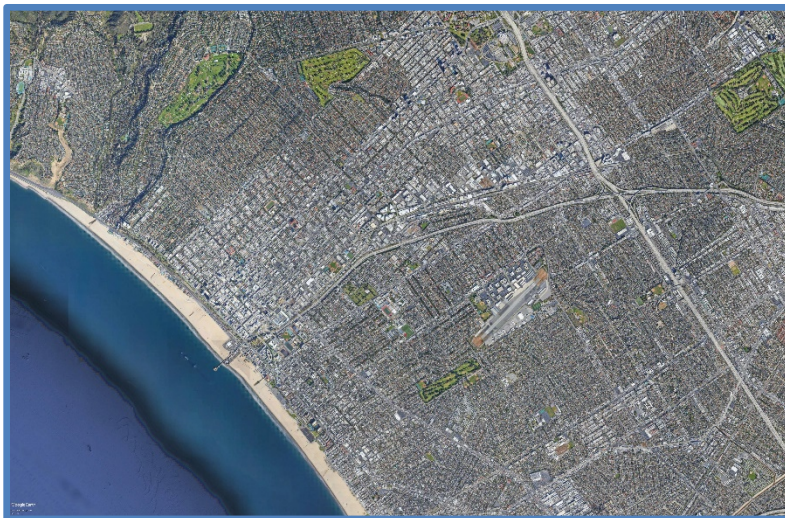


APPENDIX B

Air Quality and GHG Report with California Emissions Estimator Model (CalEEMod) Calculations

**City of Santa Monica
6th Cycle 2021-2029
Housing Element Update**

**Air Quality and GHG
Report**



prepared for:
**The City of Santa
Monica**



prepared by:
MRS Environmental



June 2021

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Attachment A: CalEEMod Files

1.0 Background

The Southern California Association of Governments (SCAG) has issued a Regional Housing Needs Allocation (RHNA) for the 8-year period between October 15, 2021 and October 15, 2029. SCAG has allocated 8,895 dwelling units (DUs) to the City of Santa Monica (City). The proposed Housing Element Update has been prepared by the City in response to these requirements. This analysis presents estimates for criteria air pollutants and greenhouse gas (GHG) emissions associated with the proposed construction and operation of the residential development planned for under the proposed Housing Element Update.

As part of the proposed Housing Element Update, the City prepared a Suitable Sites Inventory (SSI), which identified potential sites that could be redeveloped with housing through the planning horizon of 2030. The City completed a detailed land use analysis based on existing land use, current development activity, adopted plans and the SSI to develop an existing baseline (2020), future (2030) no project, and a future (2030) with project scenarios. These scenarios were used for this analysis and the Transportation Impact Report for the Housing Element Update, *Transportation Impact Report for the City of Santa Monica Housing Element Update 6th Cycle, Fehr & Peers, April 2021*.

2.0 Historical Activities and Future Scenarios

Emissions from construction and operation of the residential development planned for under the proposed Housing Element Update could vary over a wide range, depending on the number and types of individual projects. Many smaller projects could generate greater construction emissions per DU than a single, larger development, for example, as more construction equipment would be required, and more time may be required to develop the same number of DUs. In order to understand the range of developments that might occur in the future, and the corresponding range of emissions, the size of development projects used in this analysis included a review of historical development in the City over the last 10 years. This review derived the DU parameter data listed in Table 1 below.

Table 2.1 City of Santa Monica Historical Development Data

| | |
|-------------------------------------|-------|
| Average DU Per Single Development | 25 |
| Maximum DU for a Single Development | 397 |
| Average DU Size (sf) | 732 |
| Average DU Parking Spaces per DU | 1.37 |
| Average Commercial (sf/DU) | 0.318 |

Source: Wood Environment & Infrastructure Solutions Inc., City of Santa Monica

The Transportation Impact Report developed land use and population data for two build out scenarios as detailed in Table 2. Note the adjusted baseline data was updated for pre-pandemic conditions.

Table 2.2 City of Santa Monica Future Year 2030 Land Use and Population Assumptions

| Category | Adjusted Baseline | Future No Project | Future with Project |
|-----------------------------|-------------------|-------------------|---------------------|
| Population | 90,357 | 101,583 | 116,245 |
| Employment | 90,992 | 95,409 | 92,760 |
| Total Dwelling Units (DUs) | 52,589 | 57,552 | 64,883 |
| Total Commercial Space (sf) | 31,457,321 | 32,880,837 | 31,874,889 |

Source: Transportation Impact Report for the City of Santa Monica Housing Element Update 6th Cycle, Fehr & Peers, April 2021.

3.0 CalEEMod Emissions Model

The California Emissions Estimator (CalEEMod) was developed by the South Coast Air Quality Management District (SCAQMD) and California Air Pollution Control Officers Association (CAPCOA), as well as a number of Air Quality Management Districts (AQMDs) in California, to estimate emissions from construction and development projects. The model estimates construction emissions associated with demolition, site preparation, grading, building, coating, and paving activities from the following sources:

- Off-road construction equipment;
- On-road mobile equipment associated with workers, vendors, and hauling;
- Fugitive dust associated with grading, demolition, truck loading, and on-road vehicles traveling along paved and unpaved roads; and
- Architectural coating activities (including the painting/stripping of parking lots) and paving (reactive organic gases [ROG]).

Operation emissions are estimated for the following:

- On-road mobile vehicle traffic generated by the land uses;
- Fugitive dust associated with roads;
- Architectural coating activities (ROG);
- Off-road equipment (e.g., forklifts, cranes, etc.) used during operation;
- Landscaping equipment;
- Emergency generators, fire pumps, and process boilers;
- Use of consumer products, parking lot degreasers, fertilizers/pesticides, and cleaning supplies (ROG);
- Wood stoves and hearth usage;
- Natural gas usage in the buildings;
- Electricity usage in the buildings (greenhouse gas [GHG] only);
- Electricity usage from lighting in parking lots and lighting, ventilation, and elevators in parking structures;
- Water usage per land use (GHG only); and,
- Solid waste disposal per land use (GHG only).

In addition, there are a range of mitigation measures that can be assigned to a project.

This analysis utilized the most recent version (Version 2016.3.2) of the CalEEMod modeling program, as per the requirements of the SCAQMD. Data inputs for the analysis included both development project type specific information and model default values consistent with CalEEMod and SCAQMD modeling guidelines. Project-specific model input values for land use, area, and construction phase schedules utilized the scenario are listed above. Note the CalEEMod default construction schedule provides the number of days for each phase and a 5-day work week schedule

based on a Month Day, Year start date. Table 3.1 presents the project characteristic CalEEMod input data.

Table 3.1 CalEEMod Project Characteristic Inputs

| Parameter | Value |
|------------------|---------------------|
| Location | Air District SCAQMD |
| Wind Speed | 2.2 meters/second |
| Precipitation | 31 days |
| Land Use Setting | Urban |
| CEC Climate Zone | 11 |
| Utility Company | SoCal Edison |

3.1 CalEEMod Mitigation Options

The CalEEMod model contains mitigation measures to allow for estimating emissions before and after the mitigation methods have been applied. The mitigation measures are largely based on the CAPCOA Quantifying Greenhouse Gas Mitigation Measures document and include mitigation for the following issue areas:

- Construction;
- Traffic;
- Area;
- Energy;
- Water; and
- Solid waste.

The mitigation measures used for this analysis are listed in Table 4.2, construction, and Table 5.2, operational emissions. The City Green Building Code, Solar Ordinance, and other land use policy guidance documents contain requirements and guidelines that align with additional CalEEMod mitigation measures. These additional mitigation measures, summarized in Table 3.2 below, require project-specific data; however, they are still included here to present the mitigation options available in CalEEMod in parallel with the City climate friendly goals and guidance.

The traffic mitigation measures for this analysis were addressed through the Transportation Impact Report noted above and the vehicle miles traveled (VMT) per service population was matched with the Transportation Impact Report through modifications to the miles per trip numbers in the CalEEMod program. Therefore, while many of the CalEEMod transportation mitigation measures are applicable, they were all applied by modifications to the daily trip lengths in order to match the Transportation Impact Report values.

Table 3.2 CalEEMod Mitigation Measures and City Land Use Guidance

| City of Santa Monica Reference | CalEEMod Mitigation Option Code | Mitigation |
|---|--|-------------------|
| Green Building Standards 12. Architectural paints and coatings, adhesives, caulks, and sealants shall comply with the Volatile Organic Compound (VOC) limits listed in | Low VOC Paint | Low VOC Paint |

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| City of Santa Monica Reference | CalEEMod Mitigation Option Code | Mitigation |
|---|---------------------------------|--------------------------------------|
| Tables 4.504.1-4.504.3. The VOC Content Verification Checklist shall be completed and verified prior to final inspection approval. The manufacturer's specifications showing VOC content for all applicable products shall be readily available at the job site and be provided to the field inspector for verification (SMMC 4.504.2.1 through 4.504.2.4). | | |
| Land Use and Circulation Element Policy S3.1 "Zero Net" Electricity Consumption Goal by 2020. Actively strive to implement the City's "zero net" electricity consumption goal by 2020 through a wide variety of programs and measures, including the generation of renewable energy in the City and energy efficiency measures. | LE-1 | High Efficiency Lighting |
| Land Use and Circulation Element Policy S3.2 Net Zero Energy by 2020 for New Residential and 2030 for New Commercial. Consider a requirement for all new residential buildings to use net zero energy by 2020 and all new commercial buildings by 2030. | LE-1 | High Efficiency Lighting |
| Zero Net Energy Ordinance On-Site Renewable Energy | AE-1 | On-site Renewable Energy |
| Solar Ordinance | AE-1 | On-site Renewable Energy |
| Zero Net Energy Ordinance | BE-4 | Energy Efficient Appliances |
| Green Building Code 19. Newly installed bathroom exhaust fans shall be ENERGY STAR compliant and be ducted to terminate to the outside of the building. Provide the manufacturer's cut sheet for verification (SMMC 4.506.1). | BE-4 | Energy Efficient Fans |
| Green Building Code 20. Newly installed bathroom exhaust fans, not functioning as a component of a whole house ventilation system, must be controlled by a humidistat which shall be readily accessible (SMMC 4.506.1). | BE-4 | Energy Efficient Fans |
| Green Building Code 4. The flow rates for all plumbing fixtures shall comply with the maximum flow rates in Section 4.303.1 (SMMC 4.303.1). | WUW-2 | Water Conservation Strategy Plumbing |
| Green Building Code 5. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads controlled by a single valve shall not exceed 1.8 gallons per minute at 80psi, or the shower shall be designed to only allow one showerhead to be in operation at a time (SMMC 4.303.1.3.2). | WUW-2 | Water Conservation Strategy Plumbing |
| Green Building Code 7. Compliance with the adopted Water-Efficient Landscape and Irrigation Standards will be required for new development projects (SMMC 8.108.100). | WUW-3 | Water Efficient Landscape |

Source: City of Santa Monica Land Use Policy and Guidance Documents and CalEEMod Model Version 2016.3.2.

4.0 Construction Emissions

This section presents the development scenarios, model inputs, and air quality and GHG emissions results from the construction of the development projects contemplated in the proposed Housing Element Update.

As the CalEEMod model only generates emissions for a single development project, this analysis utilized a range of different scenarios in order to estimate the range of construction emissions that

could occur from future development and combined these scenarios in order to estimate the total emissions. As CalEEMod incorporates the reductions in vehicle and construction equipment emissions over time, this analysis also assumes a worst case scenario of construction activities in 2022. Construction emissions in later years would most likely produce lower emissions levels in the CalEEMod model.

4.1 Construction Emissions Scenarios

Emissions from construction are dependent on the type of development and the size of individual developments. Many small developments, for example, could generate more total emissions than a single development of the same total number of DU due to the need for more grading and the lack of economies of scale. In order to assess the range of potential construction emissions, and based on the data in Tables 2.1 and 2.2 above, three potential build out scenarios were developed for the construction analysis:

- Average development size scenario;
- Maximum development size scenario, and,
- Continuous development scenario.

The average development scenario assumes the average sized development as per the historical sized developments over the last 10 years that have occurred in the City. The maximum sized development assumes the largest development by DU number, that has occurred in the City over the last 10 years. These two scenarios are then combined to produce the anticipated number of DU produced per year in order to be on pace to achieve the project level over 8 years. For example, it is assumed that 14 developments of 25 DU per development (the average) along with 3 developments of 397 DU per development (the maximum) are developed per year over 8 years. This mix includes some low rise condominiums and some high rise apartments, each requiring different construction efforts. This mix then provides an estimate of the total annual and peak daily construction emissions.

The continuous scenario assumes that a single development is undertaken per year (i.e., the total DUs divided by the 8-year planning horizon). This assumes a single high rise apartment development and the associated construction emissions.

This approach allows for an estimate of the range of construction emissions that could occur under the proposed Housing Element Update. The analysis assumes that these construction emissions occur in 2022. As the air emissions model incorporates reductions in construction equipment emissions over time, the assumption of 2022 would produce the most conservative of construction emission estimates.

Note that the air emissions model addresses the total number of DU built, and then incorporates a rate of demolition as well, so that the scenarios utilize the net DU built incorporated into the analysis through the assumption of DU demolition square feet.

Table 4.1 provides a summary of the development scenarios used for the construction analysis.

Table 4.1 Air Quality Analysis Build Out Scenarios for Construction

| Development Component | Construction Emissions | | |
|--|-------------------------------|-------------------------------|---|
| | Average Development | Maximum Development | Continuous Development |
| Residential DU Number | 25 | 397 | 1,391 |
| Residential, Ft2 | 18,300 | 289,140 | 1,018,212 |
| Commercial, Ft2 | 5,819 | 91,947 | 323,887 |
| Parking Spaces | 35 | 542 | 1,906 |
| Demolished ft2 | 4,646 | 73,413 | 285,587 |
| Residential Type | Condo – low rise | Apartment – high rise | Apartment – high rise |
| Commercial Type | General Office | General Office | General Office |
| Landscaping, hardscapes, construction requirements | CalEEMod defaults based on sf | CalEEMod defaults based on sf | CalEEMod defaults based on sf |
| Construction Schedule | CalEEMod Default | CalEEMod Default | CalEEMod Default Adjusted for 8-year Schedule |
| Number of Developments per Year | 14 | 3 | 1 |
| Number of Developments over 8 years | 112 | 24 | 8 |

Assumes historical average of 732 sf/DU, commercial at 0.318 fraction sf and 1.37 parking spaces per DU. The DU that are removed due to demolishing are included in the demolished sf and include DU demolished and commercial demolished.

4.2 CalEEMod Mitigation Options: Construction

The mitigation options in Table 4.2 below were used based on SCAQMD and City land use policy and guidance documents associated with construction activities.

Table 4.2 CalEEMod Mitigation Options for Construction

| Mitigation | Reference |
|---|------------------------------------|
| Tier 4 Engines for all Construction Equipment | CARB/SCAQMD |
| Water Construction Areas Twice per Day | SCAQMD Rule 403 Fugitive Dust |
| Paint/Coatings | Per SCAQMD Rule 1113 |
| Vehicle Speed Reduction for Dust Control | 15 mph Standard Mitigation Measure |

4.3 CalEEMod Results: Construction

Construction emissions were estimated for the scenarios discussed in Section 4.1 above. Given the variety of potential projects and build out scenarios that may occur for the implementation of the proposed Housing Element Update, maximum daily and annual construction impacts are presented as a range of potential emissions.

4.3.1 Individual Projects Mix Emissions

The average and maximum scenarios discussed above were combined to present maximum emissions from the development of those two scenarios at the same time for a given year. As noted in Table 4.1 above, this approach estimates the development of 14 average and 3 maximum size developments in a year. Data are for mitigated emissions including the mitigation measures detailed in Table 4.2 above. Total GHG emissions are presented as pounds per day and metric tons carbon dioxide (CO₂) equivalent (CO₂e).

Table 4.3 Individual Project Mix Construction Emissions (lbs/day)

| ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|-----------------|--------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| 643.26 | 99.62 | 328.04 | 0.70 | 67.84 | 0.88 | 68.51 | 35.20 | 0.88 | 35.87 | 67,148.13 |

Table 4.4 Individual Project Mix Construction Emissions (tons/year)

| ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|------|-----------------|-------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| 6.63 | 10.10 | 36.02 | 0.07 | 2.08 | 0.09 | 2.17 | 0.57 | 0.09 | 0.66 | 6,501.41 |

4.3.2 Continuous Project Emissions

The continuous scenario, described in Section 4.1 above, assumes that a single development is undertaken per year (i.e., the total DUs divided by the 8-year planning horizon). Data are for mitigated emissions including the mitigation measures detailed in Table 4.2 above.

Table 4.5 Continuous Project Construction Emissions (lbs/day)

| ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|----------|-----------------|-------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| 1,028.45 | 38.48 | 79.50 | 0.28 | 35.74 | 0.23 | 35.85 | 5.29 | 0.21 | 5.50 | 28,869.85 |

Table 4.6 Individual Project Mix Construction Emissions (tons/year)

| ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|------|-----------------|------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| 5.92 | 4.11 | 8.09 | 0.03 | 2.11 | 0.02 | 2.14 | 0.55 | 0.02 | 0.58 | 2,659.54 |

The tables above provide for a range of emissions depending on the type of projects proposed. For the NO_x emissions, having many smaller, individual projects produces higher NO_x values as more construction equipment would be needed. For ROG emissions, the single, larger continuous project would conduct most of the architectural coating at the same time, thereby producing a higher peak day of ROG emissions, but a similar total overall.

5.0 Operational Emissions

This section presents the development scenarios, model inputs, and air quality and GHG emissions results from the operational aspect of the development projects contemplated in the proposed Housing Element Update.

5.1 Operations Emissions Scenarios

Operational emissions are calculated separately from the construction emissions in the air emissions model. This is because the model incorporates varying vehicle emissions and appliance emission levels over time, incorporating the operating year into the analysis, as well as requiring that construction is completed before operations (or occupancy) occurs. As the exact configuration of development is not known, and a number of developments would be constructed and occupied in parallel at different times, a range of developments are addressed based on historical developments in Santa Monica. The operating year is assumed to be 2030 when all developments are completed.

The operational analysis is based on the following:

- Operational emissions based on a future no project scenario; and
- Operational emissions based on the future project scenario.

Table 5.1 shows the operational characteristics of each scenario.

Table 5.1 Air Quality Analysis Operational Scenarios

| Development Component | Operational Emissions | |
|--|---|---|
| | No Project | No Project |
| Residential DU Number | 57,552 | 64,883 |
| Residential, Ft2 | 3,632,916 | 8,999,208 |
| Commercial, Ft2 | 1,423,516 | 417,568 |
| Parking Spaces | 6,799 | 16,843 |
| Demolished ft2 | 922,399 | 2,284,903 |
| Residential Type | 20% Condo/townhouse 80% Apartment High Rise | 20% Condo/townhouse 80% Apartment High Rise |
| Commercial Type | General Office | General Office |
| Residential Vehicle Trip Generation rates per SP | 35.4 | 31.9 |
| Landscaping, hardscapes, construction requirements | CalEEMod defaults based on sf | CalEEMod defaults based on sf |
| Energy use and water | CalEEMod defaults based on sf and/or City Green Building Code | CalEEMod defaults based on sf and/or City Green Building Code |

Assumes historical average of 732 sf/DU, commercial at 0.318 fraction sf and 1.37 parking spaces per DU. The DU that are removed due to demolishing are included in the demolished ft2 and include DU demolished and commercial demolished.

5.2 CalEEMod Mitigation Options: Operations

The mitigation options in Table 5.2 below were used based on the range of City policies and programs to address green development as listed in Table 3.2 above. For VMT, the Transportation Impact Report VMT per service population numbers were utilized in CalEEMod to modify the miles per trip to approximate the same VMT for the total project in terms of VMT per service population at the Transportation Impact Report.

Table 5.2 CalEEMod Mitigation Options for Operations

| Mitigation | Reference |
|------------------------------|--|
| Mobile Traffic Mitigation | Addressed through Traffic Impact Report Data |
| All Electric Leaf Blowers | Gas Power Leaf Blowers Banned in City Limits (SMMC 4.08.270) |
| No wood stoves or fireplaces | City Green Building Standard #9 |
| Water Efficient Landscaping | City Green Building Standard #7 (SMMC 8.108.100) |
| Energy 100% Solar | City Solar Ordinance |

5.3 CalEEMod Results: Operational

Operational emissions were estimated for the two scenarios summarized in Table 5.1 above, the future no project and the future project. The operational emissions are presented below for an unmitigated and a mitigated case, with the mitigated case utilizing the measures listed in Table 5.1 and the

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unmitigated case utilizing the minimum requirements listed in Table 3.2 (e.g., gas-only fireplaces as compared to no fireplaces).

5.3.1 Operational Emissions No Project

Operational emissions for the no project, which would involve development of fewer DU through 2030, are listed below.

