

April 16, 2020

Ms. Sarah Walker  
National Community Renaissance  
1461 Ford Street, Suite 105  
Redlands, CA 92373

**SUBJECT: MOUNTAIN VIEW AFFORDABLE HOUSING COMMUNITY AIR QUALITY AND GREENHOUSE GAS EMISSIONS**

Dear Ms. Sarah Walker:

Urban Crossroads, Inc. is pleased to provide the following Air Quality and Greenhouse Gas Emissions Analysis for the Mountain View Affordable Housing Community Project (“Project”), which is located at 24551 Raymond Way in the City of Lake Forest as shown on Exhibit A.

## **PROJECT DESCRIPTION**

Exhibit B illustrates the site plan for the Project. As indicated on Exhibit B, the Project proposes the development of a 71-unit affordable housing apartment building, with 12 of the 71 units (approximately 15%) being developed as Permanent Supportive Housing (PSH) units (PSH units serve people who are homeless or at risk of homelessness). The project will replace an existing approximately 31,000 square feet (SF) office building on 1.96 acres.

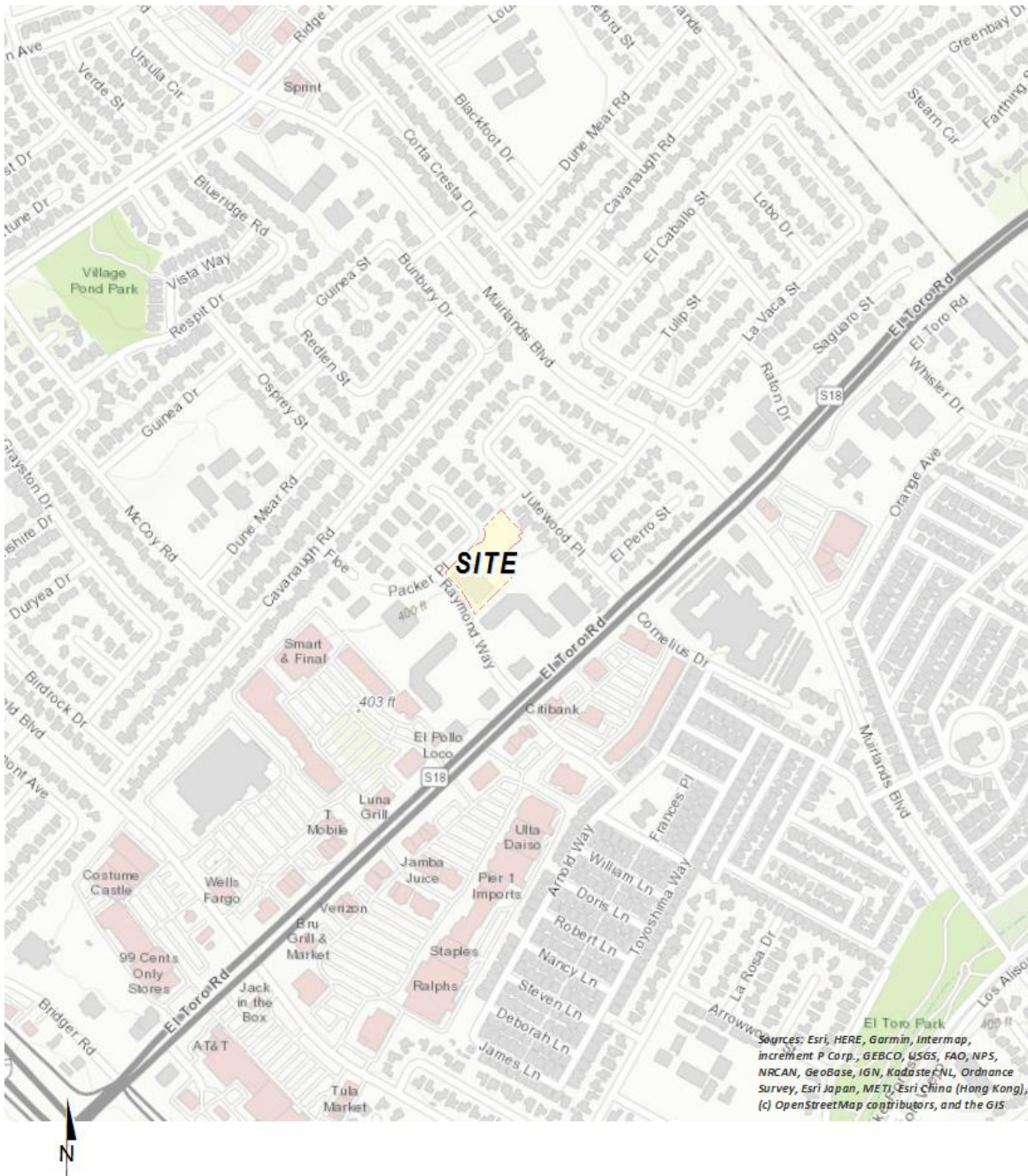
## **SUMMARY OF FINDINGS**

Results of the Memo indicate the construction and operations of the Project would result in less than significant impacts associated with air quality and greenhouse gas (GHG) emissions.

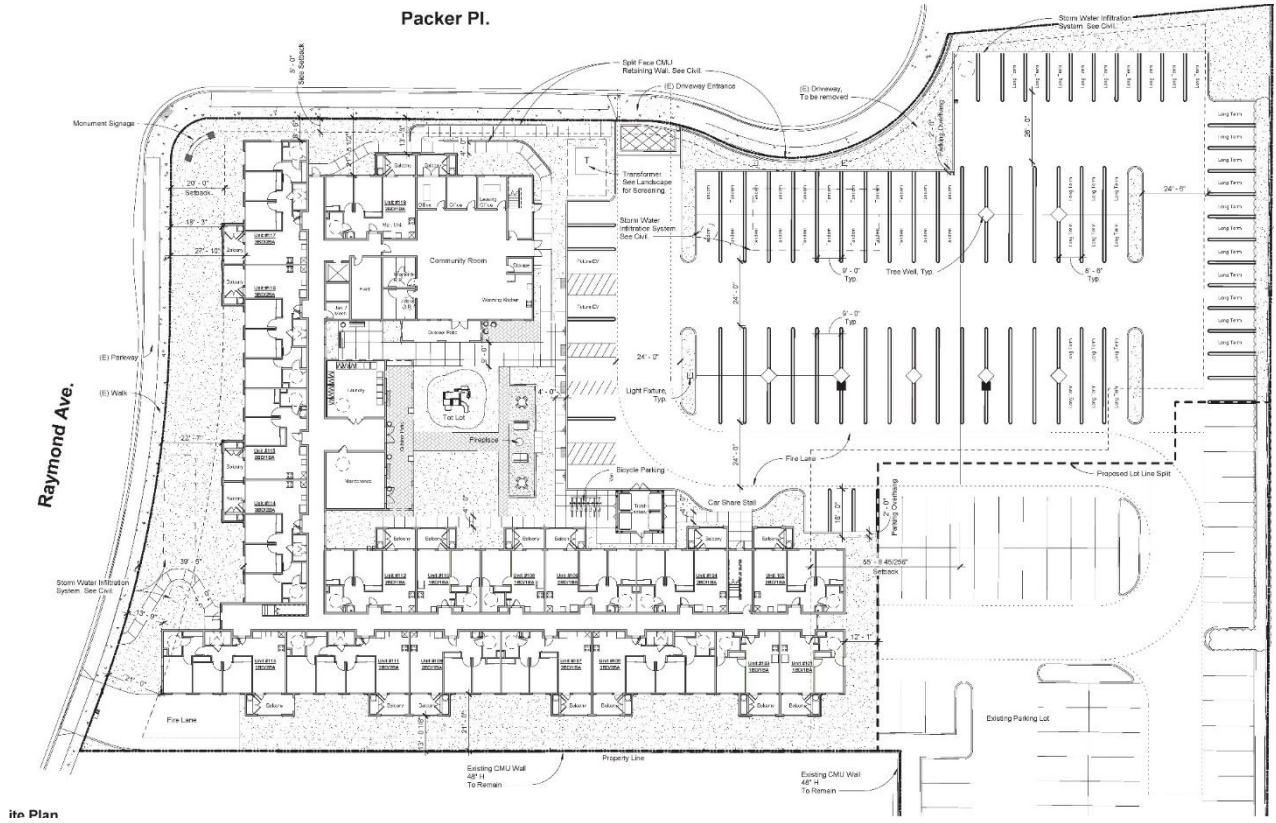
## **CONSTRUCTION AND OPERATIONAL-SOURCE MITIGATION MEASURES**

As shown in the analysis below, the Project would not result in an exceedance of any localized or regional construction-source or operational-source emissions thresholds. As such, the Project would not result in any significant impacts and no mitigation measures are required. Lastly, the Project does not exceed the applicable National Environmental Policy Act (NEPA) de minimis thresholds.

**EXHIBIT A: LOCATION MAP**



**EXHIBIT B: SITE PLAN**



Site Plan

### **STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES (BACMs)**

South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) (1), Rule 1113 (Architectural Coatings) (2), Rule 445 (Wood Burning Devices), and Rule 1403 (Asbestos Removal). Implementation of these rules are required pursuant to existing law and therefore is considered part of the Project.

#### ***BACM AQ-1***

All applicable measures included in Rule 403, shall be incorporated into Project plans and specifications as implementation of Rule 403, which include but are not limited to (1):

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are limited to 15 miles per hour or less.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.

#### ***BACM AQ-2***

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1113 (2):

- Only “Low-Volatile Organic Compounds (VOC)” paints (no more than 50 gram/liter of VOC) consistent with SCAQMD Rule 1113 shall be used.

#### ***BACM AQ-3***

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 445 (3):

- Rule 445 prohibits the use of wood burning stoves and fireplaces in new developments.

#### ***BACM AQ-4***

If asbestos is found in the existing structure, the following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1403 (4):

- Rule 1403 governs asbestos emissions from demolition and renovation activities.

## **CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ESTIMATE AQ EMISSIONS**

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod) v2016.3.2. The purpose of this model is to more accurately calculate construction-source and operational-source criteria pollutant (Nitrogen Oxides (NO<sub>x</sub>), VOC, Particulate Matter less than 10 microns (PM<sub>10</sub>), Particulate Matter less than 2.5 microns (PM<sub>2.5</sub>), Sulfur Oxides (SO<sub>x</sub>), and Carbon Monoxide (CO)) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures. Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational impacts related to the Project. Outputs from the model runs are provided in Attachment A.

