950.00	0.1076E-01
1449.99	0.2707E-01	3975.00	0.1071E-01
1475.00	0.2651E-01	4000.00	0.1066E-01
1500.00	0.2598E-01	4025.00	0.1062E-01
1525.00	0.2546E-01	4050.00	0.1057E-01
1550.01	0.2497E-01	4075.00	0.1052E-01
1575.00	0.2449E-01	4100.00	0.1048E-01
1600.00	0.2404E-01	4125.00	0.1043E-01
1625.00	0.2360E-01	4150.00	0.1039E-01
1650.01	0.2318E-01	4175.00	0.1034E-01
1674.99	0.2277E-01	4200.00	0.1030E-01
1700.00	0.2239E-01	4225.00	0.1025E-01
1725.00	0.2201E-01	4250.00	0.1021E-01
1750.00	0.2165E-01	4275.00	0.1017E-01
1774.99	0.2130E-01	4300.00	0.1013E-01
1800.00	0.2097E-01	4325.00	0.1008E-01
1825.00	0.2064E-01	4350.00	0.1004E-01
1850.00	0.2033E-01	4375.00	0.1000E-01
1875.00	0.2002E-01	4400.00	0.9962E-02
1900.00	0.1973E-01	4425.00	0.9922E-02
1925.00	0.1945E-01	4450.00	0.9882E-02
1950.00	0.1918E-01	4475.00	0.9843E-02
1975.00	0.1891E-01	4500.00	0.9804E-02
1999.99	0.1866E-01	4525.00	0.9766E-02
2025.00	0.1841E-01	4550.00	0.9728E-02
2050.00	0.1818E-01	4575.00	0.9690E-02
2075.00	0.1795E-01	4600.00	0.9653E-02
2099.99	0.1773E-01	4625.00	0.9616E-02
2124.99	0.1752E-01	4650.00	0.9580E-02
2150.00	0.1731E-01	4675.00	0.9544E-02
2175.00	0.1711E-01	4700.00	0.9508E-02
2199.99	0.1692E-01	4725.00	0.9472E-02
2225.00	0.1673E-01	4750.00	0.9437E-02
2250.00	0.1655E-01	4775.00	0.9402E-02
2275.00	0.1637E-01	4800.00	0.9368E-02

2300.00	0.1620E-01	4825.00	0.9333E-02
2325.00	0.1603E-01	4850.00	0.9300E-02
2350.00	0.1587E-01	4875.00	0.9266E-02
2375.00	0.1571E-01	4900.00	0.9233E-02
2400.00	0.1556E-01	4925.00	0.9200E-02
2425.00	0.1541E-01	4950.00	0.9167E-02
2450.00	0.1526E-01	4975.00	0.9135E-02
2475.00	0.1512E-01	5000.00	0.9102E-02
2500.00	0.1498E-01		

***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

3-hour, 8-hour, and 24-hour scaled concentrations are equal to the 1-hour concentration as referenced in SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
 Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
 under Screening Guidance

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	0.4453	0.4453	0.4453	0.4453	N/A

DISTANCE FROM SOURCE 144.00 meters

IMPACT AT THE AMBIENT BOUNDARY	0.3176	0.3176	0.3176	0.3176	N/A
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DISTANCE FROM SOURCE 1.00 meters

ATTACHMENT C

Cancer Risk Calculations (Tier 3 Equipment with DPF)

Air Quality Health Risk Calculations (Worst-Case)
Laurel Heights 80 Unit Multi-Family (PDF Tier 3 Equipment)

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	0.0199				
	Construction Start	1/1/2022				
	Construction Complete	2/24/2023				
	Days	419				
	Construction Emission per day (lb/day)	0.094988067				
	Annual Duration (Days)	365				
	Annualized Emission Rate (Grams/Second)	4.98E-04				
	Project Site Size (Acres)	7				
	Project Site Size (meters^2)	42694.33526				
	Length of Smalles Side (meters)	206.6260759				
Used as an input to AERSCREEN	Emission Rate over Grading Area(g/s-m^2)	1.17E-08				
From AERSCREEN*0.08	Concentration Annual (Ug/M^3)	0.034512				
Duration	Days	419	Days to years			
			1.147945205			
Age (Years)	3rd Trimester (0.25)		0-2	2-9	2-16	16-30
						16-70
Cair (annual) - From F15	0.034512		0.034512	0.034512	0.034512	0.034512
Breathing Rate per agegroup BR/BW (Page 5-25)	361		1090	861	745	335
A (Default is 1)	1		1	1	1	1
Exposure Frequency = EF (days/365days)	0.96		0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001		0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00001196		0.00003611	0.00002853	0.00002468	0.00001110
						0.00000961
Construction Days	419		1.147945205			
potency factor for Diesel	1.1		1.1	1.1	1.1	1.1
Age Sensitivity Factor	10		10	3	3	1
						1
ED	0.25		1.147945205	1.147945205	1.147945205	1.147945205
AT	70		70	70	70	70
FAH	0.85		0.85	0.72	0.72	0.73
Risk for Each Age Group	3.99395E-07		5.53736E-06	1.11151E-06	9.61761E-07	1.46159E-07
Risk per million Exposed	0.399394557		5.537357819	1.111511773	0.961761058	0.146158754
						0.126525488
Cancer Risk Per Million 9-years	7.05					
Cancer Risk Per Million 30-years	7.04					
Cancer Risk Per Million 70-years	7.03					