Table 5.3 No Project Operational Emissions (lbs/day)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|--------|-----------------|---------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 138.56 | 74.70 | 438.99 | 0.47 | - | 7.93 | 7.93 | - | 7.93 | 7.93 | 90,631.19 |
| Energy | 2.05 | 17.80 | 9.22 | 0.11 | - | 1.42 | 1.42 | - | 1.42 | 1.42 | 22,546.65 |
| Mobile | 55.49 | 301.44 | 822.71 | 4.16 | 449.23 | 2.52 | 451.75 | 120.15 | 2.34 | 122.49 | 426,623.44 |
| Total | 196.11 | 393.94 | 1270.92 | 4.74 | 449.23 | 11.87 | 461.10 | 120.15 | 11.69 | 131.84 | 539,801.29 |

Table 5.4 Mitigated No Project Operational Emissions (lbs/day)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|--------|-----------------|---------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 129.83 | 4.70 | 407.35 | 0.02 | - | 2.27 | 2.27 | - | 2.27 | 2.27 | 750.89 |
| Energy | 2.05 | 17.80 | 9.22 | 0.11 | - | 1.42 | 1.42 | - | 1.42 | 1.42 | 22,546.65 |
| Mobile | 55.49 | 301.44 | 822.71 | 4.16 | 449.23 | 2.52 | 451.75 | 120.15 | 2.34 | 122.49 | 426,623.44 |
| Total | 187.38 | 323.94 | 1239.29 | 4.29 | 449.23 | 6.21 | 455.44 | 120.15 | 6.03 | 126.18 | 449,920.98 |

Table 5.5 No Project Operational Emissions (tons/year)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|-------|-----------------|--------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 23.19 | 1.46 | 51.52 | 0.01 | - | 0.35 | 0.35 | - | 0.35 | 0.35 | 1,104.97 |
| Energy | 0.38 | 3.25 | 1.68 | 0.02 | - | 0.26 | 0.26 | - | 0.26 | 0.26 | 16,559.34 |
| Mobile | 8.29 | 46.49 | 127.41 | 0.64 | 66.98 | 0.38 | 67.37 | 17.94 | 0.35 | 18.30 | 59,551.50 |
| Waste | - | - | - | - | - | - | - | - | 0.00 | 0.00 | 3,039.33 |
| Water | - | - | - | - | - | - | - | - | 0.00 | 0.00 | 6,790.96 |
| Total | 31.86 | 51.20 | 180.61 | 0.67 | 66.98 | 1.00 | 67.98 | 17.94 | 0.97 | 18.91 | 87,046.01 |

Note: GHG emissions are in MT.

Table 5.6 Mitigated No Project Operational Emissions (tons/year)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|-------|-----------------|--------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 23.02 | 0.59 | 50.92 | 0.00 | - | 0.28 | 0.28 | - | 0.28 | 0.28 | 85.15 |
| Energy | 0.38 | 3.25 | 1.68 | 0.02 | - | 0.26 | 0.26 | - | 0.26 | 0.26 | 3,732.85 |
| Mobile | 8.29 | 46.49 | 127.41 | 0.64 | 66.98 | 0.38 | 67.37 | 17.94 | 0.35 | 18.30 | 59,551.50 |
| Waste | - | - | - | - | - | 0.00 | 0.00 | - | 0.00 | 0.00 | 3,039.33 |
| Water | - | - | - | - | - | 0.00 | 0.00 | - | 0.00 | 0.00 | 4,846.09 |
| Total | 31.69 | 50.33 | 180.01 | 0.66 | 66.98 | 0.92 | 67.91 | 17.94 | 0.90 | 18.84 | 71,254.83 |

Note: GHG emissions are in MT.

5.3.2 Operational Emissions Future Project

Operational emissions for the project, which would involve development of the full DU requirements through 2030, are listed below.

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Table 5.7 Future Project Operational Emissions (lbs/day)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|--------|-----------------|---------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 256.54 | 185.02 | 1087.11 | 1.16 | - | 19.65 | 19.65 | - | 19.65 | 19.65 | 22,4482.98 |
| Energy | 4.13 | 35.39 | 15.54 | 0.23 | - | 2.86 | 2.86 | - | 2.86 | 2.86 | 45,356.01 |
| Mobile | 90.63 | 492.55 | 1337.97 | 6.76 | 729.38 | 4.09 | 733.47 | 195.08 | 3.80 | 221.38 | 69,3085.90 |
| Total | 351.31 | 712.96 | 2440.62 | 8.14 | 729.38 | 26.59 | 755.97 | 195.08 | 26.30 | 221.38 | 962,924.90 |

Table 5.8 Mitigated Future Project Operational Emissions (lbs/day)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|--------|-----------------|---------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 234.93 | 11.64 | 1008.76 | 0.05 | - | 5.62 | 5.62 | - | 5.62 | 5.62 | 1,859.36 |
| Energy | 4.13 | 35.39 | 15.54 | 0.23 | - | 2.86 | 2.86 | - | 2.86 | 2.86 | 45,356.01 |
| Mobile | 90.63 | 492.55 | 1337.97 | 6.76 | 729.38 | 4.09 | 733.47 | 195.08 | 3.80 | 198.88 | 693,085.90 |
| Total | 329.69 | 539.57 | 2362.27 | 7.04 | 729.38 | 12.57 | 741.95 | 195.08 | 12.28 | 207.36 | 740,301.27 |

Table 5.9 Future Project Operational Emissions (tons/year)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|-------|-----------------|--------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 41.62 | 3.63 | 127.59 | 0.02 | - | 0.88 | 0.88 | - | 0.88 | 0.88 | 2,736.83 |
| Energy | 0.75 | 6.46 | 2.84 | 0.04 | - | 0.52 | 0.52 | - | 0.52 | 0.52 | 26,369.41 |
| Mobile | 14.13 | 79.27 | 216.08 | 1.08 | 113.41 | 0.65 | 114.06 | 30.38 | 0.60 | 30.98 | 100,894.64 |
| Waste | - | - | - | - | - | 0.00 | 0.00 | - | 0.00 | 0.00 | 3,039.33 |
| Water | - | - | - | - | - | 0.00 | 0.00 | - | 0.00 | 0.00 | 6,790.96 |
| Total | 56.51 | 89.35 | 346.50 | 1.15 | 113.41 | 2.05 | 115.46 | 30.38 | 2.00 | 32.38 | 139,831.16 |

Note: GHG emissions are in MT.

Table 5.10 Mitigated Future Project Operational Emissions (tons/year)

| | ROG | NO _x | CO | SO ₂ | Fugitive PM ₁₀ | Exhaust PM ₁₀ | Total PM ₁₀ | Fugitive PM _{2.5} | Exhaust PM _{2.5} | Total PM _{2.5} | GHG CO ₂ e |
|--------|-------|-----------------|--------|-----------------|---------------------------|--------------------------|------------------------|----------------------------|---------------------------|-------------------------|-----------------------|
| Area | 41.20 | 1.45 | 126.09 | 0.01 | - | 0.70 | 0.70 | - | 0.70 | 0.70 | 210.85 |
| Energy | 0.75 | 6.46 | 2.84 | 0.04 | - | 0.52 | 0.52 | - | 0.52 | 0.52 | 7,509.20 |
| Mobile | 14.13 | 79.27 | 216.08 | 1.08 | 113.41 | 0.65 | 114.06 | 30.38 | 0.60 | 30.98 | 100,894.64 |
| Waste | - | - | - | - | - | 0.00 | 0.00 | - | 0.00 | 0.00 | 3,039.33 |
| Water | - | - | - | - | - | 0.00 | 0.00 | - | 0.00 | 0.00 | 4,846.09 |
| Total | 56.09 | 87.18 | 345.01 | 1.13 | 113.41 | 1.87 | 115.28 | 30.38 | 1.82 | 32.20 | 116,500.10 |

Note: GHG emissions are in MT.

Attachment A
CalEEMod Modeling Files

- Future Project Average Winter (Construction - Individual Project lbs/day)
- Future Project Average Summer
- Future Project Average Annual (Construction - Individual Project tons/yr)
- Future Project Max Winter (Construction - Individual Project lbs/day)
- Future Project Max Summer
- Future Project Max Annual (Construction - Individual Project tons/yr)
- Future Project Continuous Winter (Construction - Continuous Project lbs/day)
- Future Project Continuous Summer
- Future Project Continuous Annual (Construction - Continuous Project tons/yr)
- No Project Ops Summer with VMT adjust
- No Project Ops Winter with VMT adjust (Operational - Max Hourly lbs/day)
- No Project Ops Annual with VMT adjust (Operational - Annual tons/yr)
- Future Project Ops Summer with VMT adjust
- Future Project Ops Winter with VMT adjust (Operational - Max Hourly lbs/day)
- Future Project Ops Annual with VMT adjust (Operational - Annual tons/yr)

Note: Summer and Winter scenario model runs completed to determine maximum hourly emissions. Winter scenario for all cases in this analysis.

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

**Santa Monica Housing Element - Future Project - Average Development Scenario
South Coast AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 5.82 | 1000sqft | 0.13 | 5,819.00 | 0 |
| Parking Lot | 35.00 | Space | 0.32 | 14,000.00 | 0 |
| Condo/Townhouse | 25.00 | Dwelling Unit | 1.56 | 18,300.00 | 72 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

Project Characteristics - File Name Future Project Average

25 DUs
 14 DEvelopments/year
 Total # DEvelopments over 8 years - 112
 Land Use - 25 DU at 732 sq ft = 18,300
 Commercial = 5,819 ft²

Construction Phase -

Demolition - Demolition 185.9 ft²/DU=4,646

Woodstoves - No wood stoves
 Gas only fireplace, assume 20%

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
 No fireplaces
 Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l

Energy Mitigation - 100% solar

Water Mitigation - Green building code requires water effcient landscape and irrigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,910.00 | 2,595.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 8,729.00 | 7,784.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 2910 | 2595 |
| tblAreaCoating | Area_Nonresidential_Interior | 8729 | 7784 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 50 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 50 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

| | | | |
|-------------------------|--------------------------|--------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 3.00 | 2.00 |
| tblConstructionPhase | NumDays | 6.00 | 4.00 |
| tblConstructionPhase | NumDays | 220.00 | 200.00 |
| tblFireplaces | NumberGas | 21.25 | 5.00 |
| tblFireplaces | NumberNoFireplace | 2.50 | 20.00 |
| tblFireplaces | NumberWood | 1.25 | 0.00 |
| tblLandUse | LandUseSquareFeet | 5,820.00 | 5,819.00 |
| tblLandUse | LandUseSquareFeet | 25,000.00 | 18,300.00 |
| tblSolidWaste | SolidWasteGenerationRate | 5.41 | 4.83 |
| tblWater | IndoorWaterUseRate | 1,034,410.41 | 922,438.15 |
| tblWater | OutdoorWaterUseRate | 633,993.48 | 565,365.32 |
| tblWoodstoves | NumberCatalytic | 1.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.25 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.6004 | 0.1068 | 2.1025 | 6.4000e-004 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | 0.0000 | 109.6051 | 109.6051 | 5.6200e-003 | 1.9400e-003 | 110.3242 |
| Energy | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |
| Mobile | 0.3135 | 1.4755 | 4.1584 | 0.0167 | 1.4951 | 0.0120 | 1.5072 | 0.4000 | 0.0112 | 0.4112 | | 1,699.7487 | 1,699.7487 | 0.0781 | | 1,701.7023 |
| Total | 0.9291 | 1.7137 | 6.3236 | 0.0181 | 1.4951 | 0.0407 | 1.5359 | 0.4000 | 0.0399 | 0.4399 | 0.0000 | 1,975.9818 | 1,975.9818 | 0.0870 | 4.9900e-003 | 1,979.6447 |

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 | 0.5813 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 3.6975 | 3.6975 | 3.4200e-003 | 0.0000 | 3.7830 |
| Energy | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |
| Mobile | 0.3135 | 1.4755 | 4.1584 | 0.0167 | 1.4951 | 0.0120 | 1.5072 | 0.4000 | 0.0112 | 0.4112 | | 1,699.7487 | 1,699.7487 | 0.0781 | | 1,701.7023 |
| Total | 0.9100 | 1.6307 | 6.2788 | 0.0176 | 1.4951 | 0.0340 | 1.5291 | 0.4000 | 0.0332 | 0.4332 | 0.0000 | 1,870.0742 | 1,870.0742 | 0.0848 | 3.0500e-003 | 1,873.1035 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 2.05 | 4.84 | 0.71 | 2.92 | 0.00 | 16.50 | 0.44 | 0.00 | 16.85 | 1.53 | 0.00 | 5.36 | 5.36 | 2.53 | 38.88 | 5.38 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/1/2022 | 5 | 2 | |
| 3 | Grading | Grading | 2/2/2022 | 2/7/2022 | 5 | 4 | |
| 4 | Building Construction | Building Construction | 2/8/2022 | 11/14/2022 | 5 | 200 | |
| 5 | Paving | Paving | 11/15/2022 | 11/28/2022 | 5 | 10 | |
| 6 | Architectural Coating | Architectural Coating | 11/29/2022 | 12/12/2022 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.32

Residential Indoor: 37,058; Residential Outdoor: 12,353; Non-Residential Indoor: 7,784; Non-Residential Outdoor: 2,595; Striped Parking Area: 840 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 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 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 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

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 21.00 | 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 | 4 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 26.00 | 6.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2287 | 0.0000 | 0.2287 | 0.0346 | 0.0000 | 0.0346 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6889 | 16.6217 | 13.9605 | 0.0241 | | 0.8379 | 0.8379 | | 0.7829 | 0.7829 | | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |
| Total | 1.6889 | 16.6217 | 13.9605 | 0.0241 | 0.2287 | 0.8379 | 1.0666 | 0.0346 | 0.7829 | 0.8175 | | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 7.4400e-003 | 0.2481 | 0.0595 | 7.8000e-004 | 0.0184 | 7.2000e-004 | 0.0191 | 5.0300e-003 | 6.9000e-004 | 5.7200e-003 | | 84.4686 | 84.4686 | 5.9400e-003 | | 84.6171 |
| 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 | 0.0564 | 0.0352 | 0.4062 | 1.3000e-003 | 0.1453 | 1.0400e-003 | 0.1464 | 0.0385 | 9.6000e-004 | 0.0395 | | 129.8098 | 129.8098 | 3.2600e-003 | | 129.8912 |
| Total | 0.0638 | 0.2833 | 0.4658 | 2.0800e-003 | 0.1637 | 1.7600e-003 | 0.1654 | 0.0436 | 1.6500e-003 | 0.0452 | | 214.2784 | 214.2784 | 9.2000e-003 | | 214.5083 |

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 | | | | | 0.1029 | 0.0000 | 0.1029 | 0.0156 | 0.0000 | 0.0156 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2811 | 1.2179 | 14.7184 | 0.0241 | | 0.0375 | 0.0375 | | 0.0375 | 0.0375 | 0.0000 | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |
| Total | 0.2811 | 1.2179 | 14.7184 | 0.0241 | 0.1029 | 0.0375 | 0.1404 | 0.0156 | 0.0375 | 0.0531 | 0.0000 | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 7.4400e-003 | 0.2481 | 0.0595 | 7.8000e-004 | 0.0184 | 7.2000e-004 | 0.0191 | 5.0300e-003 | 6.9000e-004 | 5.7200e-003 | | 84.4686 | 84.4686 | 5.9400e-003 | | 84.6171 |
| 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 | 0.0564 | 0.0352 | 0.4062 | 1.3000e-003 | 0.1453 | 1.0400e-003 | 0.1464 | 0.0385 | 9.6000e-004 | 0.0395 | | 129.8098 | 129.8098 | 3.2600e-003 | | 129.8912 |
| Total | 0.0638 | 0.2833 | 0.4658 | 2.0800e-003 | 0.1637 | 1.7600e-003 | 0.1654 | 0.0436 | 1.6500e-003 | 0.0452 | | 214.2784 | 214.2784 | 9.2000e-003 | | 214.5083 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.5908 | 0.0000 | 1.5908 | 0.1718 | 0.0000 | 0.1718 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3784 | 15.6673 | 10.0558 | 0.0245 | | 0.5952 | 0.5952 | | 0.5476 | 0.5476 | | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |
| Total | 1.3784 | 15.6673 | 10.0558 | 0.0245 | 1.5908 | 0.5952 | 2.1859 | 0.1718 | 0.5476 | 0.7193 | | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0347 | 0.0217 | 0.2500 | 8.0000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 79.8829 | 79.8829 | 2.0100e-003 | | 79.9331 |
| Total | 0.0347 | 0.0217 | 0.2500 | 8.0000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 79.8829 | 79.8829 | 2.0100e-003 | | 79.9331 |

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 | | | | | 0.7158 | 0.0000 | 0.7158 | 0.0773 | 0.0000 | 0.0773 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3008 | 1.3034 | 11.8595 | 0.0245 | | 0.0401 | 0.0401 | | 0.0401 | 0.0401 | 0.0000 | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |
| Total | 0.3008 | 1.3034 | 11.8595 | 0.0245 | 0.7158 | 0.0401 | 0.7559 | 0.0773 | 0.0401 | 0.1174 | 0.0000 | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0347 | 0.0217 | 0.2500 | 8.0000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 79.8829 | 79.8829 | 2.0100e-003 | | 79.9331 |
| Total | 0.0347 | 0.0217 | 0.2500 | 8.0000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 79.8829 | 79.8829 | 2.0100e-003 | | 79.9331 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5403 | 16.9836 | 9.2202 | 0.0206 | | 0.7423 | 0.7423 | | 0.6829 | 0.6829 | | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |
| Total | 1.5403 | 16.9836 | 9.2202 | 0.0206 | 6.5523 | 0.7423 | 7.2946 | 3.3675 | 0.6829 | 4.0504 | | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0434 | 0.0271 | 0.3125 | 1.0000e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 99.8537 | 99.8537 | 2.5100e-003 | | 99.9163 |
| Total | 0.0434 | 0.0271 | 0.3125 | 1.0000e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 99.8537 | 99.8537 | 2.5100e-003 | | 99.9163 |

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 | | | | | 2.9486 | 0.0000 | 2.9486 | 1.5154 | 0.0000 | 1.5154 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2522 | 1.0927 | 10.9071 | 0.0206 | | 0.0336 | 0.0336 | | 0.0336 | 0.0336 | 0.0000 | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |
| Total | 0.2522 | 1.0927 | 10.9071 | 0.0206 | 2.9486 | 0.0336 | 2.9822 | 1.5154 | 0.0336 | 1.5490 | 0.0000 | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0434 | 0.0271 | 0.3125 | 1.0000e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 99.8537 | 99.8537 | 2.5100e-003 | | 99.9163 |
| Total | 0.0434 | 0.0271 | 0.3125 | 1.0000e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 99.8537 | 99.8537 | 2.5100e-003 | | 99.9163 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.8555 | 14.6040 | 14.3533 | 0.0250 | | 0.7022 | 0.7022 | | 0.6731 | 0.6731 | | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |
| Total | 1.8555 | 14.6040 | 14.3533 | 0.0250 | | 0.7022 | 0.7022 | | 0.6731 | 0.6731 | | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0165 | 0.5410 | 0.1437 | 1.4700e-003 | 0.0384 | 1.0300e-003 | 0.0394 | 0.0111 | 9.9000e-004 | 0.0120 | | 157.3165 | 157.3165 | 0.0102 | | 157.5720 |
| Worker | 0.1128 | 0.0704 | 0.8124 | 2.6000e-003 | 0.2906 | 2.0800e-003 | 0.2927 | 0.0771 | 1.9100e-003 | 0.0790 | | 259.6195 | 259.6195 | 6.5200e-003 | | 259.7824 |
| Total | 0.1293 | 0.6114 | 0.9561 | 4.0700e-003 | 0.3290 | 3.1100e-003 | 0.3321 | 0.0881 | 2.9000e-003 | 0.0910 | | 416.9360 | 416.9360 | 0.0167 | | 417.3544 |

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 | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |
| Total | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0165 | 0.5410 | 0.1437 | 1.4700e-003 | 0.0384 | 1.0300e-003 | 0.0394 | 0.0111 | 9.9000e-004 | 0.0120 | | 157.3165 | 157.3165 | 0.0102 | | 157.5720 |
| Worker | 0.1128 | 0.0704 | 0.8124 | 2.6000e-003 | 0.2906 | 2.0800e-003 | 0.2927 | 0.0771 | 1.9100e-003 | 0.0790 | | 259.6195 | 259.6195 | 6.5200e-003 | | 259.7824 |
| Total | 0.1293 | 0.6114 | 0.9561 | 4.0700e-003 | 0.3290 | 3.1100e-003 | 0.3321 | 0.0881 | 2.9000e-003 | 0.0910 | | 416.9360 | 416.9360 | 0.0167 | | 417.3544 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0838 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0250 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |

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 | 0.2104 | 0.9117 | 12.9737 | 0.0179 | | 0.0281 | 0.0281 | | 0.0281 | 0.0281 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0838 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2942 | 0.9117 | 12.9737 | 0.0179 | | 0.0281 | 0.0281 | | 0.0281 | 0.0281 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 16.6510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 16.8556 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0217 | 0.0135 | 0.1562 | 5.0000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 49.9268 | 49.9268 | 1.2500e-003 | | 49.9582 |
| Total | 0.0217 | 0.0135 | 0.1562 | 5.0000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 49.9268 | 49.9268 | 1.2500e-003 | | 49.9582 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 16.6510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 16.6807 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0217 | 0.0135 | 0.1562 | 5.0000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 49.9268 | 49.9268 | 1.2500e-003 | | 49.9582 |
| Total | 0.0217 | 0.0135 | 0.1562 | 5.0000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 49.9268 | 49.9268 | 1.2500e-003 | | 49.9582 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.3135 | 1.4755 | 4.1584 | 0.0167 | 1.4951 | 0.0120 | 1.5072 | 0.4000 | 0.0112 | 0.4112 | | 1,699.748 7 | 1,699.748 7 | 0.0781 | | 1,701.702 3 |
| Unmitigated | 0.3135 | 1.4755 | 4.1584 | 0.0167 | 1.4951 | 0.0120 | 1.5072 | 0.4000 | 0.0112 | 0.4112 | | 1,699.748 7 | 1,699.748 7 | 0.0781 | | 1,701.702 3 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse | 145.25 | 141.75 | 121.00 | 482,795 | 482,795 |
| General Office Building | 64.19 | 14.32 | 6.11 | 157,116 | 157,116 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 209.44 | 156.07 | 127.11 | 639,911 | 639,911 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Condo/Townhouse | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Parking Lot | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |
| NaturalGas Unmitigated | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse | 1250.38 | 0.0135 | 0.1152 | 0.0490 | 7.4000e-004 | | 9.3200e-003 | 9.3200e-003 | | 9.3200e-003 | 9.3200e-003 | | 147.1031 | 147.1031 | 2.8200e-003 | 2.7000e-003 | 147.9773 |
| General Office Building | 165.961 | 1.7900e-003 | 0.0163 | 0.0137 | 1.0000e-004 | | 1.2400e-003 | 1.2400e-003 | | 1.2400e-003 | 1.2400e-003 | | 19.5248 | 19.5248 | 3.7000e-004 | 3.6000e-004 | 19.6409 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0153 | 0.1315 | 0.0627 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0600e-003 | 167.6182 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse | 1.25038 | 0.0135 | 0.1152 | 0.0490 | 7.4000e-004 | | 9.3200e-003 | 9.3200e-003 | | 9.3200e-003 | 9.3200e-003 | | 147.1031 | 147.1031 | 2.8200e-003 | 2.7000e-003 | 147.9773 |
| General Office Building | 0.165961 | 1.7900e-003 | 0.0163 | 0.0137 | 1.0000e-004 | | 1.2400e-003 | 1.2400e-003 | | 1.2400e-003 | 1.2400e-003 | | 19.5248 | 19.5248 | 3.7000e-004 | 3.6000e-004 | 19.6409 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0153 | 0.1315 | 0.0627 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0600e-003 | 167.6182 |