## **AIR QUALITY**

### **REGIONAL EMISSIONS**

#### **CONSTRUCTION**

The duration of construction activity was based on CalEEMod defaults. The number of days of construction are shown on Table 1. Equipment employed for Project construction activities are based on CalEEMod defaults, as shown on Table 2. The Project construction fleet may vary due to specific Project needs at any given time.

#### ***Demolition Activities***

The Project is anticipated to include demolition of existing structures currently occupying the Project site. It is estimated that the existing approximately 31,000 SF office building will be demolished and hauled off-site. The model default trip length of 20 miles has been utilized accordingly.

#### ***Grading Activities***

The Project is anticipated to require approximately 500 cubic yards (CY) of fill during grading activities. As such, the soil import function in CalEEMod was enabled and 500 CY of import was modeled accordingly.

### **REGIONAL CONSTRUCTION EMISSIONS SUMMARY**

#### ***Impacts without Mitigation***

The estimated maximum daily construction emissions without mitigation are summarized on Table 3. Detailed construction model outputs are presented in Attachment A. Under the assumed construction modeling scenario discussed above, emissions resulting from the Project construction would not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant, and accordingly will not 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. Thus, a less than significant impact would occur for regional Project-related construction-source emissions and no mitigation is required.

**TABLE 1: CONSTRUCTION DURATION**

Phase Name	Days
Demolition	20
Site Preparation	2
Grading	4
Building Construction	200
Paving	10
Architectural Coating	10

**TABLE 2: CONSTRUCTION EQUIPMENT**

Activity	Equipment	Amount	Hours Per Day
Demolition	Concrete/Industrial Saw	1	8
	Tractor/Loader/Backhoe	3	8
	Rubber Tired Dozer	1	8
Site Preparation	Graders	1	8
	Rubber Tired Dozers	1	7
	Tractor/Loader/Backhoe	1	8
Grading	Graders	1	6
	Rubber Tired Dozer	1	6
	Tractor/Loader/Backhoe	1	7
Building Construction	Cranes	1	6
	Forklifts	1	6
	Generator Sets	1	8
	Tractor/Loader/Backhoe	1	6
	Welders	1	8
Paving	Cement and Mortar Mixers	1	6
	Pavers	1	6
	Paving Equipment	1	8

Activity	Equipment	Amount	Hours Per Day
	Rollers	1	7
	Tractor/Loader/Backhoe	1	8
Architectural Coating	Air Compressors	1	6

**TABLE 3: PROJECT CONSTRUCTION EMISSIONS AND REGIONAL THRESHOLDS (WITHOUT MITIGATION)**

	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Maximum Daily Emissions</b>	<b>45.90</b>	<b>22.94</b>	<b>15.86</b>	<b>0.03</b>	<b>3.17</b>	<b>1.93</b>
SCAQMD Regional Threshold	75	100	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

lbs/day = Pounds Per Day

Based on the SCAQMD’s designation status, federal General Conformity de minimis levels would be 10 tons per year for NO<sub>x</sub> and VOC and 100 tons per year for CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. A conformity determination would be required for each criteria pollutant or precursor exceeding the federal General Conformity de minimis level. Emissions for all criteria pollutants associated with construction activity are below federal General Conformity de minimis levels pursuant to the federal Clean Air Act as shown on Table 4.

**TABLE 4: PROJECT CONSTRUCTION EMISSIONS AND NEPA THRESHOLDS (WITHOUT MITIGATION)**

	Emissions (tons/year)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Maximum Annual Emissions</b>	<b>0.25</b>	<b>1.89</b>	<b>1.70</b>	<b>3.56E-03</b>	<b>0.19</b>	<b>0.12</b>
General Conformity Threshold	10	10	100	100	100	100
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

## **OPERATIONS**

Operational activities associated with the Project would result in emissions of CO, VOCs, NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Operational related emissions are expected from the following primary sources: area source emissions, energy source emissions, mobile source emissions, and on-site equipment emissions.

### ***Area Source Emissions***

*Architectural Coatings* – Over a period of time, the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using the CalEEMod.

*Consumer Products* – Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

*Landscape Maintenance Equipment* – Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

### ***Energy Source Emissions***

*Combustion Emissions Associated with Natural Gas and Electricity* – Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

*Title 24 Energy Efficiency Standards* – California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020.



**Mobile Source Emissions**

Project mobile source air quality emissions are primarily dependent on overall daily vehicle trip generation. The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. According to the *Trip Generation Assessment*, the Project would generate 263 two-way trips per day (131 inbound and 132 outbound trips) (4).

**REGIONAL OPERATIONAL EMISSIONS SUMMARY**

**Impacts without Mitigation**

Table 5 summarizes the Project’s daily regional emissions from on-going operations. Detailed construction model outputs are presented in Attachment A. During operational activity, the Project will not exceed any of the thresholds of significance, and accordingly will not 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. Thus, a less than significant impact would occur for regional Project-related operation-sources emissions, and no mitigation is required.

**TABLE 5: PROJECT OPERATIONAL EMISSIONS AND REGIONAL THRESHOLDS (WITHOUT MITIGATION)**

Operational Activities – Summer Scenario	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Source	1.72	0.07	5.88	3.10E-4	0.03	0.03
Energy Source	0.03	0.27	0.11	1.69E-3	0.02	0.02
Mobile	0.42	1.66	5.71	0.02	1.92	0.52
<b>Total Maximum Daily Emissions</b>	<b>2.17</b>	<b>1.99</b>	<b>11.70</b>	<b>0.02</b>	<b>1.98</b>	<b>0.58</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
Operational Activities – Winter Scenario	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Source	1.72	0.07	5.88	3.10E-4	0.03	0.03
Energy Source	0.03	0.27	0.11	1.69E-3	0.02	0.02
Mobile	0.41	1.71	5.45	0.02	1.92	0.52
<b>Total Maximum Daily Emissions</b>	<b>2.16</b>	<b>2.04</b>	<b>11.44</b>	<b>0.02</b>	<b>1.98</b>	<b>0.58</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Based on the SCAQMD’s designation status, federal General Conformity de minimis levels would be 10 tons per year for NO<sub>x</sub> and VOC and 100 tons per year for CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. A conformity determination would be required for each criteria pollutant or precursor exceeding the federal General

Conformity de minimis level. Emissions for all criteria pollutants associated with operational activity are below federal General Conformity de minimis levels pursuant to the federal Clean Air Act as shown on Table 6.

**TABLE 6: PROJECT OPERATIONAL EMISSIONS AND NEPA THRESHOLDS (WITHOUT MITIGATION)**

	Emissions (tons/year)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Maximum Daily Emissions</b>	<b>0.38</b>	<b>0.37</b>	<b>1.76</b>	<b>4.15E-03</b>	<b>0.35</b>	<b>0.10</b>
General Conformity Threshold	10	10	100	100	100	100
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**LOCALIZED EMISSIONS**

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (5). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs). The SCAQMD established LSTs in response to the SCAQMD Governing Board’s Environmental Justice Initiative I-4<sup>1</sup>. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses (5).

***Sensitive Receptors***

Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities. This Memorandum analyzes localized construction and operational emissions impacts at the nearest sensitive receptors.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as “sensitive receptors”; they are also known to be locations where an individual can remain for 24 hours.

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<sup>1</sup>The purpose of SCAQMD’s Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as “...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution.”

*Project-related Sensitive Receptors*

Sensitive receptors in the Project study area include existing residential homes. To assess the potential for localized impacts, sensitive receptor locations as shown on Exhibit A were identified as representative locations for analysis.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact. As such, the nearest sensitive receptor for evaluation is an existing residential home located approximately 22 feet north of the Project at location R1. The *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters (5).*" As the residential home is located less than 25-meters from the Project site, the 25-meter receptor distance will be used for evaluation of localized impacts.

**LOCALIZED CONSTRUCTION EMISSIONS SUMMARY**

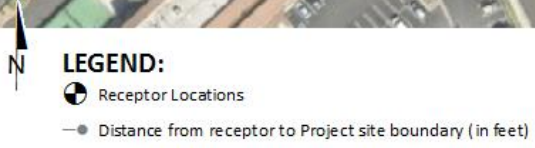
***Impacts without Mitigation***

Table 7 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Attachment A. Under the assumed construction modeling scenario (as previously discussed), emissions resulting from the Project construction will not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant, accordingly the Project's construction will not expose sensitive receptors to substantial pollutant concentrations. If asbestos is found in the existing structure, the Project plans and specifications will incorporate the implementation of SCAQMD Rule 1403 which governs asbestos emissions from demolition and renovation activities. Thus, a less than significant impact related to sensitive receptors exposure to pollutants concentrations from Project construction would occur and no mitigation is required.

**TABLE 7: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION)**

On-Site Demolition Emissions	Emissions (lbs/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Maximum Daily Emissions</b>	<b>20.95</b>	<b>14.66</b>	<b>1.72</b>	<b>1.17</b>
SCAQMD Localized Threshold	91	696	4	3
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
On-Site Site Preparation Emissions	Emissions (lbs/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Maximum Daily Emissions</b>	<b>18.35</b>	<b>7.71</b>	<b>3.08</b>	<b>1.91</b>
SCAQMD Localized Threshold	91	696	4	3
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
On-Site Grading Emissions	Emissions (lbs/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>Maximum Daily Emissions</b>	<b>15.09</b>	<b>6.45</b>	<b>2.60</b>	<b>1.61</b>
SCAQMD Localized Threshold	91	696	4	3
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**EXHIBIT A: RECEPTOR LOCATIONS**



### **CO “HOT SPOT” ANALYSIS**

As discussed below, the Project would not result in potentially adverse CO concentrations or “hot spots.”

At the time of the 1993 Handbook, the South Coast Air Basin (SCAB) was designated nonattainment under the CAAQS and NAAQS for CO (6).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO “hot spot” analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This “hot spot” analysis did not predict any violation of CO standards, as shown on Table 8.

**TABLE 8: CO MODEL RESULTS**

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Blvd./Veteran Ave.	4.6	3.5	3.7
Sunset Blvd./Highland Ave.	4	4.5	3.5
La Cienega Blvd./Century Blvd.	3.7	3.1	5.2
Long Beach Blvd./Imperial Hwy.	3	3.1	8.4

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 9.3 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the “hot spot” analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (7). In contrast, an adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur. The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 4.7 ppm and

3.5 ppm, respectively (data from South Central Los Angeles County Monitoring Station for 2018). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO “hot spot” at any study area intersections. Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph) — or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (8).

Traffic volumes generating the CO concentrations for the “hot spot” analysis, shown on Table 9. The busiest intersection evaluated was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).<sup>2</sup> At buildout of the Project, the highest daily traffic volumes generated at the roadways within the vicinity of the Project are expected to generate less than the highest daily traffic volumes generated at the busiest intersection in the CO “hot spot” analysis. As such, the Project would not likely exceed the most stringent 1-hour CO standard.

**TABLE 9: TRAFFIC VOLUMES**

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Blvd./Veteran Ave.	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Blvd./Highland Ave.	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Blvd./Century Blvd.	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Blvd./Imperial Hwy.	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

**AIR QUALITY MANAGEMENT PLANNING**

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the Southern California Association of Governments (SCAG), county

<sup>2</sup> Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMP) to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (9). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal Clean Air Act requirements (10). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the SCAQMD's California Environmental Quality Act (CEQA) Air Quality Handbook (1993) (11). These indicators are discussed below:

***Consistency Criterion No. 1: The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.***

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

#### *Construction Impacts – Consistency Criterion 1*

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

#### *Operational Impacts – Consistency Criterion 1*

As evaluated, the Project's regional and localized operational-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the Project is determined to consistent with the first criterion.



***Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.***

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Lake Forest General Plan is considered to be consistent with the AQMP.

*Construction Impacts – Consistency Criterion 2*

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

*Operational Impacts – Consistency Criterion 2*

Although the Project is not consistent with the current land use zoning designation, the Project would result in fewer trips and consequently fewer vehicular-related emissions than the existing office designation. Additionally, as noted above, the Project would not exceed any regional or localized emissions thresholds. Lastly, the purpose of the Project is to provide affordable housing in the region and supports the goals and objectives of the AQMP by reducing vehicle miles traveled.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

*AQMP Consistency Conclusion*

The Project would not have the potential to result in or cause NAAQS or CAAQS violations. The Project's development intensity is consistent with than the development intensities allowed within the General Plan. Additionally, Project construction and operational-source emissions would not exceed the regional or localized significance thresholds as previously indicated. The Project is therefore considered to be consistent with the AQMP.

**ODORS**

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants

- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (12).

Based on an aerial review of the Proposed Project vicinity none of the uses listed above associated with odor complaints are not located in the immediate vicinity of the Project, therefore future residents of the Project would not be subject to any substantive odor impacts.

### **CUMULATIVE IMPACTS**

The CAAQS designate the Project site as nonattainment for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> while the NAAQS designates the Project site as nonattainment for O<sub>3</sub> and PM<sub>2.5</sub>.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (13). In this report the AQMD clearly states (Page D-3):

*...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or Environmental Impact Report (EIR). The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same*

*significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

*Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

#### Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

#### Operational Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.

### **GREENHOUSE GAS EMISSIONS**

There are no established City thresholds applicable to the project to determine the quantity of GHG emissions that may have a significant effect on the environment. CARB, the SCAQMD, and various cities and agencies have proposed, or adopted on an interim basis, thresholds of significance that require the implementation of GHG emission reduction measures. For the proposed project, which is located in the SCAB, the most appropriate screening threshold for determining GHG emissions is the SCAQMD proposed Tier 3 screening threshold, which applies to commercial/residential projects (SCAQMD 2008); therefore, for the purposes of this analysis, a significant impact would occur if the proposed project would exceed the SCAQMD proposed Tier 3 screening threshold of 3,000 MT CO<sub>2</sub>e per year.

#### **EMISSIONS SUMMARY**

The annual GHG emissions associated with the operation of the proposed Project are estimated to be 602.17 MTCO<sub>2</sub>e per year as summarized in Table 10. Direct and indirect operational emissions associated with the Project are compared with the SCAQMD's proposed Tier 3 threshold of significance for non-

industrial projects, which is 3,000 MTCO<sub>2</sub>e per year. As shown, the proposed Project would result in a less than significant impact with respect to GHG emissions.

Further, the Project will comply with all applicable regulations intended to reduce GHG-emissions. Finally, the Project is consistent with the general goals and objectives identified in SCAG's Sustainable Community Strategy/ Regional Transportation Plan, which pursuant to SB 375 calls for the integration of transportation, land-use and housing policies to plan for achievement of the GHG-emissions target for the region. Thus, a less than significant impact related to GHG emissions from Project construction and operation would occur and no mitigation is required.

**TABLE 10: TOTAL PROJECT GHG EMISSIONS (ANNUAL)**

Emission Source	Emissions (MT/yr)			
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> e
Annual construction-related emissions amortized over 30 years	10.87	0.001	0.00	10.91
Area	23.23	0.02	5.10E-4	23.98
Energy	164.20	5.54E-3	1.95E-3	164.92
Mobile Sources	349.65	0.01	0.00	350.02
Waste	6.63	0.39	0	16.42
Water Usage	30.98	0.15	3.81E-3	35.92
<b>Total CO<sub>2</sub>e (All Sources)</b>	<b>602.17</b>			
<b>Screening Threshold (CO<sub>2</sub>e)</b>	<b>3,000</b>			
<b>Threshold Exceeded?</b>	<b>NO</b>			

MT/yr = Metric Tons per Year

If you have any questions, please contact me directly at (949) 336-5987.

Respectfully submitted,

URBAN CROSSROADS, INC.



Haseeb Qureshi,  
 Associate Principal

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**ATTACHMENT A:**

**CALEEMOD EMISSIONS MODEL OUTPUTS**

El Toro Road Residential - Orange County, Summer

**El Toro Road Residential**  
**Orange County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	108.00	Space	0.97	43,200.00	0
----- Apartments Mid Rise	71.00	Dwelling Unit	0.99	71,000.00	203

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

El Toro Road Residential - Orange County, Summer

Project Characteristics -

Land Use - Total lot acreage approx 1.96 acres

Demolition -

Vehicle Trips - Affordable Housing trip rate per TG Memo

Construction Off-road Equipment Mitigation -

Area Mitigation -

Grading -

Architectural Coating -

Trips and VMT -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	1.87	0.99
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	3.71
tblVehicleTrips	SU_TR	5.86	3.71
tblVehicleTrips	WD_TR	6.65	3.71

**2.0 Emissions Summary**

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El Toro Road Residential - Orange 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	20.3296	1.5410	41.9886	0.0924		5.4560	5.4560		5.4560	5.4560	665.0512	1,288.5709	1,953.6221	1.9936	0.0451	2,016.9133
Energy	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
Mobile	0.4156	1.6589	5.7076	0.0216	1.9081	0.0154	1.9235	0.5102	0.0143	0.5246		2,189.3870	2,189.3870	0.0886		2,191.6015
<b>Total</b>	<b>20.7762</b>	<b>3.4651</b>	<b>47.8090</b>	<b>0.1157</b>	<b>1.9081</b>	<b>5.4928</b>	<b>7.4009</b>	<b>0.5102</b>	<b>5.4917</b>	<b>6.0020</b>	<b>665.0512</b>	<b>3,816.5170</b>	<b>4,481.5682</b>	<b>2.0887</b>	<b>0.0514</b>	<b>4,549.0858</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7250	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	10.5709	10.5709	0.0103	0.0000	10.8280
Energy	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
Mobile	0.4156	1.6589	5.7076	0.0216	1.9081	0.0154	1.9235	0.5102	0.0143	0.5246		2,189.3870	2,189.3870	0.0886		2,191.6015
<b>Total</b>	<b>2.1716</b>	<b>1.9920</b>	<b>11.7019</b>	<b>0.0236</b>	<b>1.9081</b>	<b>0.0692</b>	<b>1.9773</b>	<b>0.5102</b>	<b>0.0682</b>	<b>0.5784</b>	<b>0.0000</b>	<b>2,538.5170</b>	<b>2,538.5170</b>	<b>0.1054</b>	<b>6.2100e-003</b>	<b>2,543.0004</b>

## El Toro Road Residential - Orange 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	89.55	42.51	75.52	79.62	0.00	98.74	73.28	0.00	98.76	90.36	100.00	33.49	43.36	94.96	87.91	44.10

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.97**

**Residential Indoor: 143,775; Residential Outdoor: 47,925; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,592 (Architectural Coating – sqft)**

#### OffRoad Equipment

## El Toro Road Residential - Orange 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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

El Toro Road Residential - Orange 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	5	13.00	0.00	141.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	63.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	69.00	15.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5258	0.0000	1.5258	0.2310	0.0000	0.2310			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>1.5258</b>	<b>1.1525</b>	<b>2.6782</b>	<b>0.2310</b>	<b>1.0761</b>	<b>1.3072</b>		<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

El Toro Road Residential - Orange County, Summer

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0532	1.9385	0.4898	5.4000e-003	0.1228	6.2800e-003	0.1290	0.0336	6.0000e-003	0.0396		601.4058	601.4058	0.0623		602.9643
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	0.0500	0.0315	0.4255	1.4200e-003	0.1453	9.6000e-004	0.1463	0.0385	8.8000e-004	0.0394		141.7057	141.7057	3.2300e-003		141.7864
<b>Total</b>	<b>0.1032</b>	<b>1.9700</b>	<b>0.9153</b>	<b>6.8200e-003</b>	<b>0.2681</b>	<b>7.2400e-003</b>	<b>0.2753</b>	<b>0.0721</b>	<b>6.8800e-003</b>	<b>0.0790</b>		<b>743.1115</b>	<b>743.1115</b>	<b>0.0656</b>		<b>744.7508</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5950	0.0000	0.5950	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.5950</b>	<b>1.1525</b>	<b>1.7475</b>	<b>0.0901</b>	<b>1.0761</b>	<b>1.1662</b>	<b>0.0000</b>	<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

El Toro Road Residential - Orange County, Summer

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0532	1.9385	0.4898	5.4000e-003	0.1228	6.2800e-003	0.1290	0.0336	6.0000e-003	0.0396		601.4058	601.4058	0.0623		602.9643
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	0.0500	0.0315	0.4255	1.4200e-003	0.1453	9.6000e-004	0.1463	0.0385	8.8000e-004	0.0394		141.7057	141.7057	3.2300e-003		141.7864
<b>Total</b>	<b>0.1032</b>	<b>1.9700</b>	<b>0.9153</b>	<b>6.8200e-003</b>	<b>0.2681</b>	<b>7.2400e-003</b>	<b>0.2753</b>	<b>0.0721</b>	<b>6.8800e-003</b>	<b>0.0790</b>		<b>743.1115</b>	<b>743.1115</b>	<b>0.0656</b>		<b>744.7508</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8210</b>	<b>6.6205</b>	<b>2.9537</b>	<b>0.7553</b>	<b>3.7090</b>		<b>1,667.4119</b>	<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>