6.0 Area Detail

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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 | 0.5813 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 3.6975 | 3.6975 | 3.4200e-003 | 0.0000 | 3.7830 |
| Unmitigated | 0.6004 | 0.1068 | 2.1025 | 6.4000e-004 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | 0.0000 | 109.6051 | 109.6051 | 5.6200e-003 | 1.9400e-003 | 110.3242 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

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 | 0.0456 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Consumer Products | 0.4825 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | | 0.0000 |
| Hearth | 9.7100e-003 | 0.0829 | 0.0353 | 5.3000e-004 | | 6.7100e-003 | 6.7100e-003 | | 6.7100e-003 | 6.7100e-003 | 0.0000 | 105.8824 | 105.8824 | 2.0300e-003 | 1.9400e-003 | | 106.5116 |
| Landscaping | 0.0625 | 0.0238 | 2.0672 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | | 3.7227 | 3.7227 | 3.5900e-003 | | | 3.8126 |
| Total | 0.6004 | 0.1068 | 2.1025 | 6.4000e-004 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | 0.0000 | 109.6051 | 109.6051 | 5.6200e-003 | 1.9400e-003 | | 110.3242 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.0390 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.4825 | | | | | 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 | 0.0598 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | | 3.6975 | 3.6975 | 3.4200e-003 | | 3.7830 |
| Total | 0.5813 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 3.6975 | 3.6975 | 3.4200e-003 | 0.0000 | 3.7830 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Winter

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

**Santa Monica Housing Element - Future Project - Average Development Scenario
South Coast AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 5.82 | 1000sqft | 0.13 | 5,819.00 | 0 |
| Parking Lot | 35.00 | Space | 0.32 | 14,000.00 | 0 |
| Condo/Townhouse | 25.00 | Dwelling Unit | 1.56 | 18,300.00 | 72 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

Project Characteristics - File Name Future Project Average

25 DUs
 14 DEvelopments/year
 Total # DEvelopments over 8 years - 112
 Land Use - 25 DU at 732 sq ft = 18,300
 Commercial = 5,819 ft²

Construction Phase -

Demolition - Demolition 185.9 ft²/DU=4,646

Woodstoves - No wood stoves
 Gas only fireplace, assume 20%

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
 No fireplaces
 Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l

Energy Mitigation - 100% solar

Water Mitigation - Green building code requires water effcient landscape and irrigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,910.00 | 2,595.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 8,729.00 | 7,784.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 2910 | 2595 |
| tblAreaCoating | Area_Nonresidential_Interior | 8729 | 7784 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 50 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 50 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

| | | | |
|-------------------------|--------------------------|--------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 3.00 | 2.00 |
| tblConstructionPhase | NumDays | 6.00 | 4.00 |
| tblConstructionPhase | NumDays | 220.00 | 200.00 |
| tblFireplaces | NumberGas | 21.25 | 5.00 |
| tblFireplaces | NumberNoFireplace | 2.50 | 20.00 |
| tblFireplaces | NumberWood | 1.25 | 0.00 |
| tblLandUse | LandUseSquareFeet | 5,820.00 | 5,819.00 |
| tblLandUse | LandUseSquareFeet | 25,000.00 | 18,300.00 |
| tblSolidWaste | SolidWasteGenerationRate | 5.41 | 4.83 |
| tblWater | IndoorWaterUseRate | 1,034,410.41 | 922,438.15 |
| tblWater | OutdoorWaterUseRate | 633,993.48 | 565,365.32 |
| tblWoodstoves | NumberCatalytic | 1.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.25 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.6004 | 0.1068 | 2.1025 | 6.4000e-004 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | 0.0000 | 109.6051 | 109.6051 | 5.6200e-003 | 1.9400e-003 | 110.3242 |
| Energy | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |
| Mobile | 0.3310 | 1.4470 | 4.4628 | 0.0176 | 1.4951 | 0.0120 | 1.5071 | 0.4000 | 0.0111 | 0.4112 | | 1,794.0784 | 1,794.0784 | 0.0784 | | 1,796.0372 |
| Total | 0.9467 | 1.6852 | 6.6280 | 0.0191 | 1.4951 | 0.0407 | 1.5358 | 0.4000 | 0.0398 | 0.4398 | 0.0000 | 2,070.3114 | 2,070.3114 | 0.0872 | 4.9900e-003 | 2,073.9795 |

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 | 0.5813 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 3.6975 | 3.6975 | 3.4200e-003 | 0.0000 | 3.7830 |
| Energy | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |
| Mobile | 0.3310 | 1.4470 | 4.4628 | 0.0176 | 1.4951 | 0.0120 | 1.5071 | 0.4000 | 0.0111 | 0.4112 | | 1,794.0784 | 1,794.0784 | 0.0784 | | 1,796.0372 |
| Total | 0.9276 | 1.6022 | 6.5832 | 0.0186 | 1.4951 | 0.0339 | 1.5291 | 0.4000 | 0.0331 | 0.4331 | 0.0000 | 1,964.4038 | 1,964.4038 | 0.0850 | 3.0500e-003 | 1,967.4384 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 2.02 | 4.93 | 0.68 | 2.78 | 0.00 | 16.53 | 0.44 | 0.00 | 16.88 | 1.53 | 0.00 | 5.12 | 5.12 | 2.52 | 38.88 | 5.14 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/1/2022 | 5 | 2 | |
| 3 | Grading | Grading | 2/2/2022 | 2/7/2022 | 5 | 4 | |
| 4 | Building Construction | Building Construction | 2/8/2022 | 11/14/2022 | 5 | 200 | |
| 5 | Paving | Paving | 11/15/2022 | 11/28/2022 | 5 | 10 | |
| 6 | Architectural Coating | Architectural Coating | 11/29/2022 | 12/12/2022 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.32

Residential Indoor: 37,058; Residential Outdoor: 12,353; Non-Residential Indoor: 7,784; Non-Residential Outdoor: 2,595; Striped Parking Area: 840 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 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 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 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

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 21.00 | 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 | 4 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 26.00 | 6.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2287 | 0.0000 | 0.2287 | 0.0346 | 0.0000 | 0.0346 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.6889 | 16.6217 | 13.9605 | 0.0241 | | 0.8379 | 0.8379 | | 0.7829 | 0.7829 | | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |
| Total | 1.6889 | 16.6217 | 13.9605 | 0.0241 | 0.2287 | 0.8379 | 1.0666 | 0.0346 | 0.7829 | 0.8175 | | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 7.2300e-003 | 0.2455 | 0.0556 | 7.9000e-004 | 0.0184 | 7.1000e-004 | 0.0191 | 5.0300e-003 | 6.8000e-004 | 5.7100e-003 | | 86.0743 | 86.0743 | 5.7100e-003 | | 86.2169 |
| 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 | 0.0515 | 0.0322 | 0.4529 | 1.3900e-003 | 0.1453 | 1.0400e-003 | 0.1464 | 0.0385 | 9.6000e-004 | 0.0395 | | 138.8041 | 138.8041 | 3.5000e-003 | | 138.8916 |
| Total | 0.0587 | 0.2776 | 0.5085 | 2.1800e-003 | 0.1637 | 1.7500e-003 | 0.1654 | 0.0436 | 1.6400e-003 | 0.0452 | | 224.8784 | 224.8784 | 9.2100e-003 | | 225.1085 |

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 | | | | | 0.1029 | 0.0000 | 0.1029 | 0.0156 | 0.0000 | 0.0156 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2811 | 1.2179 | 14.7184 | 0.0241 | | 0.0375 | 0.0375 | | 0.0375 | 0.0375 | 0.0000 | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |
| Total | 0.2811 | 1.2179 | 14.7184 | 0.0241 | 0.1029 | 0.0375 | 0.1404 | 0.0156 | 0.0375 | 0.0531 | 0.0000 | 2,323.4168 | 2,323.4168 | 0.5921 | | 2,338.2191 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 7.2300e-003 | 0.2455 | 0.0556 | 7.9000e-004 | 0.0184 | 7.1000e-004 | 0.0191 | 5.0300e-003 | 6.8000e-004 | 5.7100e-003 | | 86.0743 | 86.0743 | 5.7100e-003 | | 86.2169 |
| 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 | 0.0515 | 0.0322 | 0.4529 | 1.3900e-003 | 0.1453 | 1.0400e-003 | 0.1464 | 0.0385 | 9.6000e-004 | 0.0395 | | 138.8041 | 138.8041 | 3.5000e-003 | | 138.8916 |
| Total | 0.0587 | 0.2776 | 0.5085 | 2.1800e-003 | 0.1637 | 1.7500e-003 | 0.1654 | 0.0436 | 1.6400e-003 | 0.0452 | | 224.8784 | 224.8784 | 9.2100e-003 | | 225.1085 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.5908 | 0.0000 | 1.5908 | 0.1718 | 0.0000 | 0.1718 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3784 | 15.6673 | 10.0558 | 0.0245 | | 0.5952 | 0.5952 | | 0.5476 | 0.5476 | | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |
| Total | 1.3784 | 15.6673 | 10.0558 | 0.0245 | 1.5908 | 0.5952 | 2.1859 | 0.1718 | 0.5476 | 0.7193 | | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0317 | 0.0198 | 0.2787 | 8.6000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 85.4179 | 85.4179 | 2.1500e-003 | | 85.4717 |
| Total | 0.0317 | 0.0198 | 0.2787 | 8.6000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 85.4179 | 85.4179 | 2.1500e-003 | | 85.4717 |

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 | | | | | 0.7158 | 0.0000 | 0.7158 | 0.0773 | 0.0000 | 0.0773 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3008 | 1.3034 | 11.8595 | 0.0245 | | 0.0401 | 0.0401 | | 0.0401 | 0.0401 | 0.0000 | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |
| Total | 0.3008 | 1.3034 | 11.8595 | 0.0245 | 0.7158 | 0.0401 | 0.7559 | 0.0773 | 0.0401 | 0.1174 | 0.0000 | 2,375.1569 | 2,375.1569 | 0.7682 | | 2,394.3613 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0317 | 0.0198 | 0.2787 | 8.6000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 85.4179 | 85.4179 | 2.1500e-003 | | 85.4717 |
| Total | 0.0317 | 0.0198 | 0.2787 | 8.6000e-004 | 0.0894 | 6.4000e-004 | 0.0901 | 0.0237 | 5.9000e-004 | 0.0243 | | 85.4179 | 85.4179 | 2.1500e-003 | | 85.4717 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5403 | 16.9836 | 9.2202 | 0.0206 | | 0.7423 | 0.7423 | | 0.6829 | 0.6829 | | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |
| Total | 1.5403 | 16.9836 | 9.2202 | 0.0206 | 6.5523 | 0.7423 | 7.2946 | 3.3675 | 0.6829 | 4.0504 | | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0396 | 0.0247 | 0.3484 | 1.0700e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 106.7724 | 106.7724 | 2.6900e-003 | | 106.8397 |
| Total | 0.0396 | 0.0247 | 0.3484 | 1.0700e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 106.7724 | 106.7724 | 2.6900e-003 | | 106.8397 |

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 | | | | | 2.9486 | 0.0000 | 2.9486 | 1.5154 | 0.0000 | 1.5154 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2522 | 1.0927 | 10.9071 | 0.0206 | | 0.0336 | 0.0336 | | 0.0336 | 0.0336 | 0.0000 | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |
| Total | 0.2522 | 1.0927 | 10.9071 | 0.0206 | 2.9486 | 0.0336 | 2.9822 | 1.5154 | 0.0336 | 1.5490 | 0.0000 | 1,995.4825 | 1,995.4825 | 0.6454 | | 2,011.6169 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0396 | 0.0247 | 0.3484 | 1.0700e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 106.7724 | 106.7724 | 2.6900e-003 | | 106.8397 |
| Total | 0.0396 | 0.0247 | 0.3484 | 1.0700e-003 | 0.1118 | 8.0000e-004 | 0.1126 | 0.0296 | 7.4000e-004 | 0.0304 | | 106.7724 | 106.7724 | 2.6900e-003 | | 106.8397 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.8555 | 14.6040 | 14.3533 | 0.0250 | | 0.7022 | 0.7022 | | 0.6731 | 0.6731 | | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |
| Total | 1.8555 | 14.6040 | 14.3533 | 0.0250 | | 0.7022 | 0.7022 | | 0.6731 | 0.6731 | | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0157 | 0.5432 | 0.1283 | 1.5200e-003 | 0.0384 | 1.0000e-003 | 0.0394 | 0.0111 | 9.5000e-004 | 0.0120 | | 162.0355 | 162.0355 | 9.5200e-003 | | 162.2735 |
| Worker | 0.1030 | 0.0643 | 0.9057 | 2.7900e-003 | 0.2906 | 2.0800e-003 | 0.2927 | 0.0771 | 1.9100e-003 | 0.0790 | | 277.6082 | 277.6082 | 7.0000e-003 | | 277.7832 |
| Total | 0.1186 | 0.6075 | 1.0341 | 4.3100e-003 | 0.3290 | 3.0800e-003 | 0.3321 | 0.0881 | 2.8600e-003 | 0.0910 | | 439.6437 | 439.6437 | 0.0165 | | 440.0566 |

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 | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |
| Total | 0.3296 | 3.8705 | 14.9355 | 0.0250 | | 0.0352 | 0.0352 | | 0.0352 | 0.0352 | 0.0000 | 2,289.2813 | 2,289.2813 | 0.4417 | | 2,300.3230 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0157 | 0.5432 | 0.1283 | 1.5200e-003 | 0.0384 | 1.0000e-003 | 0.0394 | 0.0111 | 9.5000e-004 | 0.0120 | | 162.0355 | 162.0355 | 9.5200e-003 | | 162.2735 |
| Worker | 0.1030 | 0.0643 | 0.9057 | 2.7900e-003 | 0.2906 | 2.0800e-003 | 0.2927 | 0.0771 | 1.9100e-003 | 0.0790 | | 277.6082 | 277.6082 | 7.0000e-003 | | 277.7832 |
| Total | 0.1186 | 0.6075 | 1.0341 | 4.3100e-003 | 0.3290 | 3.0800e-003 | 0.3321 | 0.0881 | 2.8600e-003 | 0.0910 | | 439.6437 | 439.6437 | 0.0165 | | 440.0566 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9412 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0838 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0250 | 9.3322 | 11.6970 | 0.0179 | | 0.4879 | 0.4879 | | 0.4500 | 0.4500 | | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |

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 | 0.2104 | 0.9117 | 12.9737 | 0.0179 | | 0.0281 | 0.0281 | | 0.0281 | 0.0281 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |
| Paving | 0.0838 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.2942 | 0.9117 | 12.9737 | 0.0179 | | 0.0281 | 0.0281 | | 0.0281 | 0.0281 | 0.0000 | 1,709.6892 | 1,709.6892 | 0.5419 | | 1,723.2356 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 16.6510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 16.8556 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0198 | 0.0124 | 0.1742 | 5.4000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 53.3862 | 53.3862 | 1.3500e-003 | | 53.4198 |
| Total | 0.0198 | 0.0124 | 0.1742 | 5.4000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 53.3862 | 53.3862 | 1.3500e-003 | | 53.4198 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 16.6510 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 16.6807 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0198 | 0.0124 | 0.1742 | 5.4000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 53.3862 | 53.3862 | 1.3500e-003 | | 53.4198 |
| Total | 0.0198 | 0.0124 | 0.1742 | 5.4000e-004 | 0.0559 | 4.0000e-004 | 0.0563 | 0.0148 | 3.7000e-004 | 0.0152 | | 53.3862 | 53.3862 | 1.3500e-003 | | 53.4198 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.3310 | 1.4470 | 4.4628 | 0.0176 | 1.4951 | 0.0120 | 1.5071 | 0.4000 | 0.0111 | 0.4112 | | 1,794.0784 | 1,794.0784 | 0.0784 | | 1,796.0372 |
| Unmitigated | 0.3310 | 1.4470 | 4.4628 | 0.0176 | 1.4951 | 0.0120 | 1.5071 | 0.4000 | 0.0111 | 0.4112 | | 1,794.0784 | 1,794.0784 | 0.0784 | | 1,796.0372 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse | 145.25 | 141.75 | 121.00 | 482,795 | 482,795 |
| General Office Building | 64.19 | 14.32 | 6.11 | 157,116 | 157,116 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 209.44 | 156.07 | 127.11 | 639,911 | 639,911 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Condo/Townhouse | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Parking Lot | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |
| NaturalGas Unmitigated | 0.0153 | 0.1315 | 0.0627 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0500e-003 | 167.6182 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse | 1250.38 | 0.0135 | 0.1152 | 0.0490 | 7.4000e-004 | | 9.3200e-003 | 9.3200e-003 | | 9.3200e-003 | 9.3200e-003 | | 147.1031 | 147.1031 | 2.8200e-003 | 2.7000e-003 | 147.9773 |
| General Office Building | 165.961 | 1.7900e-003 | 0.0163 | 0.0137 | 1.0000e-004 | | 1.2400e-003 | 1.2400e-003 | | 1.2400e-003 | 1.2400e-003 | | 19.5248 | 19.5248 | 3.7000e-004 | 3.6000e-004 | 19.6409 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0153 | 0.1315 | 0.0627 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0600e-003 | 167.6182 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse | 1.25038 | 0.0135 | 0.1152 | 0.0490 | 7.4000e-004 | | 9.3200e-003 | 9.3200e-003 | | 9.3200e-003 | 9.3200e-003 | | 147.1031 | 147.1031 | 2.8200e-003 | 2.7000e-003 | 147.9773 |
| General Office Building | 0.165961 | 1.7900e-003 | 0.0163 | 0.0137 | 1.0000e-004 | | 1.2400e-003 | 1.2400e-003 | | 1.2400e-003 | 1.2400e-003 | | 19.5248 | 19.5248 | 3.7000e-004 | 3.6000e-004 | 19.6409 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0153 | 0.1315 | 0.0627 | 8.4000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | | 166.6280 | 166.6280 | 3.1900e-003 | 3.0600e-003 | 167.6182 |

6.0 Area Detail

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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 | 0.5813 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 3.6975 | 3.6975 | 3.4200e-003 | 0.0000 | 3.7830 |
| Unmitigated | 0.6004 | 0.1068 | 2.1025 | 6.4000e-004 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | 0.0000 | 109.6051 | 109.6051 | 5.6200e-003 | 1.9400e-003 | 110.3242 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

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 | 0.0456 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.4825 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 9.7100e-003 | 0.0829 | 0.0353 | 5.3000e-004 | | 6.7100e-003 | 6.7100e-003 | | 6.7100e-003 | 6.7100e-003 | 0.0000 | 105.8824 | 105.8824 | 2.0300e-003 | 1.9400e-003 | 106.5116 |
| Landscaping | 0.0625 | 0.0238 | 2.0672 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | | 3.7227 | 3.7227 | 3.5900e-003 | | 3.8126 |
| Total | 0.6004 | 0.1068 | 2.1025 | 6.4000e-004 | | 0.0181 | 0.0181 | | 0.0181 | 0.0181 | 0.0000 | 109.6051 | 109.6051 | 5.6200e-003 | 1.9400e-003 | 110.3242 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.0390 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.4825 | | | | | 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 | 0.0598 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | | 3.6975 | 3.6975 | 3.4200e-003 | | 3.7830 |
| Total | 0.5813 | 0.0237 | 2.0577 | 1.1000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 3.6975 | 3.6975 | 3.4200e-003 | 0.0000 | 3.7830 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Summer

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

**Santa Monica Housing Element - Future Project - Average Development Scenario
South Coast AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-------|---------------|-------------|--------------------|------------|
| General Office Building | 5.82 | 1000sqft | 0.13 | 5,819.00 | 0 |
| Parking Lot | 35.00 | Space | 0.32 | 14,000.00 | 0 |
| Condo/Townhouse | 25.00 | Dwelling Unit | 1.56 | 18,300.00 | 72 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

Project Characteristics - File Name Future Project Average

25 DUs
 14 DEvelopments/year
 Total # DEvelopments over 8 years - 112
 Land Use - 25 DU at 732 sq ft = 18,300
 Commercial = 5,819 ft²

Construction Phase -

Demolition - Demolition 185.9 ft²/DU=4,646

Woodstoves - No wood stoves
 Gas only fireplace, assume 20%

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
 No fireplaces
 Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l

Energy Mitigation - 100% solar

Water Mitigation - Green building code requires water effcent landscape and irrigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|---|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 2,910.00 | 2,595.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 8,729.00 | 7,784.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 2910 | 2595 |
| tblAreaCoating | Area_Nonresidential_Interior | 8729 | 7784 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialExteriorValue | 100 | 50 |
| tblAreaMitigation | UseLowVOCPaintNonresidentialInteriorValue | 100 | 50 |
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

| | | | |
|-------------------------|--------------------------|--------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 3.00 | 2.00 |
| tblConstructionPhase | NumDays | 6.00 | 4.00 |
| tblConstructionPhase | NumDays | 220.00 | 200.00 |
| tblFireplaces | NumberGas | 21.25 | 5.00 |
| tblFireplaces | NumberNoFireplace | 2.50 | 20.00 |
| tblFireplaces | NumberWood | 1.25 | 0.00 |
| tblLandUse | LandUseSquareFeet | 5,820.00 | 5,819.00 |
| tblLandUse | LandUseSquareFeet | 25,000.00 | 18,300.00 |
| tblSolidWaste | SolidWasteGenerationRate | 5.41 | 4.83 |
| tblWater | IndoorWaterUseRate | 1,034,410.41 | 922,438.15 |
| tblWater | OutdoorWaterUseRate | 633,993.48 | 565,365.32 |
| tblWoodstoves | NumberCatalytic | 1.25 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 1.25 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 1-3-2022 | 4-2-2022 | 0.5692 | 0.1178 |
| 2 | 4-3-2022 | 7-2-2022 | 0.5585 | 0.1601 |
| 3 | 7-3-2022 | 9-30-2022 | 0.5524 | 0.1583 |
| | | Highest | 0.5692 | 0.1601 |