El Toro Road Residential - Orange County, Summer

**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0307	0.0194	0.2619	8.7000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		87.2035	87.2035	1.9900e-003		87.2532
<b>Total</b>	<b>0.0307</b>	<b>0.0194</b>	<b>0.2619</b>	<b>8.7000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>87.2035</b>	<b>87.2035</b>	<b>1.9900e-003</b>		<b>87.2532</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>2.2618</b>	<b>0.8210</b>	<b>3.0828</b>	<b>1.1519</b>	<b>0.7553</b>	<b>1.9072</b>	<b>0.0000</b>	<b>1,667.4119</b>	<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>



El Toro Road Residential - Orange County, Summer

**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0307	0.0194	0.2619	8.7000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		87.2035	87.2035	1.9900e-003		87.2532
<b>Total</b>	<b>0.0307</b>	<b>0.0194</b>	<b>0.2619</b>	<b>8.7000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>87.2035</b>	<b>87.2035</b>	<b>1.9900e-003</b>		<b>87.2532</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9284	0.0000	4.9284	2.5278	0.0000	2.5278			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.9284</b>	<b>0.6844</b>	<b>5.6128</b>	<b>2.5278</b>	<b>0.6296</b>	<b>3.1574</b>		<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

El Toro Road Residential - Orange County, Summer

**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1189	4.3308	1.0943	0.0121	0.2742	0.0140	0.2883	0.0751	0.0134	0.0885		1,343.5662	1,343.5662	0.1393		1,347.0480
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	0.0307	0.0194	0.2619	8.7000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		87.2035	87.2035	1.9900e-003		87.2532
<b>Total</b>	<b>0.1497</b>	<b>4.3501</b>	<b>1.3561</b>	<b>0.0129</b>	<b>0.3637</b>	<b>0.0146</b>	<b>0.3783</b>	<b>0.0988</b>	<b>0.0140</b>	<b>0.1128</b>		<b>1,430.7697</b>	<b>1,430.7697</b>	<b>0.1413</b>		<b>1,434.3011</b>

**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					1.9221	0.0000	1.9221	0.9858	0.0000	0.9858			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>1.9221</b>	<b>0.6844</b>	<b>2.6065</b>	<b>0.9858</b>	<b>0.6296</b>	<b>1.6155</b>	<b>0.0000</b>	<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

El Toro Road Residential - Orange County, Summer

**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1189	4.3308	1.0943	0.0121	0.2742	0.0140	0.2883	0.0751	0.0134	0.0885		1,343.5662	1,343.5662	0.1393		1,347.0480
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	0.0307	0.0194	0.2619	8.7000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		87.2035	87.2035	1.9900e-003		87.2532
<b>Total</b>	<b>0.1497</b>	<b>4.3501</b>	<b>1.3561</b>	<b>0.0129</b>	<b>0.3637</b>	<b>0.0146</b>	<b>0.3783</b>	<b>0.0988</b>	<b>0.0140</b>	<b>0.1128</b>		<b>1,430.7697</b>	<b>1,430.7697</b>	<b>0.1413</b>		<b>1,434.3011</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

El Toro Road Residential - Orange County, Summer

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0479	1.5627	0.4125	3.7400e-003	0.0958	8.1500e-003	0.1040	0.0276	7.8000e-003	0.0354		406.6934	406.6934	0.0329		407.5157
Worker	0.2652	0.1671	2.2586	7.5400e-003	0.7713	5.1000e-003	0.7764	0.2045	4.7000e-003	0.2092		752.1301	752.1301	0.0172		752.5587
<b>Total</b>	<b>0.3131</b>	<b>1.7297</b>	<b>2.6710</b>	<b>0.0113</b>	<b>0.8671</b>	<b>0.0133</b>	<b>0.8804</b>	<b>0.2321</b>	<b>0.0125</b>	<b>0.2446</b>		<b>1,158.8235</b>	<b>1,158.8235</b>	<b>0.0500</b>		<b>1,160.0745</b>

**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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

El Toro Road Residential - Orange County, Summer

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0479	1.5627	0.4125	3.7400e-003	0.0958	8.1500e-003	0.1040	0.0276	7.8000e-003	0.0354		406.6934	406.6934	0.0329		407.5157
Worker	0.2652	0.1671	2.2586	7.5400e-003	0.7713	5.1000e-003	0.7764	0.2045	4.7000e-003	0.2092		752.1301	752.1301	0.0172		752.5587
<b>Total</b>	<b>0.3131</b>	<b>1.7297</b>	<b>2.6710</b>	<b>0.0113</b>	<b>0.8671</b>	<b>0.0133</b>	<b>0.8804</b>	<b>0.2321</b>	<b>0.0125</b>	<b>0.2446</b>		<b>1,158.8235</b>	<b>1,158.8235</b>	<b>0.0500</b>		<b>1,160.0745</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

El Toro Road Residential - Orange County, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0400	1.4072	0.3816	3.7000e-003	0.0958	2.9200e-003	0.0988	0.0276	2.8000e-003	0.0304		403.1888	403.1888	0.0316		403.9791
Worker	0.2491	0.1507	2.0957	7.2800e-003	0.7713	4.9900e-003	0.7763	0.2045	4.6000e-003	0.2091		726.0140	726.0140	0.0156		726.4026
<b>Total</b>	<b>0.2891</b>	<b>1.5579</b>	<b>2.4774</b>	<b>0.0110</b>	<b>0.8671</b>	<b>7.9100e-003</b>	<b>0.8750</b>	<b>0.2321</b>	<b>7.4000e-003</b>	<b>0.2395</b>		<b>1,129.2027</b>	<b>1,129.2027</b>	<b>0.0472</b>		<b>1,130.3818</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

El Toro Road Residential - Orange County, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0400	1.4072	0.3816	3.7000e-003	0.0958	2.9200e-003	0.0988	0.0276	2.8000e-003	0.0304		403.1888	403.1888	0.0316		403.9791
Worker	0.2491	0.1507	2.0957	7.2800e-003	0.7713	4.9900e-003	0.7763	0.2045	4.6000e-003	0.2091		726.0140	726.0140	0.0156		726.4026
<b>Total</b>	<b>0.2891</b>	<b>1.5579</b>	<b>2.4774</b>	<b>0.0110</b>	<b>0.8671</b>	<b>7.9100e-003</b>	<b>0.8750</b>	<b>0.2321</b>	<b>7.4000e-003</b>	<b>0.2395</b>		<b>1,129.2027</b>	<b>1,129.2027</b>	<b>0.0472</b>		<b>1,130.3818</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.2541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0280</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

El Toro Road Residential - Orange County, Summer

**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
<b>Total</b>	<b>0.0469</b>	<b>0.0284</b>	<b>0.3949</b>	<b>1.3700e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>136.7852</b>	<b>136.7852</b>	<b>2.9300e-003</b>		<b>136.8585</b>

**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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.2541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0280</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>



El Toro Road Residential - Orange County, Summer

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
<b>Total</b>	<b>0.0469</b>	<b>0.0284</b>	<b>0.3949</b>	<b>1.3700e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>136.7852</b>	<b>136.7852</b>	<b>2.9300e-003</b>		<b>136.8585</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.6279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>45.8468</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

El Toro Road Residential - Orange County, Summer

**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0505	0.0306	0.4252	1.4800e-003	0.1565	1.0100e-003	0.1575	0.0415	9.3000e-004	0.0424		147.3072	147.3072	3.1500e-003		147.3860
<b>Total</b>	<b>0.0505</b>	<b>0.0306</b>	<b>0.4252</b>	<b>1.4800e-003</b>	<b>0.1565</b>	<b>1.0100e-003</b>	<b>0.1575</b>	<b>0.0415</b>	<b>9.3000e-004</b>	<b>0.0424</b>		<b>147.3072</b>	<b>147.3072</b>	<b>3.1500e-003</b>		<b>147.3860</b>

**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	45.6279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>45.8468</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

El Toro Road Residential - Orange County, Summer

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0505	0.0306	0.4252	1.4800e-003	0.1565	1.0100e-003	0.1575	0.0415	9.3000e-004	0.0424		147.3072	147.3072	3.1500e-003		147.3860
<b>Total</b>	<b>0.0505</b>	<b>0.0306</b>	<b>0.4252</b>	<b>1.4800e-003</b>	<b>0.1565</b>	<b>1.0100e-003</b>	<b>0.1575</b>	<b>0.0415</b>	<b>9.3000e-004</b>	<b>0.0424</b>		<b>147.3072</b>	<b>147.3072</b>	<b>3.1500e-003</b>		<b>147.3860</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

El Toro Road Residential - Orange 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	0.4156	1.6589	5.7076	0.0216	1.9081	0.0154	1.9235	0.5102	0.0143	0.5246		2,189.3870	2,189.3870	0.0886		2,191.6015
Unmitigated	0.4156	1.6589	5.7076	0.0216	1.9081	0.0154	1.9235	0.5102	0.0143	0.5246		2,189.3870	2,189.3870	0.0886		2,191.6015

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	263.41	263.41	263.41	899,567	899,567
Parking Lot	0.00	0.00	0.00		
Total	263.41	263.41	263.41	899,567	899,567

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966

El Toro Road Residential - Orange County, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
NaturalGas Unmitigated	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710

El Toro Road Residential - Orange 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					
Apartments Mid Rise	2877.75	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
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
<b>Total</b>		<b>0.0310</b>	<b>0.2652</b>	<b>0.1129</b>	<b>1.6900e-003</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0214</b>	<b>0.0214</b>		<b>338.5591</b>	<b>338.5591</b>	<b>6.4900e-003</b>	<b>6.2100e-003</b>	<b>340.5710</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.87775	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
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
<b>Total</b>		<b>0.0310</b>	<b>0.2652</b>	<b>0.1129</b>	<b>1.6900e-003</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0214</b>	<b>0.0214</b>		<b>338.5591</b>	<b>338.5591</b>	<b>6.4900e-003</b>	<b>6.2100e-003</b>	<b>340.5710</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

El Toro Road Residential - Orange County, Summer

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7250	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	10.5709	10.5709	0.0103	0.0000	10.8280
Unmitigated	20.3296	1.5410	41.9886	0.0924		5.4560	5.4560		5.4560	5.4560	665.0512	1,288.5709	1,953.6221	1.9936	0.0451	2,016.9133

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	0.1250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4211					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	18.6046	1.4731	36.1072	0.0921		5.4236	5.4236		5.4236	5.4236	665.0512	1,278.0000	1,943.0512	1.9833	0.0451	2,006.0854
Landscaping	0.1789	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324		10.5709	10.5709	0.0103		10.8280
<b>Total</b>	<b>20.3296</b>	<b>1.5410</b>	<b>41.9886</b>	<b>0.0924</b>		<b>5.4560</b>	<b>5.4560</b>		<b>5.4560</b>	<b>5.4560</b>	<b>665.0512</b>	<b>1,288.5709</b>	<b>1,953.6221</b>	<b>1.9936</b>	<b>0.0451</b>	<b>2,016.9134</b>

El Toro Road Residential - Orange 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	0.1250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4211					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1789	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324		10.5709	10.5709	0.0103		10.8280
<b>Total</b>	<b>1.7250</b>	<b>0.0679</b>	<b>5.8814</b>	<b>3.1000e-004</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0324</b>	<b>0.0324</b>	<b>0.0000</b>	<b>10.5709</b>	<b>10.5709</b>	<b>0.0103</b>	<b>0.0000</b>	<b>10.8280</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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El Toro Road Residential - Orange 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**

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El Toro Road Residential - Orange County, Winter

**El Toro Road Residential**  
**Orange County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	108.00	Space	0.97	43,200.00	0
----- Apartments Mid Rise	71.00	----- Dwelling Unit	0.99	71,000.00	203

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

El Toro Road Residential - Orange County, Winter

Project Characteristics -

Land Use - Total lot acreage approx 1.96 acres

Demolition -

Vehicle Trips - Affordable Housing trip rate per TG Memo

Construction Off-road Equipment Mitigation -

Area Mitigation -

Grading -

Architectural Coating -

Trips and VMT -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	1.87	0.99
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	3.71
tblVehicleTrips	SU_TR	5.86	3.71
tblVehicleTrips	WD_TR	6.65	3.71

**2.0 Emissions Summary**

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El Toro Road Residential - Orange 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	20.3296	1.5410	41.9886	0.0924		5.4560	5.4560		5.4560	5.4560	665.0512	1,288.5709	1,953.6221	1.9936	0.0451	2,016.9133
Energy	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
Mobile	0.4088	1.7093	5.4490	0.0206	1.9081	0.0155	1.9236	0.5102	0.0144	0.5246		2,092.2036	2,092.2036	0.0882		2,094.4077
<b>Total</b>	<b>20.7694</b>	<b>3.5155</b>	<b>47.5505</b>	<b>0.1147</b>	<b>1.9081</b>	<b>5.4929</b>	<b>7.4010</b>	<b>0.5102</b>	<b>5.4918</b>	<b>6.0021</b>	<b>665.0512</b>	<b>3,719.3335</b>	<b>4,384.3847</b>	<b>2.0882</b>	<b>0.0514</b>	<b>4,451.8920</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7250	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	10.5709	10.5709	0.0103	0.0000	10.8280
Energy	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
Mobile	0.4088	1.7093	5.4490	0.0206	1.9081	0.0155	1.9236	0.5102	0.0144	0.5246		2,092.2036	2,092.2036	0.0882		2,094.4077
<b>Total</b>	<b>2.1648</b>	<b>2.0423</b>	<b>11.4433</b>	<b>0.0226</b>	<b>1.9081</b>	<b>0.0693</b>	<b>1.9774</b>	<b>0.5102</b>	<b>0.0682</b>	<b>0.5785</b>	<b>0.0000</b>	<b>2,441.3335</b>	<b>2,441.3335</b>	<b>0.1049</b>	<b>6.2100e-003</b>	<b>2,445.8066</b>

## El Toro Road Residential - Orange 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	89.58	41.90	75.93	80.29	0.00	98.74	73.28	0.00	98.76	90.36	100.00	34.36	44.32	94.98	87.91	45.06

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.97**

**Residential Indoor: 143,775; Residential Outdoor: 47,925; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,592 (Architectural Coating – sqft)**

#### OffRoad Equipment

## El Toro Road Residential - Orange 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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

El Toro Road Residential - Orange 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	5	13.00	0.00	141.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	63.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	69.00	15.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5258	0.0000	1.5258	0.2310	0.0000	0.2310			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>1.5258</b>	<b>1.1525</b>	<b>2.6782</b>	<b>0.2310</b>	<b>1.0761</b>	<b>1.3072</b>		<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>



El Toro Road Residential - Orange County, Winter

**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0546	1.9629	0.5157	5.3100e-003	0.1228	6.3900e-003	0.1291	0.0336	6.1200e-003	0.0397		592.3268	592.3268	0.0638		593.9224
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	0.0565	0.0346	0.3933	1.3400e-003	0.1453	9.6000e-004	0.1463	0.0385	8.8000e-004	0.0394		134.1108	134.1108	3.0600e-003		134.1873
<b>Total</b>	<b>0.1110</b>	<b>1.9975</b>	<b>0.9090</b>	<b>6.6500e-003</b>	<b>0.2681</b>	<b>7.3500e-003</b>	<b>0.2754</b>	<b>0.0721</b>	<b>7.0000e-003</b>	<b>0.0791</b>		<b>726.4376</b>	<b>726.4376</b>	<b>0.0669</b>		<b>728.1097</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5950	0.0000	0.5950	0.0901	0.0000	0.0901			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.5950</b>	<b>1.1525</b>	<b>1.7475</b>	<b>0.0901</b>	<b>1.0761</b>	<b>1.1662</b>	<b>0.0000</b>	<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

El Toro Road Residential - Orange County, Winter

**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0546	1.9629	0.5157	5.3100e-003	0.1228	6.3900e-003	0.1291	0.0336	6.1200e-003	0.0397		592.3268	592.3268	0.0638		593.9224
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	0.0565	0.0346	0.3933	1.3400e-003	0.1453	9.6000e-004	0.1463	0.0385	8.8000e-004	0.0394		134.1108	134.1108	3.0600e-003		134.1873
<b>Total</b>	<b>0.1110</b>	<b>1.9975</b>	<b>0.9090</b>	<b>6.6500e-003</b>	<b>0.2681</b>	<b>7.3500e-003</b>	<b>0.2754</b>	<b>0.0721</b>	<b>7.0000e-003</b>	<b>0.0791</b>		<b>726.4376</b>	<b>726.4376</b>	<b>0.0669</b>		<b>728.1097</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>5.7996</b>	<b>0.8210</b>	<b>6.6205</b>	<b>2.9537</b>	<b>0.7553</b>	<b>3.7090</b>		<b>1,667.4119</b>	<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>

El Toro Road Residential - Orange County, Winter

**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0347	0.0213	0.2420	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		82.5297	82.5297	1.8800e-003		82.5768
<b>Total</b>	<b>0.0347</b>	<b>0.0213</b>	<b>0.2420</b>	<b>8.3000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>82.5297</b>	<b>82.5297</b>	<b>1.8800e-003</b>		<b>82.5768</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2618	0.0000	2.2618	1.1519	0.0000	1.1519			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
<b>Total</b>	<b>1.6299</b>	<b>18.3464</b>	<b>7.7093</b>	<b>0.0172</b>	<b>2.2618</b>	<b>0.8210</b>	<b>3.0828</b>	<b>1.1519</b>	<b>0.7553</b>	<b>1.9072</b>	<b>0.0000</b>	<b>1,667.4119</b>	<b>1,667.4119</b>	<b>0.5393</b>		<b>1,680.8937</b>

El Toro Road Residential - Orange County, Winter

**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0347	0.0213	0.2420	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		82.5297	82.5297	1.8800e-003		82.5768
<b>Total</b>	<b>0.0347</b>	<b>0.0213</b>	<b>0.2420</b>	<b>8.3000e-004</b>	<b>0.0894</b>	<b>5.9000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.4000e-004</b>	<b>0.0243</b>		<b>82.5297</b>	<b>82.5297</b>	<b>1.8800e-003</b>		<b>82.5768</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9284	0.0000	4.9284	2.5278	0.0000	2.5278			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>4.9284</b>	<b>0.6844</b>	<b>5.6128</b>	<b>2.5278</b>	<b>0.6296</b>	<b>3.1574</b>		<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

El Toro Road Residential - Orange County, Winter

**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1219	4.3853	1.1521	0.0119	0.2742	0.0143	0.2885	0.0751	0.0137	0.0887		1,323.2834	1,323.2834	0.1426		1,326.8479
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	0.0347	0.0213	0.2420	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		82.5297	82.5297	1.8800e-003		82.5768
<b>Total</b>	<b>0.1566</b>	<b>4.4066</b>	<b>1.3942</b>	<b>0.0127</b>	<b>0.3637</b>	<b>0.0149</b>	<b>0.3785</b>	<b>0.0988</b>	<b>0.0142</b>	<b>0.1130</b>		<b>1,405.8131</b>	<b>1,405.8131</b>	<b>0.1445</b>		<b>1,409.4247</b>

**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					1.9221	0.0000	1.9221	0.9858	0.0000	0.9858			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
<b>Total</b>	<b>1.3498</b>	<b>15.0854</b>	<b>6.4543</b>	<b>0.0141</b>	<b>1.9221</b>	<b>0.6844</b>	<b>2.6065</b>	<b>0.9858</b>	<b>0.6296</b>	<b>1.6155</b>	<b>0.0000</b>	<b>1,365.7183</b>	<b>1,365.7183</b>	<b>0.4417</b>		<b>1,376.7609</b>

El Toro Road Residential - Orange County, Winter

**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1219	4.3853	1.1521	0.0119	0.2742	0.0143	0.2885	0.0751	0.0137	0.0887		1,323.2834	1,323.2834	0.1426		1,326.8479
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	0.0347	0.0213	0.2420	8.3000e-004	0.0894	5.9000e-004	0.0900	0.0237	5.4000e-004	0.0243		82.5297	82.5297	1.8800e-003		82.5768
<b>Total</b>	<b>0.1566</b>	<b>4.4066</b>	<b>1.3942</b>	<b>0.0127</b>	<b>0.3637</b>	<b>0.0149</b>	<b>0.3785</b>	<b>0.0988</b>	<b>0.0142</b>	<b>0.1130</b>		<b>1,405.8131</b>	<b>1,405.8131</b>	<b>0.1445</b>		<b>1,409.4247</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