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 | 0.1043 | 4.0100e-003 | 0.2588 | 2.0000e-005 | | 1.5100e-003 | 1.5100e-003 | | 1.5100e-003 | 1.5100e-003 | 0.0000 | 1.6228 | 1.6228 | 4.3000e-004 | 2.0000e-005 | 1.6402 |
| Energy | 2.7900e-003 | 0.0240 | 0.0114 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 92.9228 | 92.9228 | 3.2300e-003 | 1.0600e-003 | 93.3205 |
| Mobile | 0.0508 | 0.2482 | 0.7004 | 2.8000e-003 | 0.2432 | 1.9800e-003 | 0.2451 | 0.0652 | 1.8400e-003 | 0.0670 | 0.0000 | 259.0909 | 259.0909 | 0.0117 | 0.0000 | 259.3827 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.3148 | 0.0000 | 3.3148 | 0.1959 | 0.0000 | 8.2124 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8094 | 16.2211 | 17.0305 | 0.0838 | 2.1000e-003 | 19.7518 |
| Total | 0.1579 | 0.2762 | 0.9707 | 2.9700e-003 | 0.2432 | 5.4200e-003 | 0.2486 | 0.0652 | 5.2800e-003 | 0.0704 | 4.1243 | 369.8576 | 373.9818 | 0.2950 | 3.1800e-003 | 382.3075 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 0.1027 | 2.9700e-003 | 0.2572 | 1.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 0.4193 | 0.4193 | 3.9000e-004 | 0.0000 | 0.4290 |
| Energy | 2.7900e-003 | 0.0240 | 0.0114 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.5871 | 27.5871 | 5.3000e-004 | 5.1000e-004 | 27.7511 |
| Mobile | 0.0508 | 0.2482 | 0.7004 | 2.8000e-003 | 0.2432 | 1.9800e-003 | 0.2451 | 0.0652 | 1.8400e-003 | 0.0670 | 0.0000 | 259.0909 | 259.0909 | 0.0117 | 0.0000 | 259.3827 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.3148 | 0.0000 | 3.3148 | 0.1959 | 0.0000 | 8.2124 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.6475 | 13.7603 | 14.4079 | 0.0671 | 1.6900e-003 | 16.5877 |
| Total | 0.1562 | 0.2751 | 0.9691 | 2.9600e-003 | 0.2432 | 5.3400e-003 | 0.2485 | 0.0652 | 5.2000e-003 | 0.0704 | 3.9624 | 300.8576 | 304.8200 | 0.2756 | 2.2000e-003 | 312.3628 |

| | ROG | NOx | CO | SO2 | 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 | 1.06 | 0.38 | 0.17 | 0.34 | 0.00 | 1.48 | 0.03 | 0.00 | 1.52 | 0.11 | 3.93 | 18.66 | 18.49 | 6.60 | 30.82 | 18.30 |

3.0 Construction Detail

Construction Phase

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/1/2022 | 5 | 2 | |
| 3 | Grading | Grading | 2/2/2022 | 2/7/2022 | 5 | 4 | |
| 4 | Building Construction | Building Construction | 2/8/2022 | 11/14/2022 | 5 | 200 | |
| 5 | Paving | Paving | 11/15/2022 | 11/28/2022 | 5 | 10 | |
| 6 | Architectural Coating | Architectural Coating | 11/29/2022 | 12/12/2022 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 3

Acres of Grading (Grading Phase): 2

Acres of Paving: 0.32

Residential Indoor: 37,058; Residential Outdoor: 12,353; Non-Residential Indoor: 7,784; Non-Residential Outdoor: 2,595; Striped Parking Area: 840 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 2 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 7.00 | 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 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 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

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, 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 | 21.00 | 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 | 4 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 26.00 | 6.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.2900e-003 | 0.0000 | 2.2900e-003 | 3.5000e-004 | 0.0000 | 3.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0169 | 0.1662 | 0.1396 | 2.4000e-004 | | 8.3800e-003 | 8.3800e-003 | | 7.8300e-003 | 7.8300e-003 | 0.0000 | 21.0777 | 21.0777 | 5.3700e-003 | 0.0000 | 21.2120 |
| Total | 0.0169 | 0.1662 | 0.1396 | 2.4000e-004 | 2.2900e-003 | 8.3800e-003 | 0.0107 | 3.5000e-004 | 7.8300e-003 | 8.1800e-003 | 0.0000 | 21.0777 | 21.0777 | 5.3700e-003 | 0.0000 | 21.2120 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.0000e-005 | 2.5300e-003 | 5.7000e-004 | 1.0000e-005 | 1.8000e-004 | 1.0000e-005 | 1.9000e-004 | 5.0000e-005 | 1.0000e-005 | 6.0000e-005 | 0.0000 | 0.7747 | 0.7747 | 5.0000e-005 | 0.0000 | 0.7761 |
| 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 | 3.6000e-004 | 4.1800e-003 | 1.0000e-005 | 1.4300e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1978 | 1.1978 | 3.0000e-005 | 0.0000 | 1.1986 |
| Total | 5.8000e-004 | 2.8900e-003 | 4.7500e-003 | 2.0000e-005 | 1.6100e-003 | 2.0000e-005 | 1.6300e-003 | 4.3000e-004 | 2.0000e-005 | 4.5000e-004 | 0.0000 | 1.9726 | 1.9726 | 8.0000e-005 | 0.0000 | 1.9746 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.0300e-003 | 0.0000 | 1.0300e-003 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.8100e-003 | 0.0122 | 0.1472 | 2.4000e-004 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 21.0777 | 21.0777 | 5.3700e-003 | 0.0000 | 21.2119 |
| Total | 2.8100e-003 | 0.0122 | 0.1472 | 2.4000e-004 | 1.0300e-003 | 3.7000e-004 | 1.4000e-003 | 1.6000e-004 | 3.7000e-004 | 5.3000e-004 | 0.0000 | 21.0777 | 21.0777 | 5.3700e-003 | 0.0000 | 21.2119 |

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3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 7.0000e-005 | 2.5300e-003 | 5.7000e-004 | 1.0000e-005 | 1.8000e-004 | 1.0000e-005 | 1.9000e-004 | 5.0000e-005 | 1.0000e-005 | 6.0000e-005 | 0.0000 | 0.7747 | 0.7747 | 5.0000e-005 | 0.0000 | 0.7761 |
| 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 | 3.6000e-004 | 4.1800e-003 | 1.0000e-005 | 1.4300e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.1978 | 1.1978 | 3.0000e-005 | 0.0000 | 1.1986 |
| Total | 5.8000e-004 | 2.8900e-003 | 4.7500e-003 | 2.0000e-005 | 1.6100e-003 | 2.0000e-005 | 1.6300e-003 | 4.3000e-004 | 2.0000e-005 | 4.5000e-004 | 0.0000 | 1.9726 | 1.9726 | 8.0000e-005 | 0.0000 | 1.9746 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.5900e-003 | 0.0000 | 1.5900e-003 | 1.7000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.3800e-003 | 0.0157 | 0.0101 | 2.0000e-005 | | 6.0000e-004 | 6.0000e-004 | | 5.5000e-004 | 5.5000e-004 | 0.0000 | 2.1547 | 2.1547 | 7.0000e-004 | 0.0000 | 2.1721 |
| Total | 1.3800e-003 | 0.0157 | 0.0101 | 2.0000e-005 | 1.5900e-003 | 6.0000e-004 | 2.1900e-003 | 1.7000e-004 | 5.5000e-004 | 7.2000e-004 | 0.0000 | 2.1547 | 2.1547 | 7.0000e-004 | 0.0000 | 2.1721 |

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 9.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.0737 | 0.0737 | 0.0000 | 0.0000 | 0.0738 |
| Total | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 9.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.0737 | 0.0737 | 0.0000 | 0.0000 | 0.0738 |

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 | | | | | 7.2000e-004 | 0.0000 | 7.2000e-004 | 8.0000e-005 | 0.0000 | 8.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.0000e-004 | 1.3000e-003 | 0.0119 | 2.0000e-005 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 2.1547 | 2.1547 | 7.0000e-004 | 0.0000 | 2.1721 |
| Total | 3.0000e-004 | 1.3000e-003 | 0.0119 | 2.0000e-005 | 7.2000e-004 | 4.0000e-005 | 7.6000e-004 | 8.0000e-005 | 4.0000e-005 | 1.2000e-004 | 0.0000 | 2.1547 | 2.1547 | 7.0000e-004 | 0.0000 | 2.1721 |

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 9.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.0737 | 0.0737 | 0.0000 | 0.0000 | 0.0738 |
| Total | 3.0000e-005 | 2.0000e-005 | 2.6000e-004 | 0.0000 | 9.0000e-005 | 0.0000 | 9.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.0737 | 0.0737 | 0.0000 | 0.0000 | 0.0738 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0131 | 0.0000 | 0.0131 | 6.7300e-003 | 0.0000 | 6.7300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.0800e-003 | 0.0340 | 0.0184 | 4.0000e-005 | | 1.4800e-003 | 1.4800e-003 | | 1.3700e-003 | 1.3700e-003 | 0.0000 | 3.6205 | 3.6205 | 1.1700e-003 | 0.0000 | 3.6498 |
| Total | 3.0800e-003 | 0.0340 | 0.0184 | 4.0000e-005 | 0.0131 | 1.4800e-003 | 0.0146 | 6.7300e-003 | 1.3700e-003 | 8.1000e-003 | 0.0000 | 3.6205 | 3.6205 | 1.1700e-003 | 0.0000 | 3.6498 |

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3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.0000e-005 | 6.0000e-005 | 6.4000e-004 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1843 | 0.1843 | 0.0000 | 0.0000 | 0.1844 |
| Total | 8.0000e-005 | 6.0000e-005 | 6.4000e-004 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1843 | 0.1843 | 0.0000 | 0.0000 | 0.1844 |

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 | | | | | 5.9000e-003 | 0.0000 | 5.9000e-003 | 3.0300e-003 | 0.0000 | 3.0300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.0000e-004 | 2.1900e-003 | 0.0218 | 4.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 3.6205 | 3.6205 | 1.1700e-003 | 0.0000 | 3.6498 |
| Total | 5.0000e-004 | 2.1900e-003 | 0.0218 | 4.0000e-005 | 5.9000e-003 | 7.0000e-005 | 5.9700e-003 | 3.0300e-003 | 7.0000e-005 | 3.1000e-003 | 0.0000 | 3.6205 | 3.6205 | 1.1700e-003 | 0.0000 | 3.6498 |

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3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.0000e-005 | 6.0000e-005 | 6.4000e-004 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1843 | 0.1843 | 0.0000 | 0.0000 | 0.1844 |
| Total | 8.0000e-005 | 6.0000e-005 | 6.4000e-004 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1843 | 0.1843 | 0.0000 | 0.0000 | 0.1844 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1856 | 1.4604 | 1.4353 | 2.5000e-003 | | 0.0702 | 0.0702 | | 0.0673 | 0.0673 | 0.0000 | 207.6801 | 207.6801 | 0.0401 | 0.0000 | 208.6818 |
| Total | 0.1856 | 1.4604 | 1.4353 | 2.5000e-003 | | 0.0702 | 0.0702 | | 0.0673 | 0.0673 | 0.0000 | 207.6801 | 207.6801 | 0.0401 | 0.0000 | 208.6818 |

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.6000e-003 | 0.0551 | 0.0136 | 1.5000e-004 | 3.7800e-003 | 1.0000e-004 | 3.8800e-003 | 1.0900e-003 | 1.0000e-004 | 1.1900e-003 | 0.0000 | 14.5198 | 14.5198 | 8.9000e-004 | 0.0000 | 14.5421 |
| Worker | 0.0102 | 7.2300e-003 | 0.0837 | 2.6000e-004 | 0.0285 | 2.1000e-004 | 0.0287 | 7.5800e-003 | 1.9000e-004 | 7.7700e-003 | 0.0000 | 23.9563 | 23.9563 | 6.0000e-004 | 0.0000 | 23.9714 |
| Total | 0.0118 | 0.0623 | 0.0973 | 4.1000e-004 | 0.0323 | 3.1000e-004 | 0.0326 | 8.6700e-003 | 2.9000e-004 | 8.9600e-003 | 0.0000 | 38.4761 | 38.4761 | 1.4900e-003 | 0.0000 | 38.5135 |

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 | 0.0330 | 0.3871 | 1.4936 | 2.5000e-003 | | 3.5200e-003 | 3.5200e-003 | | 3.5200e-003 | 3.5200e-003 | 0.0000 | 207.6799 | 207.6799 | 0.0401 | 0.0000 | 208.6815 |
| Total | 0.0330 | 0.3871 | 1.4936 | 2.5000e-003 | | 3.5200e-003 | 3.5200e-003 | | 3.5200e-003 | 3.5200e-003 | 0.0000 | 207.6799 | 207.6799 | 0.0401 | 0.0000 | 208.6815 |

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.6000e-003 | 0.0551 | 0.0136 | 1.5000e-004 | 3.7800e-003 | 1.0000e-004 | 3.8800e-003 | 1.0900e-003 | 1.0000e-004 | 1.1900e-003 | 0.0000 | 14.5198 | 14.5198 | 8.9000e-004 | 0.0000 | 14.5421 |
| Worker | 0.0102 | 7.2300e-003 | 0.0837 | 2.6000e-004 | 0.0285 | 2.1000e-004 | 0.0287 | 7.5800e-003 | 1.9000e-004 | 7.7700e-003 | 0.0000 | 23.9563 | 23.9563 | 6.0000e-004 | 0.0000 | 23.9714 |
| Total | 0.0118 | 0.0623 | 0.0973 | 4.1000e-004 | 0.0323 | 3.1000e-004 | 0.0326 | 8.6700e-003 | 2.9000e-004 | 8.9600e-003 | 0.0000 | 38.4761 | 38.4761 | 1.4900e-003 | 0.0000 | 38.5135 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.7100e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 4.2000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.1300e-003 | 0.0467 | 0.0585 | 9.0000e-005 | | 2.4400e-003 | 2.4400e-003 | | 2.2500e-003 | 2.2500e-003 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |

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3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |
| Total | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |

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 | 1.0500e-003 | 4.5600e-003 | 0.0649 | 9.0000e-005 | | 1.4000e-004 | 1.4000e-004 | | 1.4000e-004 | 1.4000e-004 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |
| Paving | 4.2000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 1.4700e-003 | 4.5600e-003 | 0.0649 | 9.0000e-005 | | 1.4000e-004 | 1.4000e-004 | | 1.4000e-004 | 1.4000e-004 | 0.0000 | 7.7550 | 7.7550 | 2.4600e-003 | 0.0000 | 7.8165 |

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3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |
| Total | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0833 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| Total | 0.0843 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-004 | 7.0000e-005 | 8.0000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 2.8000e-004 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.2304 | 0.2304 | 1.0000e-005 | 0.0000 | 0.2305 |
| Total | 1.0000e-004 | 7.0000e-005 | 8.0000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 2.8000e-004 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.2304 | 0.2304 | 1.0000e-005 | 0.0000 | 0.2305 |

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 | 0.0833 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.5000e-004 | 6.4000e-004 | 9.1600e-003 | 1.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| Total | 0.0834 | 6.4000e-004 | 9.1600e-003 | 1.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-004 | 7.0000e-005 | 8.0000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 2.8000e-004 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.2304 | 0.2304 | 1.0000e-005 | 0.0000 | 0.2305 |
| Total | 1.0000e-004 | 7.0000e-005 | 8.0000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 2.8000e-004 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 0.0000 | 0.2304 | 0.2304 | 1.0000e-005 | 0.0000 | 0.2305 |

4.0 Operational Detail - Mobile

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 | 0.0508 | 0.2482 | 0.7004 | 2.8000e-003 | 0.2432 | 1.9800e-003 | 0.2451 | 0.0652 | 1.8400e-003 | 0.0670 | 0.0000 | 259.0909 | 259.0909 | 0.0117 | 0.0000 | 259.3827 |
| Unmitigated | 0.0508 | 0.2482 | 0.7004 | 2.8000e-003 | 0.2432 | 1.9800e-003 | 0.2451 | 0.0652 | 1.8400e-003 | 0.0670 | 0.0000 | 259.0909 | 259.0909 | 0.0117 | 0.0000 | 259.3827 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse | 145.25 | 141.75 | 121.00 | 482,795 | 482,795 |
| General Office Building | 64.19 | 14.32 | 6.11 | 157,116 | 157,116 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 209.44 | 156.07 | 127.11 | 639,911 | 639,911 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

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| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Condo/Townhouse | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Parking Lot | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 65.3357 | 65.3357 | 2.7000e-003 | 5.6000e-004 | 65.5694 |
| NaturalGas Mitigated | 2.7900e-003 | 0.0240 | 0.0114 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.5871 | 27.5871 | 5.3000e-004 | 5.1000e-004 | 27.7511 |
| NaturalGas Unmitigated | 2.7900e-003 | 0.0240 | 0.0114 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.5871 | 27.5871 | 5.3000e-004 | 5.1000e-004 | 27.7511 |

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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 | | | | | |
| Condo/Townhouse | 456388 | 2.4600e-003 | 0.0210 | 8.9500e-003 | 1.3000e-004 | | 1.7000e-003 | 1.7000e-003 | | 1.7000e-003 | 1.7000e-003 | 0.0000 | 24.3546 | 24.3546 | 4.7000e-004 | 4.5000e-004 | 24.4993 |
| General Office Building | 60575.8 | 3.3000e-004 | 2.9700e-003 | 2.4900e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | 0.0000 | 3.2326 | 3.2326 | 6.0000e-005 | 6.0000e-005 | 3.2518 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.7900e-003 | 0.0240 | 0.0114 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.5871 | 27.5871 | 5.3000e-004 | 5.1000e-004 | 27.7511 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Condo/Townhouse | 456388 | 2.4600e-003 | 0.0210 | 8.9500e-003 | 1.3000e-004 | | 1.7000e-003 | 1.7000e-003 | | 1.7000e-003 | 1.7000e-003 | 0.0000 | 24.3546 | 24.3546 | 4.7000e-004 | 4.5000e-004 | 24.4993 |
| General Office Building | 60575.8 | 3.3000e-004 | 2.9700e-003 | 2.4900e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | 0.0000 | 3.2326 | 3.2326 | 6.0000e-005 | 6.0000e-005 | 3.2518 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.7900e-003 | 0.0240 | 0.0114 | 1.5000e-004 | | 1.9300e-003 | 1.9300e-003 | | 1.9300e-003 | 1.9300e-003 | 0.0000 | 27.5871 | 27.5871 | 5.3000e-004 | 5.1000e-004 | 27.7511 |

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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 | | | |
| Condo/Townhouse | 124569 | 39.6902 | 1.6400e-003 | 3.4000e-004 | 39.8322 |
| General Office Building | 75588.8 | 24.0842 | 9.9000e-004 | 2.1000e-004 | 24.1704 |
| Parking Lot | 4900 | 1.5612 | 6.0000e-005 | 1.0000e-005 | 1.5668 |
| Total | | 65.3356 | 2.6900e-003 | 5.6000e-004 | 65.5694 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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 | 0.1027 | 2.9700e-003 | 0.2572 | 1.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 0.4193 | 0.4193 | 3.9000e-004 | 0.0000 | 0.4290 |
| Unmitigated | 0.1043 | 4.0100e-003 | 0.2588 | 2.0000e-005 | | 1.5100e-003 | 1.5100e-003 | | 1.5100e-003 | 1.5100e-003 | 0.0000 | 1.6228 | 1.6228 | 4.3000e-004 | 2.0000e-005 | 1.6402 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

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 | 8.3300e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0881 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 1.2000e-004 | 1.0400e-003 | 4.4000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.2007 | 1.2007 | 2.0000e-005 | 2.0000e-005 | 1.2078 |
| Landscaping | 7.8200e-003 | 2.9800e-003 | 0.2584 | 1.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 0.4222 | 0.4222 | 4.1000e-004 | 0.0000 | 0.4323 |
| Total | 0.1043 | 4.0200e-003 | 0.2588 | 2.0000e-005 | | 1.5100e-003 | 1.5100e-003 | | 1.5100e-003 | 1.5100e-003 | 0.0000 | 1.6228 | 1.6228 | 4.3000e-004 | 2.0000e-005 | 1.6402 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 7.1200e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.0881 | | | | | 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 | 7.4700e-003 | 2.9700e-003 | 0.2572 | 1.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 0.4193 | 0.4193 | 3.9000e-004 | 0.0000 | 0.4290 |
| Total | 0.1027 | 2.9700e-003 | 0.2572 | 1.0000e-005 | | 1.4300e-003 | 1.4300e-003 | | 1.4300e-003 | 1.4300e-003 | 0.0000 | 0.4193 | 0.4193 | 3.9000e-004 | 0.0000 | 0.4290 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 14.4079 | 0.0671 | 1.6900e-003 | 16.5877 |
| Unmitigated | 17.0305 | 0.0838 | 2.1000e-003 | 19.7518 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse | 1.62885 / 1.02688 | 10.9095 | 0.0535 | 1.3400e-003 | 12.6471 |
| General Office Building | 0.922438 / 0.565365 | 6.1210 | 0.0303 | 7.6000e-004 | 7.1048 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 17.0305 | 0.0838 | 2.1000e-003 | 19.7518 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse | 1.30308 / 0.964244 | 9.2329 | 0.0428 | 1.0800e-003 | 10.6248 |
| General Office Building | 0.737951 / 0.530878 | 5.1750 | 0.0243 | 6.1000e-004 | 5.9630 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 14.4079 | 0.0671 | 1.6900e-003 | 16.5877 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|--------|
| | MT/yr | | | |
| Mitigated | 3.3148 | 0.1959 | 0.0000 | 8.2124 |
| Unmitigated | 3.3148 | 0.1959 | 0.0000 | 8.2124 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse | 11.5 | 2.3344 | 0.1380 | 0.0000 | 5.7834 |
| General Office Building | 4.83 | 0.9805 | 0.0579 | 0.0000 | 2.4290 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.3149 | 0.1959 | 0.0000 | 8.2124 |

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse | 11.5 | 2.3344 | 0.1380 | 0.0000 | 5.7834 |
| General Office Building | 4.83 | 0.9805 | 0.0579 | 0.0000 | 2.4290 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.3149 | 0.1959 | 0.0000 | 8.2124 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

Santa Monica Housing Element - Future Project - Average Development Scenario - South Coast AQMD Air District, Annual

11.0 Vegetation

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

Santa Monica Housing Element - Future Project - Maximum Scenario
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 91.95 | 1000sqft | 2.11 | 91,947.00 | 0 |
| Parking Lot | 542.00 | Space | 4.88 | 216,800.00 | 0 |
| Apartments High Rise | 395.00 | Dwelling Unit | 6.37 | 289,140.00 | 1130 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

Project Characteristics - File Name Future Project Max

395 DUs
 3 Developments/year
 Total Developments over 8 yrs - 24
 Land Use - 395 DU at 732 sq ft = 289,140

Construction Phase -

Demolition -

Woodstoves - No wood stoves
 Assume 20% gas fireplaces

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.

No fireplaces

Coatings per SCAQMD Rule 1113 for building envelope coatings of 50g/l, default coatings 50g/l, and traffic paint 100 g/l

Energy Mitigation - 100% solar

Water Mitigation - Green building code requires water efficient landscape and irrigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

| | | | |
|-------------------------|----------------------------|------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblFireplaces | NumberGas | 335.75 | 79.00 |
| tblFireplaces | NumberNoFireplace | 39.50 | 316.00 |
| tblFireplaces | NumberWood | 19.75 | 0.00 |
| tblLandUse | LandUseSquareFeet | 91,950.00 | 91,947.00 |
| tblLandUse | LandUseSquareFeet | 395,000.00 | 289,140.00 |
| tblTripsAndVMT | HaulingTripNumber | 334.00 | 371.00 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

| | | | |
|---------------|--------------------|-------|------|
| tblWoodstoves | NumberCatalytic | 19.75 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.75 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 9.5094 | 1.6868 | 33.2176 | 0.0101 | | 0.2866 | 0.2866 | | 0.2866 | 0.2866 | 0.0000 | 1,731.758 1 | 1,731.758 1 | 0.0889 | 0.0307 | 1,743.119 3 |
| Energy | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.985 4 | 1,481.985 4 | 0.0284 | 0.0272 | 1,490.792 1 |
| Mobile | 4.4581 | 20.9813 | 59.0973 | 0.2369 | 21.2404 | 0.1709 | 21.4113 | 5.6829 | 0.1589 | 5.8418 | | 24,150.11 01 | 24,150.11 01 | 1.1106 | | 24,177.87 44 |
| Total | 14.1033 | 23.8444 | 92.9221 | 0.2544 | 21.2404 | 0.5513 | 21.7918 | 5.6829 | 0.5394 | 6.2223 | 0.0000 | 27,363.85 35 | 27,363.85 35 | 1.2278 | 0.0578 | 27,411.78 58 |

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 | 9.3121 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | 0.0000 | 58.4178 | 58.4178 | 0.0541 | 0.0000 | 59.7693 |
| Energy | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.985 4 | 1,481.985 4 | 0.0284 | 0.0272 | 1,490.792 1 |
| Mobile | 4.4487 | 20.9277 | 58.8563 | 0.2357 | 21.1342 | 0.1701 | 21.3043 | 5.6545 | 0.1582 | 5.8127 | | 24,036.48 70 | 24,036.48 70 | 1.1061 | | 24,064.13 92 |
| Total | 13.8966 | 22.4791 | 91.9741 | 0.2449 | 21.1342 | 0.4443 | 21.5786 | 5.6545 | 0.4324 | 6.0869 | 0.0000 | 25,576.89 02 | 25,576.89 02 | 1.1886 | 0.0272 | 25,614.70 06 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 1.47 | 5.73 | 1.02 | 3.74 | 0.50 | 19.41 | 0.98 | 0.50 | 19.83 | 2.18 | 0.00 | 6.53 | 6.53 | 3.20 | 53.03 | 6.56 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 5/12/2021 | 6/8/2021 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 6/9/2021 | 6/22/2021 | 5 | 10 | |
| 3 | Grading | Grading | 6/23/2021 | 8/3/2021 | 5 | 30 | |
| 4 | Building Construction | Building Construction | 8/4/2021 | 9/27/2022 | 5 | 300 | |
| 5 | Paving | Paving | 9/28/2022 | 10/25/2022 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 10/26/2022 | 11/22/2022 | 5 | 20 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 4.88

Residential Indoor: 585,509; Residential Outdoor: 195,170; Non-Residential Indoor: 137,921; Non-Residential Outdoor: 45,974; Striped Parking Area: 13,008 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 371.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 405.00 | 93.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 81.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.6132 | 0.0000 | 3.6132 | 0.5471 | 0.0000 | 0.5471 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1651 | 31.4407 | 21.5650 | 0.0388 | | 1.5513 | 1.5513 | | 1.4411 | 1.4411 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 3.1651 | 31.4407 | 21.5650 | 0.0388 | 3.6132 | 1.5513 | 5.1646 | 0.5471 | 1.4411 | 1.9882 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1384 | 4.7487 | 1.0664 | 0.0140 | 0.3241 | 0.0148 | 0.3389 | 0.0888 | 0.0141 | 0.1030 | | 1,510.3323 | 1,510.3323 | 0.1070 | | 1,513.0072 |
| 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 | 0.0692 | 0.0450 | 0.5078 | 1.5600e-003 | 0.1677 | 1.2300e-003 | 0.1689 | 0.0445 | 1.1400e-003 | 0.0456 | | 155.3502 | 155.3502 | 4.1600e-003 | | 155.4543 |
| Total | 0.2076 | 4.7937 | 1.5742 | 0.0155 | 0.4918 | 0.0160 | 0.5078 | 0.1333 | 0.0153 | 0.1486 | | 1,665.6825 | 1,665.6825 | 0.1112 | | 1,668.4615 |

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 | | | | | 1.6260 | 0.0000 | 1.6260 | 0.2462 | 0.0000 | 0.2462 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 1.6260 | 0.0616 | 1.6876 | 0.2462 | 0.0616 | 0.3078 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1384 | 4.7487 | 1.0664 | 0.0140 | 0.3241 | 0.0148 | 0.3389 | 0.0888 | 0.0141 | 0.1030 | | 1,510.3323 | 1,510.3323 | 0.1070 | | 1,513.0072 |
| 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 | 0.0692 | 0.0450 | 0.5078 | 1.5600e-003 | 0.1677 | 1.2300e-003 | 0.1689 | 0.0445 | 1.1400e-003 | 0.0456 | | 155.3502 | 155.3502 | 4.1600e-003 | | 155.4543 |
| Total | 0.2076 | 4.7937 | 1.5742 | 0.0155 | 0.4918 | 0.0160 | 0.5078 | 0.1333 | 0.0153 | 0.1486 | | 1,665.6825 | 1,665.6825 | 0.1112 | | 1,668.4615 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 3.8882 | 40.4971 | 21.1543 | 0.0380 | 18.0663 | 2.0445 | 20.1107 | 9.9307 | 1.8809 | 11.8116 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0830 | 0.0539 | 0.6094 | 1.8700e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 186.4202 | 186.4202 | 5.0000e-003 | | 186.5451 |
| Total | 0.0830 | 0.0539 | 0.6094 | 1.8700e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 186.4202 | 186.4202 | 5.0000e-003 | | 186.5451 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0830 | 0.0539 | 0.6094 | 1.8700e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 186.4202 | 186.4202 | 5.0000e-003 | | 186.5451 |
| Total | 0.0830 | 0.0539 | 0.6094 | 1.8700e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 186.4202 | 186.4202 | 5.0000e-003 | | 186.5451 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.6733 | 0.0000 | 8.6733 | 3.5965 | 0.0000 | 3.5965 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1912 | 46.3998 | 30.8785 | 0.0620 | | 1.9853 | 1.9853 | | 1.8265 | 1.8265 | | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| Total | 4.1912 | 46.3998 | 30.8785 | 0.0620 | 8.6733 | 1.9853 | 10.6587 | 3.5965 | 1.8265 | 5.4230 | | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.4 Grading - 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 | 0.0922 | 0.0599 | 0.6771 | 2.0800e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 207.1336 | 207.1336 | 5.5500e-003 | | 207.2724 |
| Total | 0.0922 | 0.0599 | 0.6771 | 2.0800e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 207.1336 | 207.1336 | 5.5500e-003 | | 207.2724 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.9030 | 0.0000 | 3.9030 | 1.6184 | 0.0000 | 1.6184 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0620 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0620 | 3.9030 | 0.1015 | 4.0045 | 1.6184 | 0.1015 | 1.7200 | 0.0000 | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.4 Grading - 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 | 0.0922 | 0.0599 | 0.6771 | 2.0800e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 207.1336 | 207.1336 | 5.5500e-003 | | 207.2724 |
| Total | 0.0922 | 0.0599 | 0.6771 | 2.0800e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 207.1336 | 207.1336 | 5.5500e-003 | | 207.2724 |

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 | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 0.2724 | 8.8418 | 2.3554 | 0.0231 | 0.5952 | 0.0184 | 0.6137 | 0.1714 | 0.0176 | 0.1890 | | 2,460.3168 | 2,460.3168 | 0.1646 | | 2,464.4322 |
| Worker | 1.8678 | 1.2137 | 13.7109 | 0.0421 | 4.5270 | 0.0333 | 4.5603 | 1.2006 | 0.0307 | 1.2313 | | 4,194.4549 | 4,194.4549 | 0.1124 | | 4,197.2652 |
| Total | 2.1402 | 10.0555 | 16.0663 | 0.0651 | 5.1222 | 0.0518 | 5.1739 | 1.3719 | 0.0483 | 1.4202 | | 6,654.7717 | 6,654.7717 | 0.2770 | | 6,661.6974 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 0.2724 | 8.8418 | 2.3554 | 0.0231 | 0.5952 | 0.0184 | 0.6137 | 0.1714 | 0.0176 | 0.1890 | | 2,460.3168 | 2,460.3168 | 0.1646 | | 2,464.4322 |
| Worker | 1.8678 | 1.2137 | 13.7109 | 0.0421 | 4.5270 | 0.0333 | 4.5603 | 1.2006 | 0.0307 | 1.2313 | | 4,194.4549 | 4,194.4549 | 0.1124 | | 4,197.2652 |
| Total | 2.1402 | 10.0555 | 16.0663 | 0.0651 | 5.1222 | 0.0518 | 5.1739 | 1.3719 | 0.0483 | 1.4202 | | 6,654.7717 | 6,654.7717 | 0.2770 | | 6,661.6974 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2556 | 8.3860 | 2.2273 | 0.0228 | 0.5952 | 0.0160 | 0.6112 | 0.1714 | 0.0153 | 0.1866 | | 2,438.4063 | 2,438.4063 | 0.1584 | | 2,442.3653 |
| Worker | 1.7566 | 1.0961 | 12.6552 | 0.0406 | 4.5270 | 0.0324 | 4.5593 | 1.2006 | 0.0298 | 1.2304 | | 4,044.0729 | 4,044.0729 | 0.1015 | | 4,046.6108 |
| Total | 2.0122 | 9.4820 | 14.8825 | 0.0634 | 5.1222 | 0.0484 | 5.1705 | 1.3719 | 0.0451 | 1.4170 | | 6,482.4792 | 6,482.4792 | 0.2599 | | 6,488.9760 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2556 | 8.3860 | 2.2273 | 0.0228 | 0.5952 | 0.0160 | 0.6112 | 0.1714 | 0.0153 | 0.1866 | | 2,438.4063 | 2,438.4063 | 0.1584 | | 2,442.3653 |
| Worker | 1.7566 | 1.0961 | 12.6552 | 0.0406 | 4.5270 | 0.0324 | 4.5593 | 1.2006 | 0.0298 | 1.2304 | | 4,044.0729 | 4,044.0729 | 0.1015 | | 4,046.6108 |
| Total | 2.0122 | 9.4820 | 14.8825 | 0.0634 | 5.1222 | 0.0484 | 5.1705 | 1.3719 | 0.0451 | 1.4170 | | 6,482.4792 | 6,482.4792 | 0.2599 | | 6,488.9760 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.6393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.7421 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.6393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9198 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 136.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 136.2980 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.3513 | 0.2192 | 2.5310 | 8.1100e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 808.8146 | 808.8146 | 0.0203 | | 809.3222 |
| Total | 0.3513 | 0.2192 | 2.5310 | 8.1100e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 808.8146 | 808.8146 | 0.0203 | | 809.3222 |

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 | 136.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 136.1232 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.3513 | 0.2192 | 2.5310 | 8.1100e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 808.8146 | 808.8146 | 0.0203 | | 809.3222 |
| Total | 0.3513 | 0.2192 | 2.5310 | 8.1100e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 808.8146 | 808.8146 | 0.0203 | | 809.3222 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement NEV Network

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 4.4487 | 20.9277 | 58.8563 | 0.2357 | 21.1342 | 0.1701 | 21.3043 | 5.6545 | 0.1582 | 5.8127 | | 24,036.4870 | 24,036.4870 | 1.1061 | | 24,064.1392 |
| Unmitigated | 4.4581 | 20.9813 | 59.0973 | 0.2369 | 21.2404 | 0.1709 | 21.4113 | 5.6829 | 0.1589 | 5.8418 | | 24,150.1101 | 24,150.1101 | 1.1106 | | 24,177.8744 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|----------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 1,659.00 | 1,967.10 | 1441.75 | 5,713,405 | 5,684,838 |
| General Office Building | 1,014.21 | 226.20 | 96.55 | 2,482,268 | 2,469,856 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 2,673.21 | 2,193.30 | 1,538.30 | 8,195,673 | 8,154,694 |

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 High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Parking Lot | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |
| NaturalGas Unmitigated | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 High Rise | 9974.5 | 0.1076 | 0.9192 | 0.3912 | 5.8700e-003 | | 0.0743 | 0.0743 | | 0.0743 | 0.0743 | | 1,173.4702 | 1,173.4702 | 0.0225 | 0.0215 | 1,180.4436 |
| General Office Building | 2622.38 | 0.0283 | 0.2571 | 0.2160 | 1.5400e-003 | | 0.0195 | 0.0195 | | 0.0195 | 0.0195 | | 308.5152 | 308.5152 | 5.9100e-003 | 5.6600e-003 | 310.3485 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 9.9745 | 0.1076 | 0.9192 | 0.3912 | 5.8700e-003 | | 0.0743 | 0.0743 | | 0.0743 | 0.0743 | | 1,173.4702 | 1,173.4702 | 0.0225 | 0.0215 | 1,180.4436 |
| General Office Building | 2.62238 | 0.0283 | 0.2571 | 0.2160 | 1.5400e-003 | | 0.0195 | 0.0195 | | 0.0195 | 0.0195 | | 308.5152 | 308.5152 | 5.9100e-003 | 5.6600e-003 | 310.3485 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |

6.0 Area Detail

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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 | 9.3121 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | 0.0000 | 58.4178 | 58.4178 | 0.0541 | 0.0000 | 59.7693 |
| Unmitigated | 9.5094 | 1.6868 | 33.2176 | 0.0101 | | 0.2866 | 0.2866 | | 0.2866 | 0.2866 | 0.0000 | 1,731.7581 | 1,731.7581 | 0.0889 | 0.0307 | 1,743.1193 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

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 | 0.7457 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 7.6223 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.1534 | 1.3105 | 0.5577 | 8.3600e-003 | | 0.1060 | 0.1060 | | 0.1060 | 0.1060 | 0.0000 | 1,672.9412 | 1,672.9412 | 0.0321 | 0.0307 | 1,682.8826 |
| Landscaping | 0.9880 | 0.3763 | 32.6600 | 1.7300e-003 | | 0.1806 | 0.1806 | | 0.1806 | 0.1806 | | 58.8169 | 58.8169 | 0.0568 | | 60.2367 |
| Total | 9.5094 | 1.6868 | 33.2176 | 0.0101 | | 0.2866 | 0.2866 | | 0.2866 | 0.2866 | 0.0000 | 1,731.7581 | 1,731.7581 | 0.0889 | 0.0307 | 1,743.1193 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 0.7457 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 7.6223 | | | | | 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 | 0.9441 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | | 58.4178 | 58.4178 | 0.0541 | | 59.7693 |
| Total | 9.3121 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | 0.0000 | 58.4178 | 58.4178 | 0.0541 | 0.0000 | 59.7693 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Winter

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

**Santa Monica Housing Element - Future Project - Maximum Scenario
South Coast AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 91.95 | 1000sqft | 2.11 | 91,947.00 | 0 |
| Parking Lot | 542.00 | Space | 4.88 | 216,800.00 | 0 |
| Apartments High Rise | 395.00 | Dwelling Unit | 6.37 | 289,140.00 | 1130 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

Project Characteristics - File Name Future Project Max

395 DUs

3 Developments/year

Total Developments over 8 yrs - 24

Land Use - 395 DU at 732 sq ft = 289,140

Construction Phase -

Demolition -

Woodstoves - No wood stoves

Assume 20% gas fireplaces

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final

Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.

No fireplaces

Coatings per SCAQMD Rule 1113 for building envelope coatings of 50g/l, default coatings 50g/l, and traffic paint 100 g/l

Energy Mitigation - 100% solar

Water Mitigation - Green building code requires water efficient landscape and irrigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

| | | | |
|-------------------------|----------------------------|------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblFireplaces | NumberGas | 335.75 | 79.00 |
| tblFireplaces | NumberNoFireplace | 39.50 | 316.00 |
| tblFireplaces | NumberWood | 19.75 | 0.00 |
| tblLandUse | LandUseSquareFeet | 91,950.00 | 91,947.00 |
| tblLandUse | LandUseSquareFeet | 395,000.00 | 289,140.00 |
| tblTripsAndVMT | HaulingTripNumber | 334.00 | 371.00 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

| | | | |
|---------------|--------------------|-------|------|
| tblWoodstoves | NumberCatalytic | 19.75 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.75 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 9.5094 | 1.6868 | 33.2176 | 0.0101 | | 0.2866 | 0.2866 | | 0.2866 | 0.2866 | 0.0000 | 1,731.758 1 | 1,731.758 1 | 0.0889 | 0.0307 | 1,743.119 3 |
| Energy | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.985 4 | 1,481.985 4 | 0.0284 | 0.0272 | 1,490.792 1 |
| Mobile | 4.7077 | 20.5768 | 63.4187 | 0.2502 | 21.2404 | 0.1701 | 21.4105 | 5.6829 | 0.1581 | 5.8410 | | 25,490.49 98 | 25,490.49 98 | 1.1135 | | 25,518.33 68 |
| Total | 14.3529 | 23.4399 | 97.2435 | 0.2677 | 21.2404 | 0.5505 | 21.7910 | 5.6829 | 0.5386 | 6.2215 | 0.0000 | 28,704.24 33 | 28,704.24 33 | 1.2307 | 0.0578 | 28,752.24 81 |

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 | 9.3121 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | 0.0000 | 58.4178 | 58.4178 | 0.0541 | 0.0000 | 59.7693 |
| Energy | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.985 4 | 1,481.985 4 | 0.0284 | 0.0272 | 1,490.792 1 |
| Mobile | 4.6980 | 20.5263 | 63.1473 | 0.2490 | 21.1342 | 0.1693 | 21.3035 | 5.6545 | 0.1574 | 5.8119 | | 25,370.95 16 | 25,370.95 16 | 1.1089 | | 25,398.67 29 |
| Total | 14.1459 | 22.0776 | 96.2651 | 0.2581 | 21.1342 | 0.4436 | 21.5778 | 5.6545 | 0.4317 | 6.0862 | 0.0000 | 26,911.35 48 | 26,911.35 48 | 1.1913 | 0.0272 | 26,949.23 43 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 1.44 | 5.81 | 1.01 | 3.57 | 0.50 | 19.43 | 0.98 | 0.50 | 19.85 | 2.18 | 0.00 | 6.25 | 6.25 | 3.20 | 53.03 | 6.27 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 5/12/2021 | 6/8/2021 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 6/9/2021 | 6/22/2021 | 5 | 10 | |
| 3 | Grading | Grading | 6/23/2021 | 8/3/2021 | 5 | 30 | |
| 4 | Building Construction | Building Construction | 8/4/2021 | 9/27/2022 | 5 | 300 | |
| 5 | Paving | Paving | 9/28/2022 | 10/25/2022 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 10/26/2022 | 11/22/2022 | 5 | 20 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 4.88

Residential Indoor: 585,509; Residential Outdoor: 195,170; Non-Residential Indoor: 137,921; Non-Residential Outdoor: 45,974; Striped Parking Area: 13,008 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 371.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 405.00 | 93.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 81.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.6132 | 0.0000 | 3.6132 | 0.5471 | 0.0000 | 0.5471 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1651 | 31.4407 | 21.5650 | 0.0388 | | 1.5513 | 1.5513 | | 1.4411 | 1.4411 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 3.1651 | 31.4407 | 21.5650 | 0.0388 | 3.6132 | 1.5513 | 5.1646 | 0.5471 | 1.4411 | 1.9882 | | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1346 | 4.6929 | 0.9934 | 0.0142 | 0.3241 | 0.0146 | 0.3387 | 0.0888 | 0.0139 | 0.1028 | | 1,538.7959 | 1,538.7959 | 0.1027 | | 1,541.3624 |
| 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 | 0.0633 | 0.0411 | 0.5651 | 1.6700e-003 | 0.1677 | 1.2300e-003 | 0.1689 | 0.0445 | 1.1400e-003 | 0.0456 | | 166.1105 | 166.1105 | 4.4700e-003 | | 166.2222 |
| Total | 0.1979 | 4.7340 | 1.5585 | 0.0159 | 0.4918 | 0.0158 | 0.5076 | 0.1333 | 0.0151 | 0.1484 | | 1,704.9064 | 1,704.9064 | 0.1071 | | 1,707.5846 |