El Toro Road Residential - Orange County, Winter

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0500	1.5621	0.4521	3.6500e-003	0.0958	8.2900e-003	0.1041	0.0276	7.9300e-003	0.0355		396.6991	396.6991	0.0346		397.5629
Worker	0.2997	0.1836	2.0875	7.1400e-003	0.7713	5.1000e-003	0.7764	0.2045	4.7000e-003	0.2092		711.8186	711.8186	0.0162		712.2246
<b>Total</b>	<b>0.3497</b>	<b>1.7457</b>	<b>2.5396</b>	<b>0.0108</b>	<b>0.8671</b>	<b>0.0134</b>	<b>0.8805</b>	<b>0.2321</b>	<b>0.0126</b>	<b>0.2448</b>		<b>1,108.5177</b>	<b>1,108.5177</b>	<b>0.0508</b>		<b>1,109.7875</b>

**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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

El Toro Road Residential - Orange County, Winter

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0500	1.5621	0.4521	3.6500e-003	0.0958	8.2900e-003	0.1041	0.0276	7.9300e-003	0.0355		396.6991	396.6991	0.0346		397.5629
Worker	0.2997	0.1836	2.0875	7.1400e-003	0.7713	5.1000e-003	0.7764	0.2045	4.7000e-003	0.2092		711.8186	711.8186	0.0162		712.2246
<b>Total</b>	<b>0.3497</b>	<b>1.7457</b>	<b>2.5396</b>	<b>0.0108</b>	<b>0.8671</b>	<b>0.0134</b>	<b>0.8805</b>	<b>0.2321</b>	<b>0.0126</b>	<b>0.2448</b>		<b>1,108.5177</b>	<b>1,108.5177</b>	<b>0.0508</b>		<b>1,109.7875</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>		<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>



El Toro Road Residential - Orange County, Winter

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0420	1.4039	0.4187	3.6100e-003	0.0958	3.0300e-003	0.0989	0.0276	2.9000e-003	0.0305		393.2835	393.2835	0.0332		394.1125
Worker	0.2820	0.1656	1.9339	6.8900e-003	0.7713	4.9900e-003	0.7763	0.2045	4.6000e-003	0.2091		687.1242	687.1242	0.0147		687.4921
<b>Total</b>	<b>0.3240</b>	<b>1.5695</b>	<b>2.3525</b>	<b>0.0105</b>	<b>0.8671</b>	<b>8.0200e-003</b>	<b>0.8751</b>	<b>0.2321</b>	<b>7.5000e-003</b>	<b>0.2396</b>		<b>1,080.4077</b>	<b>1,080.4077</b>	<b>0.0479</b>		<b>1,081.6046</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
<b>Total</b>	<b>1.8125</b>	<b>13.6361</b>	<b>12.8994</b>	<b>0.0221</b>		<b>0.6843</b>	<b>0.6843</b>		<b>0.6608</b>	<b>0.6608</b>	<b>0.0000</b>	<b>2,001.2200</b>	<b>2,001.2200</b>	<b>0.3573</b>		<b>2,010.1517</b>

El Toro Road Residential - Orange County, Winter

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0420	1.4039	0.4187	3.6100e-003	0.0958	3.0300e-003	0.0989	0.0276	2.9000e-003	0.0305		393.2835	393.2835	0.0332		394.1125
Worker	0.2820	0.1656	1.9339	6.8900e-003	0.7713	4.9900e-003	0.7763	0.2045	4.6000e-003	0.2091		687.1242	687.1242	0.0147		687.4921
<b>Total</b>	<b>0.3240</b>	<b>1.5695</b>	<b>2.3525</b>	<b>0.0105</b>	<b>0.8671</b>	<b>8.0200e-003</b>	<b>0.8751</b>	<b>0.2321</b>	<b>7.5000e-003</b>	<b>0.2396</b>		<b>1,080.4077</b>	<b>1,080.4077</b>	<b>0.0479</b>		<b>1,081.6046</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.2541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0280</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>		<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

El Toro Road Residential - Orange County, Winter

**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
<b>Total</b>	<b>0.0531</b>	<b>0.0312</b>	<b>0.3644</b>	<b>1.3000e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>129.4582</b>	<b>129.4582</b>	<b>2.7700e-003</b>		<b>129.5275</b>

**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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.2541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0280</b>	<b>7.7422</b>	<b>8.8569</b>	<b>0.0135</b>		<b>0.4153</b>	<b>0.4153</b>		<b>0.3830</b>	<b>0.3830</b>	<b>0.0000</b>	<b>1,296.8664</b>	<b>1,296.8664</b>	<b>0.4111</b>		<b>1,307.1442</b>

El Toro Road Residential - Orange County, Winter

**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
<b>Total</b>	<b>0.0531</b>	<b>0.0312</b>	<b>0.3644</b>	<b>1.3000e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>129.4582</b>	<b>129.4582</b>	<b>2.7700e-003</b>		<b>129.5275</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.6279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>45.8468</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

El Toro Road Residential - Orange County, Winter

**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0336	0.3924	1.4000e-003	0.1565	1.0100e-003	0.1575	0.0415	9.3000e-004	0.0424		139.4165	139.4165	2.9900e-003		139.4911
<b>Total</b>	<b>0.0572</b>	<b>0.0336</b>	<b>0.3924</b>	<b>1.4000e-003</b>	<b>0.1565</b>	<b>1.0100e-003</b>	<b>0.1575</b>	<b>0.0415</b>	<b>9.3000e-004</b>	<b>0.0424</b>		<b>139.4165</b>	<b>139.4165</b>	<b>2.9900e-003</b>		<b>139.4911</b>

**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	45.6279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>45.8468</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

El Toro Road Residential - Orange County, Winter

**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0336	0.3924	1.4000e-003	0.1565	1.0100e-003	0.1575	0.0415	9.3000e-004	0.0424		139.4165	139.4165	2.9900e-003		139.4911
<b>Total</b>	<b>0.0572</b>	<b>0.0336</b>	<b>0.3924</b>	<b>1.4000e-003</b>	<b>0.1565</b>	<b>1.0100e-003</b>	<b>0.1575</b>	<b>0.0415</b>	<b>9.3000e-004</b>	<b>0.0424</b>		<b>139.4165</b>	<b>139.4165</b>	<b>2.9900e-003</b>		<b>139.4911</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

El Toro Road Residential - Orange 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	0.4088	1.7093	5.4490	0.0206	1.9081	0.0155	1.9236	0.5102	0.0144	0.5246		2,092.2036	2,092.2036	0.0882		2,094.4077
Unmitigated	0.4088	1.7093	5.4490	0.0206	1.9081	0.0155	1.9236	0.5102	0.0144	0.5246		2,092.2036	2,092.2036	0.0882		2,094.4077

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	263.41	263.41	263.41	899,567	899,567
Parking Lot	0.00	0.00	0.00		
Total	263.41	263.41	263.41	899,567	899,567

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966

El Toro Road Residential - Orange County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
NaturalGas Unmitigated	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710



El Toro Road Residential - Orange 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					
Apartments Mid Rise	2877.75	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
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
<b>Total</b>		<b>0.0310</b>	<b>0.2652</b>	<b>0.1129</b>	<b>1.6900e-003</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0214</b>	<b>0.0214</b>		<b>338.5591</b>	<b>338.5591</b>	<b>6.4900e-003</b>	<b>6.2100e-003</b>	<b>340.5710</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.87775	0.0310	0.2652	0.1129	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.5591	338.5591	6.4900e-003	6.2100e-003	340.5710
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
<b>Total</b>		<b>0.0310</b>	<b>0.2652</b>	<b>0.1129</b>	<b>1.6900e-003</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0214</b>	<b>0.0214</b>		<b>338.5591</b>	<b>338.5591</b>	<b>6.4900e-003</b>	<b>6.2100e-003</b>	<b>340.5710</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

El Toro Road Residential - Orange County, Winter

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7250	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	10.5709	10.5709	0.0103	0.0000	10.8280
Unmitigated	20.3296	1.5410	41.9886	0.0924		5.4560	5.4560		5.4560	5.4560	665.0512	1,288.5709	1,953.6221	1.9936	0.0451	2,016.9133

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	0.1250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4211					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	18.6046	1.4731	36.1072	0.0921		5.4236	5.4236		5.4236	5.4236	665.0512	1,278.0000	1,943.0512	1.9833	0.0451	2,006.0854
Landscaping	0.1789	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324		10.5709	10.5709	0.0103		10.8280
<b>Total</b>	<b>20.3296</b>	<b>1.5410</b>	<b>41.9886</b>	<b>0.0924</b>		<b>5.4560</b>	<b>5.4560</b>		<b>5.4560</b>	<b>5.4560</b>	<b>665.0512</b>	<b>1,288.5709</b>	<b>1,953.6221</b>	<b>1.9936</b>	<b>0.0451</b>	<b>2,016.9134</b>

El Toro Road Residential - Orange 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	0.1250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4211					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1789	0.0679	5.8814	3.1000e-004		0.0324	0.0324		0.0324	0.0324		10.5709	10.5709	0.0103		10.8280
<b>Total</b>	<b>1.7250</b>	<b>0.0679</b>	<b>5.8814</b>	<b>3.1000e-004</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0324</b>	<b>0.0324</b>	<b>0.0000</b>	<b>10.5709</b>	<b>10.5709</b>	<b>0.0103</b>	<b>0.0000</b>	<b>10.8280</b>

**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**

El Toro Road Residential - Orange 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**

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El Toro Road Residential - Orange County, Annual

**El Toro Road Residential  
Orange County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	108.00	Space	0.97	43,200.00	0
----- Apartments Mid Rise	71.00	----- Dwelling Unit	0.99	71,000.00	203

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

El Toro Road Residential - Orange County, Annual

Project Characteristics -

Land Use - Total lot acreage approx 1.96 acres

Demolition -

Vehicle Trips - Affordable Housing trip rate per TG Memo

Construction Off-road Equipment Mitigation -

Area Mitigation -

Grading -

Architectural Coating -

Trips and VMT -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LotAcreage	1.87	0.99
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	3.71
tblVehicleTrips	SU_TR	5.86	3.71
tblVehicleTrips	WD_TR	6.65	3.71

**2.0 Emissions Summary**

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El Toro Road Residential - Orange County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-2-2020	6-1-2020	0.6845	0.6845
2	6-2-2020	9-1-2020	0.6197	0.6197
3	9-2-2020	12-1-2020	0.6142	0.6142
4	12-2-2020	3-1-2021	0.5524	0.5524
		Highest	0.6845	0.6845