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 | | | | | 1.6260 | 0.0000 | 1.6260 | 0.2462 | 0.0000 | 0.2462 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 1.6260 | 0.0616 | 1.6876 | 0.2462 | 0.0616 | 0.3078 | 0.0000 | 3,747.9449 | 3,747.9449 | 1.0549 | | 3,774.3174 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.1346 | 4.6929 | 0.9934 | 0.0142 | 0.3241 | 0.0146 | 0.3387 | 0.0888 | 0.0139 | 0.1028 | | 1,538.7959 | 1,538.7959 | 0.1027 | | 1,541.3624 |
| 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 | 0.0633 | 0.0411 | 0.5651 | 1.6700e-003 | 0.1677 | 1.2300e-003 | 0.1689 | 0.0445 | 1.1400e-003 | 0.0456 | | 166.1105 | 166.1105 | 4.4700e-003 | | 166.2222 |
| Total | 0.1979 | 4.7340 | 1.5585 | 0.0159 | 0.4918 | 0.0158 | 0.5076 | 0.1333 | 0.0151 | 0.1484 | | 1,704.9064 | 1,704.9064 | 0.1071 | | 1,707.5846 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 3.8882 | 40.4971 | 21.1543 | 0.0380 | 18.0663 | 2.0445 | 20.1107 | 9.9307 | 1.8809 | 11.8116 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0760 | 0.0493 | 0.6781 | 2.0000e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 199.3326 | 199.3326 | 5.3600e-003 | | 199.4666 |
| Total | 0.0760 | 0.0493 | 0.6781 | 2.0000e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 199.3326 | 199.3326 | 5.3600e-003 | | 199.4666 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 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 | 0.0760 | 0.0493 | 0.6781 | 2.0000e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 199.3326 | 199.3326 | 5.3600e-003 | | 199.4666 |
| Total | 0.0760 | 0.0493 | 0.6781 | 2.0000e-003 | 0.2012 | 1.4800e-003 | 0.2027 | 0.0534 | 1.3600e-003 | 0.0547 | | 199.3326 | 199.3326 | 5.3600e-003 | | 199.4666 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.6733 | 0.0000 | 8.6733 | 3.5965 | 0.0000 | 3.5965 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.1912 | 46.3998 | 30.8785 | 0.0620 | | 1.9853 | 1.9853 | | 1.8265 | 1.8265 | | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| Total | 4.1912 | 46.3998 | 30.8785 | 0.0620 | 8.6733 | 1.9853 | 10.6587 | 3.5965 | 1.8265 | 5.4230 | | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.4 Grading - 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 | 0.0844 | 0.0548 | 0.7535 | 2.2200e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 221.4807 | 221.4807 | 5.9600e-003 | | 221.6296 |
| Total | 0.0844 | 0.0548 | 0.7535 | 2.2200e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 221.4807 | 221.4807 | 5.9600e-003 | | 221.6296 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.9030 | 0.0000 | 3.9030 | 1.6184 | 0.0000 | 1.6184 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0620 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0620 | 3.9030 | 0.1015 | 4.0045 | 1.6184 | 0.1015 | 1.7200 | 0.0000 | 6,007.0434 | 6,007.0434 | 1.9428 | | 6,055.6134 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.4 Grading - 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 | 0.0844 | 0.0548 | 0.7535 | 2.2200e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 221.4807 | 221.4807 | 5.9600e-003 | | 221.6296 |
| Total | 0.0844 | 0.0548 | 0.7535 | 2.2200e-003 | 0.2236 | 1.6500e-003 | 0.2252 | 0.0593 | 1.5200e-003 | 0.0608 | | 221.4807 | 221.4807 | 5.9600e-003 | | 221.6296 |

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 | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 0.2588 | 8.8699 | 2.1048 | 0.0237 | 0.5952 | 0.0179 | 0.6131 | 0.1714 | 0.0171 | 0.1884 | | 2,533.6777 | 2,533.6777 | 0.1533 | | 2,537.5094 |
| Worker | 1.7096 | 1.1088 | 15.2573 | 0.0450 | 4.5270 | 0.0333 | 4.5603 | 1.2006 | 0.0307 | 1.2313 | | 4,484.9834 | 4,484.9834 | 0.1206 | | 4,487.9986 |
| Total | 1.9684 | 9.9787 | 17.3622 | 0.0687 | 5.1222 | 0.0512 | 5.1734 | 1.3719 | 0.0478 | 1.4197 | | 7,018.6612 | 7,018.6612 | 0.2739 | | 7,025.5080 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 0.2588 | 8.8699 | 2.1048 | 0.0237 | 0.5952 | 0.0179 | 0.6131 | 0.1714 | 0.0171 | 0.1884 | | 2,533.6777 | 2,533.6777 | 0.1533 | | 2,537.5094 |
| Worker | 1.7096 | 1.1088 | 15.2573 | 0.0450 | 4.5270 | 0.0333 | 4.5603 | 1.2006 | 0.0307 | 1.2313 | | 4,484.9834 | 4,484.9834 | 0.1206 | | 4,487.9986 |
| Total | 1.9684 | 9.9787 | 17.3622 | 0.0687 | 5.1222 | 0.0512 | 5.1734 | 1.3719 | 0.0478 | 1.4197 | | 7,018.6612 | 7,018.6612 | 0.2739 | | 7,025.5080 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2427 | 8.4196 | 1.9893 | 0.0235 | 0.5952 | 0.0155 | 0.6107 | 0.1714 | 0.0148 | 0.1862 | | 2,511.5499 | 2,511.5499 | 0.1476 | | 2,515.2385 |
| Worker | 1.6036 | 1.0016 | 14.1083 | 0.0434 | 4.5270 | 0.0324 | 4.5593 | 1.2006 | 0.0298 | 1.2304 | | 4,324.2819 | 4,324.2819 | 0.1090 | | 4,327.0070 |
| Total | 1.8463 | 9.4211 | 16.0976 | 0.0669 | 5.1222 | 0.0479 | 5.1700 | 1.3719 | 0.0446 | 1.4165 | | 6,835.8318 | 6,835.8318 | 0.2566 | | 6,842.2455 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.2427 | 8.4196 | 1.9893 | 0.0235 | 0.5952 | 0.0155 | 0.6107 | 0.1714 | 0.0148 | 0.1862 | | 2,511.5499 | 2,511.5499 | 0.1476 | | 2,515.2385 |
| Worker | 1.6036 | 1.0016 | 14.1083 | 0.0434 | 4.5270 | 0.0324 | 4.5593 | 1.2006 | 0.0298 | 1.2304 | | 4,324.2819 | 4,324.2819 | 0.1090 | | 4,327.0070 |
| Total | 1.8463 | 9.4211 | 16.0976 | 0.0669 | 5.1222 | 0.0479 | 5.1700 | 1.3719 | 0.0446 | 1.4165 | | 6,835.8318 | 6,835.8318 | 0.2566 | | 6,842.2455 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.6393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.7421 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 0.6393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9198 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 136.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 136.2980 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.3207 | 0.2003 | 2.8217 | 8.6800e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 864.8564 | 864.8564 | 0.0218 | | 865.4014 |
| Total | 0.3207 | 0.2003 | 2.8217 | 8.6800e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 864.8564 | 864.8564 | 0.0218 | | 865.4014 |

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 | 136.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 136.1232 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.3207 | 0.2003 | 2.8217 | 8.6800e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 864.8564 | 864.8564 | 0.0218 | | 865.4014 |
| Total | 0.3207 | 0.2003 | 2.8217 | 8.6800e-003 | 0.9054 | 6.4700e-003 | 0.9119 | 0.2401 | 5.9600e-003 | 0.2461 | | 864.8564 | 864.8564 | 0.0218 | | 865.4014 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement NEV Network

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 4.6980 | 20.5263 | 63.1473 | 0.2490 | 21.1342 | 0.1693 | 21.3035 | 5.6545 | 0.1574 | 5.8119 | | 25,370.95 16 | 25,370.95 16 | 1.1089 | | 25,398.67 29 |
| Unmitigated | 4.7077 | 20.5768 | 63.4187 | 0.2502 | 21.2404 | 0.1701 | 21.4105 | 5.6829 | 0.1581 | 5.8410 | | 25,490.49 98 | 25,490.49 98 | 1.1135 | | 25,518.33 68 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 1,659.00 | 1,967.10 | 1441.75 | 5,713,405 | 5,684,838 |
| General Office Building | 1,014.21 | 226.20 | 96.55 | 2,482,268 | 2,469,856 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 2,673.21 | 2,193.30 | 1,538.30 | 8,195,673 | 8,154,694 |

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 High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Parking Lot | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |
| NaturalGas Unmitigated | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 High Rise | 9974.5 | 0.1076 | 0.9192 | 0.3912 | 5.8700e-003 | | 0.0743 | 0.0743 | | 0.0743 | 0.0743 | | 1,173.4702 | 1,173.4702 | 0.0225 | 0.0215 | 1,180.4436 |
| General Office Building | 2622.38 | 0.0283 | 0.2571 | 0.2160 | 1.5400e-003 | | 0.0195 | 0.0195 | | 0.0195 | 0.0195 | | 308.5152 | 308.5152 | 5.9100e-003 | 5.6600e-003 | 310.3485 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 9.9745 | 0.1076 | 0.9192 | 0.3912 | 5.8700e-003 | | 0.0743 | 0.0743 | | 0.0743 | 0.0743 | | 1,173.4702 | 1,173.4702 | 0.0225 | 0.0215 | 1,180.4436 |
| General Office Building | 2.62238 | 0.0283 | 0.2571 | 0.2160 | 1.5400e-003 | | 0.0195 | 0.0195 | | 0.0195 | 0.0195 | | 308.5152 | 308.5152 | 5.9100e-003 | 5.6600e-003 | 310.3485 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1359 | 1.1763 | 0.6071 | 7.4100e-003 | | 0.0939 | 0.0939 | | 0.0939 | 0.0939 | | 1,481.9854 | 1,481.9854 | 0.0284 | 0.0272 | 1,490.7921 |

6.0 Area Detail

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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 | 9.3121 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | 0.0000 | 58.4178 | 58.4178 | 0.0541 | 0.0000 | 59.7693 |
| Unmitigated | 9.5094 | 1.6868 | 33.2176 | 0.0101 | | 0.2866 | 0.2866 | | 0.2866 | 0.2866 | 0.0000 | 1,731.7581 | 1,731.7581 | 0.0889 | 0.0307 | 1,743.1193 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

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 | 0.7457 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 7.6223 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.1534 | 1.3105 | 0.5577 | 8.3600e-003 | | 0.1060 | 0.1060 | | 0.1060 | 0.1060 | 0.0000 | 1,672.9412 | 1,672.9412 | 0.0321 | 0.0307 | 1,682.8826 |
| Landscaping | 0.9880 | 0.3763 | 32.6600 | 1.7300e-003 | | 0.1806 | 0.1806 | | 0.1806 | 0.1806 | | 58.8169 | 58.8169 | 0.0568 | | 60.2367 |
| Total | 9.5094 | 1.6868 | 33.2176 | 0.0101 | | 0.2866 | 0.2866 | | 0.2866 | 0.2866 | 0.0000 | 1,731.7581 | 1,731.7581 | 0.0889 | 0.0307 | 1,743.1193 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 0.7457 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 7.6223 | | | | | 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 | 0.9441 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | | 58.4178 | 58.4178 | 0.0541 | | 59.7693 |
| Total | 9.3121 | 0.3750 | 32.5106 | 1.7100e-003 | | 0.1804 | 0.1804 | | 0.1804 | 0.1804 | 0.0000 | 58.4178 | 58.4178 | 0.0541 | 0.0000 | 59.7693 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Summer

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

Santa Monica Housing Element - Future Project - Maximum Scenario
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 91.95 | 1000sqft | 2.11 | 91,947.00 | 0 |
| Parking Lot | 542.00 | Space | 4.88 | 216,800.00 | 0 |
| Apartments High Rise | 395.00 | Dwelling Unit | 6.37 | 289,140.00 | 1130 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

Project Characteristics - File Name Future Project Max

395 DUs
 3 Developments/year
 Total Developments over 8 yrs - 24
 Land Use - 395 DU at 732 sq ft = 289,140

Construction Phase -

Demolition -

Woodstoves - No wood stoves
 Assume 20% gas fireplaces

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.

No fireplaces

Coatings per SCAQMD Rule 1113 for building envelope coatings of 50g/l, default coatings 50g/l, and traffic paint 100 g/l

Energy Mitigation - 100% solar

Water Mitigation - Green building code requires water efficient landscape and irrigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| | | | |
|-------------------------|----------------------------|------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblFireplaces | NumberGas | 335.75 | 79.00 |
| tblFireplaces | NumberNoFireplace | 39.50 | 316.00 |
| tblFireplaces | NumberWood | 19.75 | 0.00 |
| tblLandUse | LandUseSquareFeet | 91,950.00 | 91,947.00 |
| tblLandUse | LandUseSquareFeet | 395,000.00 | 289,140.00 |
| tblTripsAndVMT | HaulingTripNumber | 334.00 | 371.00 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| | | | |
|---------------|--------------------|-------|------|
| tblWoodstoves | NumberCatalytic | 19.75 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 19.75 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1 | 5-12-2021 | 8-11-2021 | 1.4683 | 0.1915 |
| 2 | 8-12-2021 | 11-11-2021 | 1.0315 | 0.4805 |
| 3 | 11-12-2021 | 2-11-2022 | 0.9953 | 0.4744 |
| 4 | 2-12-2022 | 5-11-2022 | 0.9126 | 0.4435 |
| 5 | 5-12-2022 | 8-11-2022 | 0.9394 | 0.4544 |
| 6 | 8-12-2022 | 9-30-2022 | 0.4938 | 0.2345 |
| | | Highest | 1.4683 | 0.4805 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.6526 | 0.0634 | 4.0895 | 3.2000e-004 | | 0.0239 | 0.0239 | | 0.0239 | 0.0239 | 0.0000 | 25.6406 | 25.6406 | 6.8000e-003 | 3.5000e-004 | 25.9143 |
| Energy | 0.0248 | 0.2147 | 0.1108 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 1,148.4927 | 1,148.4927 | 0.0420 | 0.0122 | 1,153.1818 |
| Mobile | 0.6516 | 3.1835 | 8.9762 | 0.0359 | 3.1142 | 0.0254 | 3.1396 | 0.8345 | 0.0236 | 0.8581 | 0.0000 | 3,319.0139 | 3,319.0139 | 0.1496 | 0.0000 | 3,322.7536 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 54.2412 | 0.0000 | 54.2412 | 3.2056 | 0.0000 | 134.3803 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.3496 | 267.4647 | 280.8142 | 1.3822 | 0.0347 | 325.6971 |
| Total | 2.3289 | 3.4616 | 13.1765 | 0.0376 | 3.1142 | 0.0664 | 3.1806 | 0.8345 | 0.0647 | 0.8991 | 67.5908 | 4,760.6119 | 4,828.2026 | 4.7861 | 0.0472 | 4,961.9271 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, 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 | 1.6452 | 0.0469 | 4.0638 | 2.1000e-004 | | 0.0226 | 0.0226 | | 0.0226 | 0.0226 | 0.0000 | 6.6245 | 6.6245 | 6.1300e-003 | 0.0000 | 6.7777 |
| Energy | 0.0248 | 0.2147 | 0.1108 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.3593 | 245.3593 | 4.7000e-003 | 4.5000e-003 | 246.8173 |
| Mobile | 0.6502 | 3.1754 | 8.9391 | 0.0357 | 3.0986 | 0.0253 | 3.1239 | 0.8303 | 0.0235 | 0.8538 | 0.0000 | 3,303.4427 | 3,303.4427 | 0.1490 | 0.0000 | 3,307.1671 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 54.2412 | 0.0000 | 54.2412 | 3.2056 | 0.0000 | 134.3803 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.6796 | 226.8836 | 237.5632 | 1.1063 | 0.0278 | 273.5157 |
| Total | 2.3201 | 3.4369 | 13.1137 | 0.0373 | 3.0986 | 0.0650 | 3.1636 | 0.8303 | 0.0632 | 0.8935 | 64.9209 | 3,782.3100 | 3,847.2309 | 4.4716 | 0.0323 | 3,968.6582 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|
| Percent Reduction | 0.38 | 0.71 | 0.48 | 0.75 | 0.50 | 2.20 | 0.54 | 0.50 | 2.26 | 0.63 | 3.95 | 20.55 | 20.32 | 6.57 | 31.51 | 20.02 |

3.0 Construction Detail

Construction Phase

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 5/12/2021 | 6/8/2021 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 6/9/2021 | 6/22/2021 | 5 | 10 | |
| 3 | Grading | Grading | 6/23/2021 | 8/3/2021 | 5 | 30 | |
| 4 | Building Construction | Building Construction | 8/4/2021 | 9/27/2022 | 5 | 300 | |
| 5 | Paving | Paving | 9/28/2022 | 10/25/2022 | 5 | 20 | |
| 6 | Architectural Coating | Architectural Coating | 10/26/2022 | 11/22/2022 | 5 | 20 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 4.88

Residential Indoor: 585,509; Residential Outdoor: 195,170; Non-Residential Indoor: 137,921; Non-Residential Outdoor: 45,974; Striped Parking Area: 13,008 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 371.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 405.00 | 93.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 81.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0361 | 0.0000 | 0.0361 | 5.4700e-003 | 0.0000 | 5.4700e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0317 | 0.3144 | 0.2157 | 3.9000e-004 | | 0.0155 | 0.0155 | | 0.0144 | 0.0144 | 0.0000 | 34.0008 | 34.0008 | 9.5700e-003 | 0.0000 | 34.2400 |
| Total | 0.0317 | 0.3144 | 0.2157 | 3.9000e-004 | 0.0361 | 0.0155 | 0.0516 | 5.4700e-003 | 0.0144 | 0.0199 | 0.0000 | 34.0008 | 34.0008 | 9.5700e-003 | 0.0000 | 34.2400 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.3600e-003 | 0.0483 | 0.0103 | 1.4000e-004 | 3.1900e-003 | 1.5000e-004 | 3.3400e-003 | 8.8000e-004 | 1.4000e-004 | 1.0200e-003 | 0.0000 | 13.8513 | 13.8513 | 9.5000e-004 | 0.0000 | 13.8750 |
| 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 | 6.3000e-004 | 4.6000e-004 | 5.2300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.4335 | 1.4335 | 4.0000e-005 | 0.0000 | 1.4345 |
| Total | 1.9900e-003 | 0.0488 | 0.0155 | 1.6000e-004 | 4.8400e-003 | 1.6000e-004 | 5.0000e-003 | 1.3200e-003 | 1.5000e-004 | 1.4700e-003 | 0.0000 | 15.2848 | 15.2848 | 9.9000e-004 | 0.0000 | 15.3094 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0163 | 0.0000 | 0.0163 | 2.4600e-003 | 0.0000 | 2.4600e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.6200e-003 | 0.0200 | 0.2328 | 3.9000e-004 | | 6.2000e-004 | 6.2000e-004 | | 6.2000e-004 | 6.2000e-004 | 0.0000 | 34.0007 | 34.0007 | 9.5700e-003 | 0.0000 | 34.2400 |
| Total | 4.6200e-003 | 0.0200 | 0.2328 | 3.9000e-004 | 0.0163 | 6.2000e-004 | 0.0169 | 2.4600e-003 | 6.2000e-004 | 3.0800e-003 | 0.0000 | 34.0007 | 34.0007 | 9.5700e-003 | 0.0000 | 34.2400 |

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3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.3600e-003 | 0.0483 | 0.0103 | 1.4000e-004 | 3.1900e-003 | 1.5000e-004 | 3.3400e-003 | 8.8000e-004 | 1.4000e-004 | 1.0200e-003 | 0.0000 | 13.8513 | 13.8513 | 9.5000e-004 | 0.0000 | 13.8750 |
| 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 | 6.3000e-004 | 4.6000e-004 | 5.2300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.4335 | 1.4335 | 4.0000e-005 | 0.0000 | 1.4345 |
| Total | 1.9900e-003 | 0.0488 | 0.0155 | 1.6000e-004 | 4.8400e-003 | 1.6000e-004 | 5.0000e-003 | 1.3200e-003 | 1.5000e-004 | 1.4700e-003 | 0.0000 | 15.2848 | 15.2848 | 9.9000e-004 | 0.0000 | 15.3094 |

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0903 | 0.0000 | 0.0903 | 0.0497 | 0.0000 | 0.0497 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0194 | 0.2025 | 0.1058 | 1.9000e-004 | | 0.0102 | 0.0102 | | 9.4000e-003 | 9.4000e-003 | 0.0000 | 16.7179 | 16.7179 | 5.4100e-003 | 0.0000 | 16.8530 |
| Total | 0.0194 | 0.2025 | 0.1058 | 1.9000e-004 | 0.0903 | 0.0102 | 0.1006 | 0.0497 | 9.4000e-003 | 0.0591 | 0.0000 | 16.7179 | 16.7179 | 5.4100e-003 | 0.0000 | 16.8530 |