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	0.5371	0.0269	1.1865	1.1900e-003		0.0718	0.0718		0.0718	0.0718	7.5416	15.6910	23.2325	0.0237	5.1000e-004	23.9765
Energy	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	164.2011	164.2011	5.5400e-003	1.9500e-003	164.9211
Mobile	0.0723	0.3165	1.0056	3.8000e-003	0.3412	2.8000e-003	0.3440	0.0914	2.6100e-003	0.0940	0.0000	349.6533	349.6533	0.0145	0.0000	350.0164
Waste						0.0000	0.0000		0.0000	0.0000	6.6297	0.0000	6.6297	0.3918	0.0000	16.4248
Water						0.0000	0.0000		0.0000	0.0000	1.4676	29.5155	30.9831	0.1520	3.8100e-003	35.9177
<b>Total</b>	<b>0.6150</b>	<b>0.3918</b>	<b>2.2127</b>	<b>5.3000e-003</b>	<b>0.3412</b>	<b>0.0786</b>	<b>0.4197</b>	<b>0.0914</b>	<b>0.0784</b>	<b>0.1697</b>	<b>15.6388</b>	<b>559.0609</b>	<b>574.6997</b>	<b>0.5875</b>	<b>6.2700e-003</b>	<b>591.2564</b>



El Toro Road Residential - Orange 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	0.3045	8.4800e-003	0.7352	4.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.0000	1.1987	1.1987	1.1700e-003	0.0000	1.2279
Energy	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	164.2011	164.2011	5.5400e-003	1.9500e-003	164.9211
Mobile	0.0723	0.3165	1.0056	3.8000e-003	0.3412	2.8000e-003	0.3440	0.0914	2.6100e-003	0.0940	0.0000	349.6533	349.6533	0.0145	0.0000	350.0164
Waste						0.0000	0.0000		0.0000	0.0000	6.6297	0.0000	6.6297	0.3918	0.0000	16.4248
Water						0.0000	0.0000		0.0000	0.0000	1.4676	29.5155	30.9831	0.1520	3.8100e-003	35.9177
<b>Total</b>	<b>0.3825</b>	<b>0.3734</b>	<b>1.7613</b>	<b>4.1500e-003</b>	<b>0.3412</b>	<b>0.0108</b>	<b>0.3519</b>	<b>0.0914</b>	<b>0.0106</b>	<b>0.1019</b>	<b>8.0973</b>	<b>544.5686</b>	<b>552.6659</b>	<b>0.5650</b>	<b>5.7600e-003</b>	<b>568.5078</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>37.81</b>	<b>4.70</b>	<b>20.40</b>	<b>21.70</b>	<b>0.00</b>	<b>86.30</b>	<b>16.15</b>	<b>0.00</b>	<b>86.51</b>	<b>39.94</b>	<b>48.22</b>	<b>2.59</b>	<b>3.83</b>	<b>3.83</b>	<b>8.13</b>	<b>3.85</b>

**3.0 Construction Detail**

**Construction Phase**

## El Toro Road Residential - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.97**

**Residential Indoor: 143,775; Residential Outdoor: 47,925; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,592 (Architectural Coating – sqft)**

**OffRoad Equipment**

## El Toro Road Residential - Orange 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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

El Toro Road Residential - Orange 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	5	13.00	0.00	141.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	63.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	69.00	15.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0153	0.0000	0.0153	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
<b>Total</b>	<b>0.0213</b>	<b>0.2095</b>	<b>0.1466</b>	<b>2.4000e-004</b>	<b>0.0153</b>	<b>0.0115</b>	<b>0.0268</b>	<b>2.3100e-003</b>	<b>0.0108</b>	<b>0.0131</b>	<b>0.0000</b>	<b>21.0677</b>	<b>21.0677</b>	<b>5.4200e-003</b>	<b>0.0000</b>	<b>21.2031</b>

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**3.2 Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0200	5.0100e-003	5.0000e-005	1.2100e-003	6.0000e-005	1.2700e-003	3.3000e-004	6.0000e-005	3.9000e-004	0.0000	5.4213	5.4213	5.7000e-004	0.0000	5.4356
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	4.0300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2352	1.2352	3.0000e-005	0.0000	1.2359
<b>Total</b>	<b>1.0500e-003</b>	<b>0.0204</b>	<b>9.0400e-003</b>	<b>6.0000e-005</b>	<b>2.6400e-003</b>	<b>7.0000e-005</b>	<b>2.7100e-003</b>	<b>7.1000e-004</b>	<b>7.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>6.6565</b>	<b>6.6565</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.6715</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.9500e-003	0.0000	5.9500e-003	9.0000e-004	0.0000	9.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
<b>Total</b>	<b>0.0213</b>	<b>0.2095</b>	<b>0.1466</b>	<b>2.4000e-004</b>	<b>5.9500e-003</b>	<b>0.0115</b>	<b>0.0175</b>	<b>9.0000e-004</b>	<b>0.0108</b>	<b>0.0117</b>	<b>0.0000</b>	<b>21.0676</b>	<b>21.0676</b>	<b>5.4200e-003</b>	<b>0.0000</b>	<b>21.2030</b>

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**3.2 Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0200	5.0100e-003	5.0000e-005	1.2100e-003	6.0000e-005	1.2700e-003	3.3000e-004	6.0000e-005	3.9000e-004	0.0000	5.4213	5.4213	5.7000e-004	0.0000	5.4356
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.5000e-004	4.0300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2352	1.2352	3.0000e-005	0.0000	1.2359
<b>Total</b>	<b>1.0500e-003</b>	<b>0.0204</b>	<b>9.0400e-003</b>	<b>6.0000e-005</b>	<b>2.6400e-003</b>	<b>7.0000e-005</b>	<b>2.7100e-003</b>	<b>7.1000e-004</b>	<b>7.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>6.6565</b>	<b>6.6565</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.6715</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
<b>Total</b>	<b>1.6300e-003</b>	<b>0.0184</b>	<b>7.7100e-003</b>	<b>2.0000e-005</b>	<b>5.8000e-003</b>	<b>8.2000e-004</b>	<b>6.6200e-003</b>	<b>2.9500e-003</b>	<b>7.6000e-004</b>	<b>3.7100e-003</b>	<b>0.0000</b>	<b>1.5127</b>	<b>1.5127</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5249</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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-005	2.0000e-005	2.5000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0760	0.0760	0.0000	0.0000	0.0761
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0760</b>	<b>0.0760</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0761</b>

**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					2.2600e-003	0.0000	2.2600e-003	1.1500e-003	0.0000	1.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
<b>Total</b>	<b>1.6300e-003</b>	<b>0.0184</b>	<b>7.7100e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>8.2000e-004</b>	<b>3.0800e-003</b>	<b>1.1500e-003</b>	<b>7.6000e-004</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>1.5127</b>	<b>1.5127</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5249</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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-005	2.0000e-005	2.5000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0760	0.0760	0.0000	0.0000	0.0761
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0760</b>	<b>0.0760</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0761</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8600e-003	0.0000	9.8600e-003	5.0600e-003	0.0000	5.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
<b>Total</b>	<b>2.7000e-003</b>	<b>0.0302</b>	<b>0.0129</b>	<b>3.0000e-005</b>	<b>9.8600e-003</b>	<b>1.3700e-003</b>	<b>0.0112</b>	<b>5.0600e-003</b>	<b>1.2600e-003</b>	<b>6.3200e-003</b>	<b>0.0000</b>	<b>2.4779</b>	<b>2.4779</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4980</b>



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**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	8.9400e-003	2.2400e-003	2.0000e-005	5.4000e-004	3.0000e-005	5.7000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	2.4223	2.4223	2.6000e-004	0.0000	2.4287
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	5.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1520	0.1520	0.0000	0.0000	0.1521
<b>Total</b>	<b>3.0000e-004</b>	<b>8.9800e-003</b>	<b>2.7400e-003</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>3.0000e-005</b>	<b>7.5000e-004</b>	<b>2.0000e-004</b>	<b>3.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.5743</b>	<b>2.5743</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.5808</b>

**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					3.8400e-003	0.0000	3.8400e-003	1.9700e-003	0.0000	1.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
<b>Total</b>	<b>2.7000e-003</b>	<b>0.0302</b>	<b>0.0129</b>	<b>3.0000e-005</b>	<b>3.8400e-003</b>	<b>1.3700e-003</b>	<b>5.2100e-003</b>	<b>1.9700e-003</b>	<b>1.2600e-003</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>2.4779</b>	<b>2.4779</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4980</b>

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**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	8.9400e-003	2.2400e-003	2.0000e-005	5.4000e-004	3.0000e-005	5.7000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	2.4223	2.4223	2.6000e-004	0.0000	2.4287
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	5.0000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1520	0.1520	0.0000	0.0000	0.1521
<b>Total</b>	<b>3.0000e-004</b>	<b>8.9800e-003</b>	<b>2.7400e-003</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>3.0000e-005</b>	<b>7.5000e-004</b>	<b>2.0000e-004</b>	<b>3.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.5743</b>	<b>2.5743</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.5808</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1959	1.4271	1.2727	2.1300e-003		0.0768	0.0768		0.0742	0.0742	0.0000	175.1882	175.1882	0.0325	0.0000	176.0012
<b>Total</b>	<b>0.1959</b>	<b>1.4271</b>	<b>1.2727</b>	<b>2.1300e-003</b>		<b>0.0768</b>	<b>0.0768</b>		<b>0.0742</b>	<b>0.0742</b>	<b>0.0000</b>	<b>175.1882</b>	<b>175.1882</b>	<b>0.0325</b>	<b>0.0000</b>	<b>176.0012</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7100e-003	0.1535	0.0418	3.6000e-004	9.1100e-003	7.9000e-004	9.9100e-003	2.6300e-003	7.6000e-004	3.3900e-003	0.0000	35.2358	35.2358	2.9400e-003	0.0000	35.3094
Worker	0.0260	0.0182	0.2064	7.0000e-004	0.0731	4.9000e-004	0.0736	0.0194	4.5000e-004	0.0199	0.0000	63.2664	63.2664	1.4400e-003	0.0000	63.3025
<b>Total</b>	<b>0.0307</b>	<b>0.1717</b>	<b>0.2482</b>	<b>1.0600e-003</b>	<b>0.0822</b>	<b>1.2800e-003</b>	<b>0.0835</b>	<b>0.0220</b>	<b>1.2100e-003</b>	<b>0.0233</b>	<b>0.0000</b>	<b>98.5023</b>	<b>98.5023</b>	<b>4.3800e-003</b>	<b>0.0000</b>	<b>98.6120</b>

**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	0.1959	1.4271	1.2727	2.1300e-003		0.0768	0.0768		0.0742	0.0742	0.0000	175.1880	175.1880	0.0325	0.0000	176.0010
<b>Total</b>	<b>0.1959</b>	<b>1.4271</b>	<b>1.2727</b>	<b>2.1300e-003</b>		<b>0.0768</b>	<b>0.0768</b>		<b>0.0742</b>	<b>0.0742</b>	<b>0.0000</b>	<b>175.1880</b>	<b>175.1880</b>	<b>0.0325</b>	<b>0.0000</b>	<b>176.0010</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7100e-003	0.1535	0.0418	3.6000e-004	9.1100e-003	7.9000e-004	9.9100e-003	2.6300e-003	7.6000e-004	3.3900e-003	0.0000	35.2358	35.2358	2.9400e-003	0.0000	35.3094
Worker	0.0260	0.0182	0.2064	7.0000e-004	0.0731	4.9000e-004	0.0736	0.0194	4.5000e-004	0.0199	0.0000	63.2664	63.2664	1.4400e-003	0.0000	63.3025
<b>Total</b>	<b>0.0307</b>	<b>0.1717</b>	<b>0.2482</b>	<b>1.0600e-003</b>	<b>0.0822</b>	<b>1.2800e-003</b>	<b>0.0835</b>	<b>0.0220</b>	<b>1.2100e-003</b>	<b>0.0233</b>	<b>0.0000</b>	<b>98.5023</b>	<b>98.5023</b>	<b>4.3800e-003</b>	<b>0.0000</b>	<b>98.6120</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.3400e-003	0.0477	0.0452	8.0000e-005		2.4000e-003	2.4000e-003		2.3100e-003	2.3100e-003	0.0000	6.3542	6.3542	1.1300e-003	0.0000	6.3825
<b>Total</b>	<b>6.3400e-003</b>	<b>0.0477</b>	<b>0.0452</b>	<b>8.0000e-005</b>		<b>2.4000e-003</b>	<b>2.4000e-003</b>		<b>2.3100e-003</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>6.3542</b>	<b>6.3542</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>6.3825</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	5.0000e-003	1.4000e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.2670	1.2670	1.0000e-004	0.0000	1.2695
Worker	8.8000e-004	5.9000e-004	6.9400e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2150	2.2150	5.0000e-005	0.0000	2.2162
<b>Total</b>	<b>1.0200e-003</b>	<b>5.5900e-003</b>	<b>8.3400e-003</b>	<b>3.0000e-005</b>	<b>2.9800e-003</b>	<b>3.0000e-005</b>	<b>3.0100e-003</b>	<b>8.0000e-004</b>	<b>3.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>3.4820</b>	<b>3.4820</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.4857</b>

**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	6.3400e-003	0.0477	0.0452	8.0000e-005		2.4000e-003	2.4000e-003		2.3100e-003	2.3100e-003	0.0000	6.3542	6.3542	1.1300e-003	0.0000	6.3825
<b>Total</b>	<b>6.3400e-003</b>	<b>0.0477</b>	<b>0.0452</b>	<b>8.0000e-005</b>		<b>2.4000e-003</b>	<b>2.4000e-003</b>		<b>2.3100e-003</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>6.3542</b>	<b>6.3542</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>6.3825</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	5.0000e-003	1.4000e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.2670	1.2670	1.0000e-004	0.0000	1.2695
Worker	8.8000e-004	5.9000e-004	6.9400e-003	2.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2150	2.2150	5.0000e-005	0.0000	2.2162
<b>Total</b>	<b>1.0200e-003</b>	<b>5.5900e-003</b>	<b>8.3400e-003</b>	<b>3.0000e-005</b>	<b>2.9800e-003</b>	<b>3.0000e-005</b>	<b>3.0100e-003</b>	<b>8.0000e-004</b>	<b>3.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>3.4820</b>	<b>3.4820</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.4857</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	1.2700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.1400e-003</b>	<b>0.0387</b>	<b>0.0443</b>	<b>7.0000e-005</b>		<b>2.0800e-003</b>	<b>2.0800e-003</b>		<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>5.8825</b>	<b>5.8825</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>5.9291</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.6000e-004	1.8700e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5962	0.5962	1.0000e-005	0.0000	0.5965
<b>Total</b>	<b>2.4000e-004</b>	<b>1.6000e-004</b>	<b>1.8700e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5962</b>	<b>0.5962</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5965</b>

**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	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	1.2700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.1400e-003</b>	<b>0.0387</b>	<b>0.0443</b>	<b>7.0000e-005</b>		<b>2.0800e-003</b>	<b>2.0800e-003</b>		<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>5.8825</b>	<b>5.8825</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>5.9291</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.6000e-004	1.8700e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5962	0.5962	1.0000e-005	0.0000	0.5965
<b>Total</b>	<b>2.4000e-004</b>	<b>1.6000e-004</b>	<b>1.8700e-003</b>	<b>1.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>7.2000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5962</b>	<b>0.5962</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5965</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
<b>Total</b>	<b>0.2292</b>	<b>7.6300e-003</b>	<b>9.0900e-003</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2788</b>



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**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	2.0100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6420	0.6420	1.0000e-005	0.0000	0.6424
<b>Total</b>	<b>2.6000e-004</b>	<b>1.7000e-004</b>	<b>2.0100e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6420</b>	<b>0.6420</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6424</b>

**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	0.2281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
<b>Total</b>	<b>0.2292</b>	<b>7.6300e-003</b>	<b>9.0900e-003</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2788</b>

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**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	2.0100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6420	0.6420	1.0000e-005	0.0000	0.6424
<b>Total</b>	<b>2.6000e-004</b>	<b>1.7000e-004</b>	<b>2.0100e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6420</b>	<b>0.6420</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6424</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0723	0.3165	1.0056	3.8000e-003	0.3412	2.8000e-003	0.3440	0.0914	2.6100e-003	0.0940	0.0000	349.6533	349.6533	0.0145	0.0000	350.0164
Unmitigated	0.0723	0.3165	1.0056	3.8000e-003	0.3412	2.8000e-003	0.3440	0.0914	2.6100e-003	0.0940	0.0000	349.6533	349.6533	0.0145	0.0000	350.0164

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	263.41	263.41	263.41	899,567	899,567
Parking Lot	0.00	0.00	0.00		
Total	263.41	263.41	263.41	899,567	899,567

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966
Parking Lot	0.558976	0.043534	0.209821	0.113949	0.016111	0.005791	0.025447	0.016654	0.001713	0.001553	0.004896	0.000590	0.000966

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**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	108.1488	108.1488	4.4600e-003	9.2000e-004	108.5358
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.1488	108.1488	4.4600e-003	9.2000e-004	108.5358
NaturalGas Mitigated	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0523	56.0523	1.0700e-003	1.0300e-003	56.3854
NaturalGas Unmitigated	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0523	56.0523	1.0700e-003	1.0300e-003	56.3854

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.05038e+006	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0523	56.0523	1.0700e-003	1.0300e-003	56.3854
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
<b>Total</b>		<b>5.6600e-003</b>	<b>0.0484</b>	<b>0.0206</b>	<b>3.1000e-004</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>56.0523</b>	<b>56.0523</b>	<b>1.0700e-003</b>	<b>1.0300e-003</b>	<b>56.3854</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.05038e+006	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0523	56.0523	1.0700e-003	1.0300e-003	56.3854
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
<b>Total</b>		<b>5.6600e-003</b>	<b>0.0484</b>	<b>0.0206</b>	<b>3.1000e-004</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>		<b>3.9100e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>56.0523</b>	<b>56.0523</b>	<b>1.0700e-003</b>	<b>1.0300e-003</b>	<b>56.3854</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	324307	103.3313	4.2700e-003	8.8000e-004	103.7010
Parking Lot	15120	4.8176	2.0000e-004	4.0000e-005	4.8348
<b>Total</b>		<b>108.1489</b>	<b>4.4700e-003</b>	<b>9.2000e-004</b>	<b>108.5358</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	324307	103.3313	4.2700e-003	8.8000e-004	103.7010
Parking Lot	15120	4.8176	2.0000e-004	4.0000e-005	4.8348
<b>Total</b>		<b>108.1489</b>	<b>4.4700e-003</b>	<b>9.2000e-004</b>	<b>108.5358</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3045	8.4800e-003	0.7352	4.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.0000	1.1987	1.1987	1.1700e-003	0.0000	1.2279
Unmitigated	0.5371	0.0269	1.1865	1.1900e-003		0.0718	0.0718		0.0718	0.0718	7.5416	15.6910	23.2325	0.0237	5.1000e-004	23.9765

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	0.0228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2594					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2326	0.0184	0.4513	1.1500e-003		0.0678	0.0678		0.0678	0.0678	7.5416	14.4923	22.0338	0.0225	5.1000e-004	22.7486
Landscaping	0.0224	8.4800e-003	0.7352	4.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.0000	1.1987	1.1987	1.1700e-003	0.0000	1.2279
<b>Total</b>	<b>0.5371</b>	<b>0.0269</b>	<b>1.1865</b>	<b>1.1900e-003</b>		<b>0.0718</b>	<b>0.0718</b>		<b>0.0718</b>	<b>0.0718</b>	<b>7.5416</b>	<b>15.6910</b>	<b>23.2325</b>	<b>0.0237</b>	<b>5.1000e-004</b>	<b>23.9765</b>

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**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	0.0228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2594					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0224	8.4800e-003	0.7352	4.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.0000	1.1987	1.1987	1.1700e-003	0.0000	1.2279
<b>Total</b>	<b>0.3045</b>	<b>8.4800e-003</b>	<b>0.7352</b>	<b>4.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>0.0000</b>	<b>1.1987</b>	<b>1.1987</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>1.2279</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.9831	0.1520	3.8100e-003	35.9177
Unmitigated	30.9831	0.1520	3.8100e-003	35.9177

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.62594 / 2.91635	30.9831	0.1520	3.8100e-003	35.9177
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>30.9831</b>	<b>0.1520</b>	<b>3.8100e-003</b>	<b>35.9177</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.62594 / 2.91635	30.9831	0.1520	3.8100e-003	35.9177
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>30.9831</b>	<b>0.1520</b>	<b>3.8100e-003</b>	<b>35.9177</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.6297	0.3918	0.0000	16.4248
Unmitigated	6.6297	0.3918	0.0000	16.4248

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.66	6.6297	0.3918	0.0000	16.4248
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.6297</b>	<b>0.3918</b>	<b>0.0000</b>	<b>16.4248</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.66	6.6297	0.3918	0.0000	16.4248
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.6297</b>	<b>0.3918</b>	<b>0.0000</b>	<b>16.4248</b>

**9.0 Operational Offroad**

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

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**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**

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