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3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 3.8000e-004 | 2.8000e-004 | 3.1400e-003 | 1.0000e-005 | 9.9000e-004 | 1.0000e-005 | 9.9000e-004 | 2.6000e-004 | 1.0000e-005 | 2.7000e-004 | 0.0000 | 0.8601 | 0.8601 | 2.0000e-005 | 0.0000 | 0.8607 |
| Total | 3.8000e-004 | 2.8000e-004 | 3.1400e-003 | 1.0000e-005 | 9.9000e-004 | 1.0000e-005 | 9.9000e-004 | 2.6000e-004 | 1.0000e-005 | 2.7000e-004 | 0.0000 | 0.8601 | 0.8601 | 2.0000e-005 | 0.0000 | 0.8607 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0407 | 0.0000 | 0.0407 | 0.0223 | 0.0000 | 0.0223 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.3300e-003 | 0.0101 | 0.1043 | 1.9000e-004 | | 3.1000e-004 | 3.1000e-004 | | 3.1000e-004 | 3.1000e-004 | 0.0000 | 16.7178 | 16.7178 | 5.4100e-003 | 0.0000 | 16.8530 |
| Total | 2.3300e-003 | 0.0101 | 0.1043 | 1.9000e-004 | 0.0407 | 3.1000e-004 | 0.0410 | 0.0223 | 3.1000e-004 | 0.0227 | 0.0000 | 16.7178 | 16.7178 | 5.4100e-003 | 0.0000 | 16.8530 |

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3.3 Site Preparation - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 3.8000e-004 | 2.8000e-004 | 3.1400e-003 | 1.0000e-005 | 9.9000e-004 | 1.0000e-005 | 9.9000e-004 | 2.6000e-004 | 1.0000e-005 | 2.7000e-004 | 0.0000 | 0.8601 | 0.8601 | 2.0000e-005 | 0.0000 | 0.8607 |
| Total | 3.8000e-004 | 2.8000e-004 | 3.1400e-003 | 1.0000e-005 | 9.9000e-004 | 1.0000e-005 | 9.9000e-004 | 2.6000e-004 | 1.0000e-005 | 2.7000e-004 | 0.0000 | 0.8601 | 0.8601 | 2.0000e-005 | 0.0000 | 0.8607 |

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1301 | 0.0000 | 0.1301 | 0.0540 | 0.0000 | 0.0540 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0629 | 0.6960 | 0.4632 | 9.3000e-004 | | 0.0298 | 0.0298 | | 0.0274 | 0.0274 | 0.0000 | 81.7425 | 81.7425 | 0.0264 | 0.0000 | 82.4034 |
| Total | 0.0629 | 0.6960 | 0.4632 | 9.3000e-004 | 0.1301 | 0.0298 | 0.1599 | 0.0540 | 0.0274 | 0.0814 | 0.0000 | 81.7425 | 81.7425 | 0.0264 | 0.0000 | 82.4034 |

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3.4 Grading - 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 | 1.2500e-003 | 9.2000e-004 | 0.0105 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3200e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 2.8670 | 2.8670 | 8.0000e-005 | 0.0000 | 2.8689 |
| Total | 1.2500e-003 | 9.2000e-004 | 0.0105 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3200e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 2.8670 | 2.8670 | 8.0000e-005 | 0.0000 | 2.8689 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0586 | 0.0000 | 0.0586 | 0.0243 | 0.0000 | 0.0243 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0114 | 0.0495 | 0.4950 | 9.3000e-004 | | 1.5200e-003 | 1.5200e-003 | | 1.5200e-003 | 1.5200e-003 | 0.0000 | 81.7424 | 81.7424 | 0.0264 | 0.0000 | 82.4033 |
| Total | 0.0114 | 0.0495 | 0.4950 | 9.3000e-004 | 0.0586 | 1.5200e-003 | 0.0601 | 0.0243 | 1.5200e-003 | 0.0258 | 0.0000 | 81.7424 | 81.7424 | 0.0264 | 0.0000 | 82.4033 |

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3.4 Grading - 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 | 1.2500e-003 | 9.2000e-004 | 0.0105 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3200e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 2.8670 | 2.8670 | 8.0000e-005 | 0.0000 | 2.8689 |
| Total | 1.2500e-003 | 9.2000e-004 | 0.0105 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3200e-003 | 8.7000e-004 | 2.0000e-005 | 9.0000e-004 | 0.0000 | 2.8670 | 2.8670 | 8.0000e-005 | 0.0000 | 2.8689 |

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 | 0.1027 | 0.9413 | 0.8951 | 1.4500e-003 | | 0.0518 | 0.0518 | | 0.0487 | 0.0487 | 0.0000 | 125.0841 | 125.0841 | 0.0302 | 0.0000 | 125.8386 |
| Total | 0.1027 | 0.9413 | 0.8951 | 1.4500e-003 | | 0.0518 | 0.0518 | | 0.0487 | 0.0487 | 0.0000 | 125.0841 | 125.0841 | 0.0302 | 0.0000 | 125.8386 |

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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 | 0.0143 | 0.4859 | 0.1205 | 1.2700e-003 | 0.0317 | 9.8000e-004 | 0.0326 | 9.1300e-003 | 9.3000e-004 | 0.0101 | 0.0000 | 122.6104 | 122.6104 | 7.7500e-003 | 0.0000 | 122.8042 |
| Worker | 0.0912 | 0.0674 | 0.7621 | 2.3100e-003 | 0.2399 | 1.8000e-003 | 0.2417 | 0.0637 | 1.6600e-003 | 0.0654 | 0.0000 | 209.0029 | 209.0029 | 5.6100e-003 | 0.0000 | 209.1430 |
| Total | 0.1055 | 0.5533 | 0.8826 | 3.5800e-003 | 0.2716 | 2.7800e-003 | 0.2744 | 0.0729 | 2.5900e-003 | 0.0755 | 0.0000 | 331.6132 | 331.6132 | 0.0134 | 0.0000 | 331.9472 |

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 | 0.0177 | 0.1207 | 0.9429 | 1.4500e-003 | | 2.2000e-003 | 2.2000e-003 | | 2.2000e-003 | 2.2000e-003 | 0.0000 | 125.0840 | 125.0840 | 0.0302 | 0.0000 | 125.8384 |
| Total | 0.0177 | 0.1207 | 0.9429 | 1.4500e-003 | | 2.2000e-003 | 2.2000e-003 | | 2.2000e-003 | 2.2000e-003 | 0.0000 | 125.0840 | 125.0840 | 0.0302 | 0.0000 | 125.8384 |

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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 | 0.0143 | 0.4859 | 0.1205 | 1.2700e-003 | 0.0317 | 9.8000e-004 | 0.0326 | 9.1300e-003 | 9.3000e-004 | 0.0101 | 0.0000 | 122.6104 | 122.6104 | 7.7500e-003 | 0.0000 | 122.8042 |
| Worker | 0.0912 | 0.0674 | 0.7621 | 2.3100e-003 | 0.2399 | 1.8000e-003 | 0.2417 | 0.0637 | 1.6600e-003 | 0.0654 | 0.0000 | 209.0029 | 209.0029 | 5.6100e-003 | 0.0000 | 209.1430 |
| Total | 0.1055 | 0.5533 | 0.8826 | 3.5800e-003 | 0.2716 | 2.7800e-003 | 0.2744 | 0.0729 | 2.5900e-003 | 0.0755 | 0.0000 | 331.6132 | 331.6132 | 0.0134 | 0.0000 | 331.9472 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1638 | 1.4991 | 1.5709 | 2.5900e-003 | | 0.0777 | 0.0777 | | 0.0731 | 0.0731 | 0.0000 | 222.4562 | 222.4562 | 0.0533 | 0.0000 | 223.7886 |
| Total | 0.1638 | 1.4991 | 1.5709 | 2.5900e-003 | | 0.0777 | 0.0777 | | 0.0731 | 0.0731 | 0.0000 | 222.4562 | 222.4562 | 0.0533 | 0.0000 | 223.7886 |

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0238 | 0.8191 | 0.2024 | 2.2300e-003 | 0.0563 | 1.5100e-003 | 0.0578 | 0.0162 | 1.4400e-003 | 0.0177 | 0.0000 | 216.0549 | 216.0549 | 0.0133 | 0.0000 | 216.3865 |
| Worker | 0.1522 | 0.1082 | 1.2511 | 3.9600e-003 | 0.4266 | 3.1100e-003 | 0.4297 | 0.1133 | 2.8600e-003 | 0.1162 | 0.0000 | 358.2391 | 358.2391 | 9.0000e-003 | 0.0000 | 358.4641 |
| Total | 0.1760 | 0.9273 | 1.4535 | 6.1900e-003 | 0.4828 | 4.6200e-003 | 0.4875 | 0.1295 | 4.3000e-003 | 0.1338 | 0.0000 | 574.2940 | 574.2940 | 0.0223 | 0.0000 | 574.8506 |

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 | 0.0315 | 0.2145 | 1.6762 | 2.5900e-003 | | 3.9200e-003 | 3.9200e-003 | | 3.9200e-003 | 3.9200e-003 | 0.0000 | 222.4560 | 222.4560 | 0.0533 | 0.0000 | 223.7883 |
| Total | 0.0315 | 0.2145 | 1.6762 | 2.5900e-003 | | 3.9200e-003 | 3.9200e-003 | | 3.9200e-003 | 3.9200e-003 | 0.0000 | 222.4560 | 222.4560 | 0.0533 | 0.0000 | 223.7883 |

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0238 | 0.8191 | 0.2024 | 2.2300e-003 | 0.0563 | 1.5100e-003 | 0.0578 | 0.0162 | 1.4400e-003 | 0.0177 | 0.0000 | 216.0549 | 216.0549 | 0.0133 | 0.0000 | 216.3865 |
| Worker | 0.1522 | 0.1082 | 1.2511 | 3.9600e-003 | 0.4266 | 3.1100e-003 | 0.4297 | 0.1133 | 2.8600e-003 | 0.1162 | 0.0000 | 358.2391 | 358.2391 | 9.0000e-003 | 0.0000 | 358.4641 |
| Total | 0.1760 | 0.9273 | 1.4535 | 6.1900e-003 | 0.4828 | 4.6200e-003 | 0.4875 | 0.1295 | 4.3000e-003 | 0.1338 | 0.0000 | 574.2940 | 574.2940 | 0.0223 | 0.0000 | 574.8506 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0110 | 0.1113 | 0.1458 | 2.3000e-004 | | 5.6800e-003 | 5.6800e-003 | | 5.2200e-003 | 5.2200e-003 | 0.0000 | 20.0276 | 20.0276 | 6.4800e-003 | 0.0000 | 20.1895 |
| Paving | 6.3900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0174 | 0.1113 | 0.1458 | 2.3000e-004 | | 5.6800e-003 | 5.6800e-003 | | 5.2200e-003 | 5.2200e-003 | 0.0000 | 20.0276 | 20.0276 | 6.4800e-003 | 0.0000 | 20.1895 |

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3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.9000e-004 | 4.2000e-004 | 4.8300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.3821 | 1.3821 | 3.0000e-005 | 0.0000 | 1.3830 |
| Total | 5.9000e-004 | 4.2000e-004 | 4.8300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.3821 | 1.3821 | 3.0000e-005 | 0.0000 | 1.3830 |

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 | 2.8000e-003 | 0.0122 | 0.1730 | 2.3000e-004 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 20.0275 | 20.0275 | 6.4800e-003 | 0.0000 | 20.1895 |
| Paving | 6.3900e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 9.1900e-003 | 0.0122 | 0.1730 | 2.3000e-004 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 20.0275 | 20.0275 | 6.4800e-003 | 0.0000 | 20.1895 |

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3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.9000e-004 | 4.2000e-004 | 4.8300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.3821 | 1.3821 | 3.0000e-005 | 0.0000 | 1.3830 |
| Total | 5.9000e-004 | 4.2000e-004 | 4.8300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.3821 | 1.3821 | 3.0000e-005 | 0.0000 | 1.3830 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.3609 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 2.0500e-003 | 0.0141 | 0.0181 | 3.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.7000e-004 | 0.0000 | 2.5574 |
| Total | 1.3630 | 0.0141 | 0.0181 | 3.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | 0.0000 | 2.5533 | 2.5533 | 1.7000e-004 | 0.0000 | 2.5574 |

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1700e-003 | 2.2500e-003 | 0.0261 | 8.0000e-005 | 8.8900e-003 | 6.0000e-005 | 8.9500e-003 | 2.3600e-003 | 6.0000e-005 | 2.4200e-003 | 0.0000 | 7.4633 | 7.4633 | 1.9000e-004 | 0.0000 | 7.4680 |
| Total | 3.1700e-003 | 2.2500e-003 | 0.0261 | 8.0000e-005 | 8.8900e-003 | 6.0000e-005 | 8.9500e-003 | 2.3600e-003 | 6.0000e-005 | 2.4200e-003 | 0.0000 | 7.4633 | 7.4633 | 1.9000e-004 | 0.0000 | 7.4680 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.3609 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.0000e-004 | 1.2900e-003 | 0.0183 | 3.0000e-005 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 2.5533 | 2.5533 | 1.7000e-004 | 0.0000 | 2.5574 |
| Total | 1.3612 | 1.2900e-003 | 0.0183 | 3.0000e-005 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 2.5533 | 2.5533 | 1.7000e-004 | 0.0000 | 2.5574 |

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1700e-003 | 2.2500e-003 | 0.0261 | 8.0000e-005 | 8.8900e-003 | 6.0000e-005 | 8.9500e-003 | 2.3600e-003 | 6.0000e-005 | 2.4200e-003 | 0.0000 | 7.4633 | 7.4633 | 1.9000e-004 | 0.0000 | 7.4680 |
| Total | 3.1700e-003 | 2.2500e-003 | 0.0261 | 8.0000e-005 | 8.8900e-003 | 6.0000e-005 | 8.9500e-003 | 2.3600e-003 | 6.0000e-005 | 2.4200e-003 | 0.0000 | 7.4633 | 7.4633 | 1.9000e-004 | 0.0000 | 7.4680 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement NEV Network

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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 | 0.6502 | 3.1754 | 8.9391 | 0.0357 | 3.0986 | 0.0253 | 3.1239 | 0.8303 | 0.0235 | 0.8538 | 0.0000 | 3,303.4427 | 3,303.4427 | 0.1490 | 0.0000 | 3,307.1671 |
| Unmitigated | 0.6516 | 3.1835 | 8.9762 | 0.0359 | 3.1142 | 0.0254 | 3.1396 | 0.8345 | 0.0236 | 0.8581 | 0.0000 | 3,319.0139 | 3,319.0139 | 0.1496 | 0.0000 | 3,322.7536 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 1,659.00 | 1,967.10 | 1441.75 | 5,713,405 | 5,684,838 |
| General Office Building | 1,014.21 | 226.20 | 96.55 | 2,482,268 | 2,469,856 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 2,673.21 | 2,193.30 | 1,538.30 | 8,195,673 | 8,154,694 |

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 High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

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| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Parking Lot | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 903.1334 | 903.1334 | 0.0373 | 7.7100e-003 | 906.3644 |
| NaturalGas Mitigated | 0.0248 | 0.2147 | 0.1108 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.3593 | 245.3593 | 4.7000e-003 | 4.5000e-003 | 246.8173 |
| NaturalGas Unmitigated | 0.0248 | 0.2147 | 0.1108 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.3593 | 245.3593 | 4.7000e-003 | 4.5000e-003 | 246.8173 |

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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 High Rise | 3.64069e+006 | 0.0196 | 0.1678 | 0.0714 | 1.0700e-003 | | 0.0136 | 0.0136 | | 0.0136 | 0.0136 | 0.0000 | 194.2812 | 194.2812 | 3.7200e-003 | 3.5600e-003 | 195.4357 |
| General Office Building | 957168 | 5.1600e-003 | 0.0469 | 0.0394 | 2.8000e-004 | | 3.5700e-003 | 3.5700e-003 | | 3.5700e-003 | 3.5700e-003 | 0.0000 | 51.0781 | 51.0781 | 9.8000e-004 | 9.4000e-004 | 51.3817 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0248 | 0.2147 | 0.1108 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.3593 | 245.3593 | 4.7000e-003 | 4.5000e-003 | 246.8174 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments High Rise | 3.64069e+006 | 0.0196 | 0.1678 | 0.0714 | 1.0700e-003 | | 0.0136 | 0.0136 | | 0.0136 | 0.0136 | 0.0000 | 194.2812 | 194.2812 | 3.7200e-003 | 3.5600e-003 | 195.4357 |
| General Office Building | 957168 | 5.1600e-003 | 0.0469 | 0.0394 | 2.8000e-004 | | 3.5700e-003 | 3.5700e-003 | | 3.5700e-003 | 3.5700e-003 | 0.0000 | 51.0781 | 51.0781 | 9.8000e-004 | 9.4000e-004 | 51.3817 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0248 | 0.2147 | 0.1108 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.3593 | 245.3593 | 4.7000e-003 | 4.5000e-003 | 246.8174 |

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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 High Rise | 1.56423e+006 | 498.3977 | 0.0206 | 4.2600e-003 | 500.1807 |
| General Office Building | 1.19439e+006 | 380.5587 | 0.0157 | 3.2500e-003 | 381.9202 |
| Parking Lot | 75880 | 24.1770 | 1.0000e-003 | 2.1000e-004 | 24.2635 |
| Total | | 903.1334 | 0.0373 | 7.7200e-003 | 906.3644 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments High Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

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6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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 | 1.6452 | 0.0469 | 4.0638 | 2.1000e-004 | | 0.0226 | 0.0226 | | 0.0226 | 0.0226 | 0.0000 | 6.6245 | 6.6245 | 6.1300e-003 | 0.0000 | 6.7777 |
| Unmitigated | 1.6526 | 0.0634 | 4.0895 | 3.2000e-004 | | 0.0239 | 0.0239 | | 0.0239 | 0.0239 | 0.0000 | 25.6406 | 25.6406 | 6.8000e-003 | 3.5000e-004 | 25.9143 |

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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 | 0.1361 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.3911 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 1.9200e-003 | 0.0164 | 6.9700e-003 | 1.0000e-004 | | 1.3200e-003 | 1.3200e-003 | | 1.3200e-003 | 1.3200e-003 | 0.0000 | 18.9708 | 18.9708 | 3.6000e-004 | 3.5000e-004 | 19.0836 |
| Landscaping | 0.1235 | 0.0470 | 4.0825 | 2.2000e-004 | | 0.0226 | 0.0226 | | 0.0226 | 0.0226 | 0.0000 | 6.6697 | 6.6697 | 6.4400e-003 | 0.0000 | 6.8307 |
| Total | 1.6526 | 0.0634 | 4.0895 | 3.2000e-004 | | 0.0239 | 0.0239 | | 0.0239 | 0.0239 | 0.0000 | 25.6406 | 25.6406 | 6.8000e-003 | 3.5000e-004 | 25.9143 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1361 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.3911 | | | | | 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 | 0.1180 | 0.0469 | 4.0638 | 2.1000e-004 | | 0.0226 | 0.0226 | | 0.0226 | 0.0226 | 0.0000 | 6.6245 | 6.6245 | 6.1300e-003 | 0.0000 | 6.7777 |
| Total | 1.6452 | 0.0469 | 4.0638 | 2.1000e-004 | | 0.0226 | 0.0226 | | 0.0226 | 0.0226 | 0.0000 | 6.6245 | 6.6245 | 6.1300e-003 | 0.0000 | 6.7777 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 237.5632 | 1.1063 | 0.0278 | 273.5157 |
| Unmitigated | 280.8142 | 1.3822 | 0.0347 | 325.6971 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 25.7358 / 16.2248 | 172.3707 | 0.8454 | 0.0212 | 199.8240 |
| General Office Building | 16.3426 / 10.0164 | 108.4436 | 0.5368 | 0.0135 | 125.8732 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 280.8142 | 1.3822 | 0.0347 | 325.6971 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

7.2 Water by Land Use**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 20.5887 / 15.2351 | 145.8798 | 0.6766 | 0.0170 | 167.8710 |
| General Office Building | 13.0741 / 9.40544 | 91.6834 | 0.4296 | 0.0108 | 105.6447 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 237.5632 | 1.1063 | 0.0278 | 273.5157 |

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| | MT/yr | | | |
| Mitigated | 54.2412 | 3.2056 | 0.0000 | 134.3803 |
| Unmitigated | 54.2412 | 3.2056 | 0.0000 | 134.3803 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 181.7 | 36.8835 | 2.1798 | 0.0000 | 91.3772 |
| General Office Building | 85.51 | 17.3578 | 1.0258 | 0.0000 | 43.0031 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 54.2412 | 3.2056 | 0.0000 | 134.3803 |

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 181.7 | 36.8835 | 2.1798 | 0.0000 | 91.3772 |
| General Office Building | 85.51 | 17.3578 | 1.0258 | 0.0000 | 43.0031 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 54.2412 | 3.2056 | 0.0000 | 134.3803 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

Santa Monica Housing Element - Future Project - Maximum Scenario - South Coast AQMD Air District, Annual

11.0 Vegetation

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

Santa Monica Housing Element - Continuous - Future Project
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 323.76 | 1000sqft | 7.43 | 323,758.00 | 0 |
| Parking Lot | 2,104.00 | Space | 18.94 | 841,600.00 | 0 |
| Apartments High Rise | 1,229.00 | Dwelling Unit | 19.82 | 899,482.00 | 3515 |
| Condo/Townhouse | 307.00 | Dwelling Unit | 19.19 | 224,870.00 | 878 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

Project Characteristics - File Name Future Project Continuous
 Continuous Development Scenario - Future Project
 1 Development per year of 1,536 DUs for 8 years

Land Use - 1,536 DUs at 732 ft2/DU = 1,124,352 ft2
 Assume 20% Condo, 80% apts high rise
 Commercial 323,758 ft2
 Parking 1.37/DU = 2,104 spaces

Construction Phase - Adjusted based on total DU

Demolition - Demolition 185.9 ft2/DU = 285,473

Woodstoves - No wood stoves
 20% gas fireplaces

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
 No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot buidling footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water effcient landscape and irrigation

Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblFireplaces | NumberGas | 1,044.65 | 246.00 |
| tblFireplaces | NumberGas | 260.95 | 61.00 |
| tblFireplaces | NumberNoFireplace | 122.90 | 983.00 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

| | | | |
|---------------|--------------------|--------------|------------|
| tblFireplaces | NumberNoFireplace | 30.70 | 246.00 |
| tblFireplaces | NumberWood | 61.45 | 0.00 |
| tblFireplaces | NumberWood | 15.35 | 0.00 |
| tblGrading | AcresOfGrading | 10.00 | 275.00 |
| tblLandUse | LandUseSquareFeet | 323,760.00 | 323,758.00 |
| tblLandUse | LandUseSquareFeet | 1,229,000.00 | 899,482.00 |
| tblLandUse | LandUseSquareFeet | 307,000.00 | 224,870.00 |
| tblWoodstoves | NumberCatalytic | 61.45 | 0.00 |
| tblWoodstoves | NumberCatalytic | 15.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 15.35 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 36.2220 | 6.5559 | 129.1651 | 0.0392 | | 1.1142 | 1.1142 | | 1.1142 | 1.1142 | 0.0000 | 6,729.884 1 | 6,729.884 1 | 0.3454 | 0.1192 | 6,774.037 7 |
| Energy | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.877 1 | 6,543.877 1 | 0.1254 | 0.1200 | 6,582.764 0 |
| Mobile | 12.4712 | 68.5067 | 159.5085 | 0.7752 | 81.8675 | 0.4758 | 82.3433 | 21.8962 | 0.4419 | 22.3381 | | 79,467.60 05 | 79,467.60 05 | 3.2305 | | 79,548.36 32 |
| Total | 49.2930 | 80.2429 | 291.2532 | 0.8471 | 81.8675 | 2.0044 | 83.8719 | 21.8962 | 1.9706 | 23.8667 | 0.0000 | 92,741.36 16 | 92,741.36 16 | 3.7014 | 0.2392 | 92,905.16 49 |

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 | 35.4553 | 1.4583 | 126.4174 | 6.6500e- 003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | 0.0000 | 227.1562 | 227.1562 | 0.2102 | 0.0000 | 232.4111 |
| Energy | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.877 1 | 6,543.877 1 | 0.1254 | 0.1200 | 6,582.764 0 |
| Mobile | 12.4712 | 68.5067 | 159.5085 | 0.7752 | 81.8675 | 0.4758 | 82.3433 | 21.8962 | 0.4419 | 22.3381 | | 79,467.60 05 | 79,467.60 05 | 3.2305 | | 79,548.36 32 |
| Total | 48.5263 | 75.1453 | 288.5056 | 0.8145 | 81.8675 | 1.5917 | 83.4592 | 21.8962 | 1.5578 | 23.4540 | 0.0000 | 86,238.63 37 | 86,238.63 37 | 3.5661 | 0.1200 | 86,363.53 83 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|------|
| Percent Reduction | 1.56 | 6.35 | 0.94 | 3.84 | 0.00 | 20.59 | 0.49 | 0.00 | 20.95 | 1.73 | 0.00 | 7.01 | 7.01 | 3.65 | 49.84 | 7.04 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/1/2022 | 5 | 2 | |
| 3 | Grading | Grading | 2/2/2022 | 2/7/2022 | 5 | 4 | |
| 4 | Building Construction | Building Construction | 2/8/2022 | 11/14/2022 | 5 | 200 | |
| 5 | Paving | Paving | 11/15/2022 | 11/28/2022 | 5 | 10 | |
| 6 | Architectural Coating | Architectural Coating | 11/29/2022 | 12/12/2022 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 18.94

Residential Indoor: 2,276,813; Residential Outdoor: 758,938; Non-Residential Indoor: 485,637; Non-Residential Outdoor: 161,879; Striped Parking Area: 50,496 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 1,298.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,563.00 | 355.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 313.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 14.0503 | 0.0000 | 14.0503 | 2.1273 | 0.0000 | 2.1273 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 14.0503 | 1.2427 | 15.2930 | 2.1273 | 1.1553 | 3.2826 | | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4600 | 15.3333 | 3.6796 | 0.0482 | 1.1340 | 0.0445 | 1.1785 | 0.3108 | 0.0425 | 0.3533 | | 5,220.9667 | 5,220.9667 | 0.3671 | | 5,230.1446 |
| 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 | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.5251 | 15.3739 | 4.1483 | 0.0497 | 1.3017 | 0.0457 | 1.3474 | 0.3553 | 0.0436 | 0.3989 | | 5,370.7472 | 5,370.7472 | 0.3709 | | 5,380.0190 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3227 | 0.0000 | 6.3227 | 0.9573 | 0.0000 | 0.9573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 6.3227 | 0.0616 | 6.3843 | 0.9573 | 0.0616 | 1.0190 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4600 | 15.3333 | 3.6796 | 0.0482 | 1.1340 | 0.0445 | 1.1785 | 0.3108 | 0.0425 | 0.3533 | | 5,220.9667 | 5,220.9667 | 0.3671 | | 5,230.1446 |
| 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 | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.5251 | 15.3739 | 4.1483 | 0.0497 | 1.3017 | 0.0457 | 1.3474 | 0.3553 | 0.0436 | 0.3989 | | 5,370.7472 | 5,370.7472 | 0.3709 | | 5,380.0190 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |
| Total | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |
| Total | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 78.9315 | 0.0000 | 78.9315 | 11.1827 | 0.0000 | 11.1827 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 78.9315 | 1.6349 | 80.5664 | 11.1827 | 1.5041 | 12.6868 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |
| Total | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |

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 | | | | | 35.5192 | 0.0000 | 35.5192 | 5.0322 | 0.0000 | 5.0322 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 35.5192 | 0.1015 | 35.6207 | 5.0322 | 0.1015 | 5.1338 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |
| Total | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.9755 | 32.0109 | 8.5020 | 0.0872 | 2.2720 | 0.0610 | 2.3331 | 0.6541 | 0.0584 | 0.7125 | | 9,307.8949 | 9,307.8949 | 0.6045 | | 9,323.0073 |
| Worker | 6.7792 | 4.2301 | 48.8396 | 0.1566 | 17.4707 | 0.1249 | 17.5956 | 4.6333 | 0.1150 | 4.7483 | | 15,607.1258 | 15,607.1258 | 0.3918 | | 15,616.9200 |
| Total | 7.7547 | 36.2410 | 57.3416 | 0.2437 | 19.7427 | 0.1859 | 19.9286 | 5.2874 | 0.1734 | 5.4608 | | 24,915.0208 | 24,915.0208 | 0.9963 | | 24,939.9273 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.9755 | 32.0109 | 8.5020 | 0.0872 | 2.2720 | 0.0610 | 2.3331 | 0.6541 | 0.0584 | 0.7125 | | 9,307.8949 | 9,307.8949 | 0.6045 | | 9,323.0073 |
| Worker | 6.7792 | 4.2301 | 48.8396 | 0.1566 | 17.4707 | 0.1249 | 17.5956 | 4.6333 | 0.1150 | 4.7483 | | 15,607.1258 | 15,607.1258 | 0.3918 | | 15,616.9200 |
| Total | 7.7547 | 36.2410 | 57.3416 | 0.2437 | 19.7427 | 0.1859 | 19.9286 | 5.2874 | 0.1734 | 5.4608 | | 24,915.0208 | 24,915.0208 | 0.9963 | | 24,939.9273 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 4.9623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 6.0651 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 4.9623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 5.2428 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1,027.0639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 1,027.2684 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3576 | 0.8471 | 9.7804 | 0.0314 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,125.419 3 | 3,125.419 3 | 0.0785 | | 3,127.380 7 |
| Total | 1.3576 | 0.8471 | 9.7804 | 0.0314 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,125.419 3 | 3,125.419 3 | 0.0785 | | 3,127.380 7 |

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 | 1,027.063 9 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e- 003 | | 3.9600e- 003 | 3.9600e- 003 | | 3.9600e- 003 | 3.9600e- 003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 1,027.093 6 | 0.1288 | 1.8324 | 2.9700e- 003 | | 3.9600e- 003 | 3.9600e- 003 | | 3.9600e- 003 | 3.9600e- 003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.3576 | 0.8471 | 9.7804 | 0.0314 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,125.419 3 | 3,125.419 3 | 0.0785 | | 3,127.380 7 |
| Total | 1.3576 | 0.8471 | 9.7804 | 0.0314 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,125.419 3 | 3,125.419 3 | 0.0785 | | 3,127.380 7 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 12.4712 | 68.5067 | 159.5085 | 0.7752 | 81.8675 | 0.4758 | 82.3433 | 21.8962 | 0.4419 | 22.3381 | | 79,467.6005 | 79,467.6005 | 3.2305 | | 79,548.3632 |
| Unmitigated | 12.4712 | 68.5067 | 159.5085 | 0.7752 | 81.8675 | 0.4758 | 82.3433 | 21.8962 | 0.4419 | 22.3381 | | 79,467.6005 | 79,467.6005 | 3.2305 | | 79,548.3632 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 5,161.80 | 6,120.42 | 4485.85 | 17,776,644 | 17,776,644 |
| Condo/Townhouse | 1,783.67 | 1,740.69 | 1485.88 | 5,928,720 | 5,928,720 |
| General Office Building | 3,571.07 | 796.45 | 339.95 | 8,740,174 | 8,740,174 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 10,516.54 | 8,657.56 | 6,311.68 | 32,445,538 | 32,445,538 |

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 High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8771 | 6,543.8771 | 0.1254 | 0.1200 | 6,582.7640 |
| NaturalGas Unmitigated | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8771 | 6,543.8771 | 0.1254 | 0.1200 | 6,582.7640 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 High Rise | 31034.6 | 0.3347 | 2.8601 | 1.2170 | 0.0183 | | 0.2312 | 0.2312 | | 0.2312 | 0.2312 | | 3,651.1263 | 3,651.1263 | 0.0700 | 0.0669 | 3,672.8231 |
| Condo/Townhouse | 15354.6 | 0.1656 | 1.4150 | 0.6021 | 9.0300e-003 | | 0.1144 | 0.1144 | | 0.1144 | 0.1144 | | 1,806.4266 | 1,806.4266 | 0.0346 | 0.0331 | 1,817.1613 |
| General Office Building | 9233.76 | 0.0996 | 0.9053 | 0.7604 | 5.4300e-003 | | 0.0688 | 0.0688 | | 0.0688 | 0.0688 | | 1,086.3242 | 1,086.3242 | 0.0208 | 0.0199 | 1,092.7797 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8770 | 6,543.8770 | 0.1254 | 0.1200 | 6,582.7640 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 31.0346 | 0.3347 | 2.8601 | 1.2170 | 0.0183 | | 0.2312 | 0.2312 | | 0.2312 | 0.2312 | | 3,651.1263 | 3,651.1263 | 0.0700 | 0.0669 | 3,672.8231 |
| Condo/Townhouse | 15.3546 | 0.1656 | 1.4150 | 0.6021 | 9.0300e-003 | | 0.1144 | 0.1144 | | 0.1144 | 0.1144 | | 1,806.4266 | 1,806.4266 | 0.0346 | 0.0331 | 1,817.1613 |
| General Office Building | 9.23376 | 0.0996 | 0.9053 | 0.7604 | 5.4300e-003 | | 0.0688 | 0.0688 | | 0.0688 | 0.0688 | | 1,086.3242 | 1,086.3242 | 0.0208 | 0.0199 | 1,092.7797 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8770 | 6,543.8770 | 0.1254 | 0.1200 | 6,582.7640 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Leafblower
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 35.4553 | 1.4583 | 126.4174 | 6.6500e-003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | 0.0000 | 227.1562 | 227.1562 | 0.2102 | 0.0000 | 232.4111 |
| Unmitigated | 36.2220 | 6.5559 | 129.1651 | 0.0392 | | 1.1142 | 1.1142 | | 1.1142 | 1.1142 | 0.0000 | 6,729.8841 | 6,729.8841 | 0.3454 | 0.1192 | 6,774.0377 |

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 | 2.8139 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 28.9707 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.5959 | 5.0926 | 2.1671 | 0.0325 | | 0.4117 | 0.4117 | | 0.4117 | 0.4117 | 0.0000 | 6,501.1765 | 6,501.1765 | 0.1246 | 0.1192 | 6,539.8097 |
| Landscaping | 3.8415 | 1.4633 | 126.9980 | 6.7100e-003 | | 0.7024 | 0.7024 | | 0.7024 | 0.7024 | | 228.7077 | 228.7077 | 0.2208 | | 234.2280 |
| Total | 36.2220 | 6.5559 | 129.1651 | 0.0392 | | 1.1142 | 1.1142 | | 1.1142 | 1.1142 | 0.0000 | 6,729.8841 | 6,729.8841 | 0.3454 | 0.1192 | 6,774.0377 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 2.8139 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 28.9707 | | | | | 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 | 3.6707 | 1.4583 | 126.4174 | 6.6500e-003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | | 227.1562 | 227.1562 | 0.2102 | | 232.4111 |
| Total | 35.4553 | 1.4583 | 126.4174 | 6.6500e-003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | 0.0000 | 227.1562 | 227.1562 | 0.2102 | 0.0000 | 232.4111 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Winter

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

Santa Monica Housing Element - Continuous - Future Project
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 323.76 | 1000sqft | 7.43 | 323,758.00 | 0 |
| Parking Lot | 2,104.00 | Space | 18.94 | 841,600.00 | 0 |
| Apartments High Rise | 1,229.00 | Dwelling Unit | 19.82 | 899,482.00 | 3515 |
| Condo/Townhouse | 307.00 | Dwelling Unit | 19.19 | 224,870.00 | 878 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

Project Characteristics - File Name Future Project Continuous
 Continuous Development Scenario - Future Project
 1 Development per year of 1,536 DUs for 8 years

Land Use - 1,536 DUs at 732 ft2/DU = 1,124,352 ft2
 Assume 20% Condo, 80% apts high rise
 Commercial 323,758 ft2
 Parking 1.37/DU = 2,104 spaces

Construction Phase - Adjusted based on total DU

Demolition - Demolition 185.9 ft2/DU = 285,473

Woodstoves - No wood stoves
 20% gas fireplaces

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
 No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot buidling footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water effcent landscape and irrigation

Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblFireplaces | NumberGas | 1,044.65 | 246.00 |
| tblFireplaces | NumberGas | 260.95 | 61.00 |
| tblFireplaces | NumberNoFireplace | 122.90 | 983.00 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

| | | | |
|---------------|--------------------|--------------|------------|
| tblFireplaces | NumberNoFireplace | 30.70 | 246.00 |
| tblFireplaces | NumberWood | 61.45 | 0.00 |
| tblFireplaces | NumberWood | 15.35 | 0.00 |
| tblGrading | AcresOfGrading | 10.00 | 275.00 |
| tblLandUse | LandUseSquareFeet | 323,760.00 | 323,758.00 |
| tblLandUse | LandUseSquareFeet | 1,229,000.00 | 899,482.00 |
| tblLandUse | LandUseSquareFeet | 307,000.00 | 224,870.00 |
| tblWoodstoves | NumberCatalytic | 61.45 | 0.00 |
| tblWoodstoves | NumberCatalytic | 15.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 15.35 | 0.00 |

2.0 Emissions Summary

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 36.2220 | 6.5559 | 129.1651 | 0.0392 | | 1.1142 | 1.1142 | | 1.1142 | 1.1142 | 0.0000 | 6,729.884 1 | 6,729.884 1 | 0.3454 | 0.1192 | 6,774.037 7 |
| Energy | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.877 1 | 6,543.877 1 | 0.1254 | 0.1200 | 6,582.764 0 |
| Mobile | 13.1848 | 67.7813 | 170.9747 | 0.8174 | 81.8675 | 0.4743 | 82.3419 | 21.8962 | 0.4405 | 22.3367 | | 83,722.15 90 | 83,722.15 90 | 3.2130 | | 83,802.48 49 |
| Total | 50.0066 | 79.5176 | 302.7194 | 0.8893 | 81.8675 | 2.0030 | 83.8705 | 21.8962 | 1.9692 | 23.8653 | 0.0000 | 96,995.92 02 | 96,995.92 02 | 3.6839 | 0.2392 | 97,159.28 66 |

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 | 35.4553 | 1.4583 | 126.4174 | 6.6500e- 003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | 0.0000 | 227.1562 | 227.1562 | 0.2102 | 0.0000 | 232.4111 |
| Energy | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.877 1 | 6,543.877 1 | 0.1254 | 0.1200 | 6,582.764 0 |
| Mobile | 13.1848 | 67.7813 | 170.9747 | 0.8174 | 81.8675 | 0.4743 | 82.3419 | 21.8962 | 0.4405 | 22.3367 | | 83,722.15 90 | 83,722.15 90 | 3.2130 | | 83,802.48 49 |
| Total | 49.2399 | 74.4200 | 299.9718 | 0.8567 | 81.8675 | 1.5902 | 83.4577 | 21.8962 | 1.5564 | 23.4526 | 0.0000 | 90,493.19 23 | 90,493.19 23 | 3.5487 | 0.1200 | 90,617.66 00 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 1.53 | 6.41 | 0.91 | 3.66 | 0.00 | 20.61 | 0.49 | 0.00 | 20.96 | 1.73 | 0.00 | 6.70 | 6.70 | 3.67 | 49.84 | 6.73 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/1/2022 | 5 | 2 | |
| 3 | Grading | Grading | 2/2/2022 | 2/7/2022 | 5 | 4 | |
| 4 | Building Construction | Building Construction | 2/8/2022 | 11/14/2022 | 5 | 200 | |
| 5 | Paving | Paving | 11/15/2022 | 11/28/2022 | 5 | 10 | |
| 6 | Architectural Coating | Architectural Coating | 11/29/2022 | 12/12/2022 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 18.94

Residential Indoor: 2,276,813; Residential Outdoor: 758,938; Non-Residential Indoor: 485,637; Non-Residential Outdoor: 161,879; Striped Parking Area: 50,496 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 1,298.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,563.00 | 355.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 313.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 14.0503 | 0.0000 | 14.0503 | 2.1273 | 0.0000 | 2.1273 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 14.0503 | 1.2427 | 15.2930 | 2.1273 | 1.1553 | 3.2826 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4472 | 15.1710 | 3.4360 | 0.0491 | 1.1340 | 0.0438 | 1.1778 | 0.3108 | 0.0419 | 0.3527 | | 5,320.2096 | 5,320.2096 | 0.3527 | | 5,329.0264 |
| 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 | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.5066 | 15.2080 | 3.9585 | 0.0507 | 1.3017 | 0.0450 | 1.3467 | 0.3553 | 0.0430 | 0.3982 | | 5,480.3682 | 5,480.3682 | 0.3567 | | 5,489.2859 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.3227 | 0.0000 | 6.3227 | 0.9573 | 0.0000 | 0.9573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 6.3227 | 0.0616 | 6.3843 | 0.9573 | 0.0616 | 1.0190 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4472 | 15.1710 | 3.4360 | 0.0491 | 1.1340 | 0.0438 | 1.1778 | 0.3108 | 0.0419 | 0.3527 | | 5,320.2096 | 5,320.2096 | 0.3527 | | 5,329.0264 |
| 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 | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.5066 | 15.2080 | 3.9585 | 0.0507 | 1.3017 | 0.0450 | 1.3467 | 0.3553 | 0.0430 | 0.3982 | | 5,480.3682 | 5,480.3682 | 0.3567 | | 5,489.2859 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |
| Total | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |
| Total | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 78.9315 | 0.0000 | 78.9315 | 11.1827 | 0.0000 | 11.1827 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 78.9315 | 1.6349 | 80.5664 | 11.1827 | 1.5041 | 12.6868 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |
| Total | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |

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 | | | | | 35.5192 | 0.0000 | 35.5192 | 5.0322 | 0.0000 | 5.0322 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 35.5192 | 0.1015 | 35.6207 | 5.0322 | 0.1015 | 5.1338 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |
| Total | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.9264 | 32.1393 | 7.5934 | 0.0897 | 2.2720 | 0.0591 | 2.3311 | 0.6541 | 0.0565 | 0.7106 | | 9,587.0989 | 9,587.0989 | 0.5632 | | 9,601.1793 |
| Worker | 6.1888 | 3.8653 | 54.4476 | 0.1675 | 17.4707 | 0.1249 | 17.5956 | 4.6333 | 0.1150 | 4.7483 | | 16,688.5250 | 16,688.5250 | 0.4207 | | 16,699.0418 |
| Total | 7.1151 | 36.0045 | 62.0410 | 0.2572 | 19.7427 | 0.1840 | 19.9267 | 5.2874 | 0.1715 | 5.4589 | | 26,275.6239 | 26,275.6239 | 0.9839 | | 26,300.2210 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.9264 | 32.1393 | 7.5934 | 0.0897 | 2.2720 | 0.0591 | 2.3311 | 0.6541 | 0.0565 | 0.7106 | | 9,587.0989 | 9,587.0989 | 0.5632 | | 9,601.1793 |
| Worker | 6.1888 | 3.8653 | 54.4476 | 0.1675 | 17.4707 | 0.1249 | 17.5956 | 4.6333 | 0.1150 | 4.7483 | | 16,688.5250 | 16,688.5250 | 0.4207 | | 16,699.0418 |
| Total | 7.1151 | 36.0045 | 62.0410 | 0.2572 | 19.7427 | 0.1840 | 19.9267 | 5.2874 | 0.1715 | 5.4589 | | 26,275.6239 | 26,275.6239 | 0.9839 | | 26,300.2210 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.1028 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 4.9623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 6.0651 | 11.1249 | 14.5805 | 0.0228 | | 0.5679 | 0.5679 | | 0.5225 | 0.5225 | | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |
| Paving | 4.9623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 5.2428 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,207.6603 | 2,207.6603 | 0.7140 | | 2,225.5104 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1,027.0639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 1,027.2684 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.2393 | 0.7741 | 10.9035 | 0.0335 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,341.9759 | 3,341.9759 | 0.0842 | | 3,344.0819 |
| Total | 1.2393 | 0.7741 | 10.9035 | 0.0335 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,341.9759 | 3,341.9759 | 0.0842 | | 3,344.0819 |

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 | 1,027.0639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| Total | 1,027.0936 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 1.2393 | 0.7741 | 10.9035 | 0.0335 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,341.9759 | 3,341.9759 | 0.0842 | | 3,344.0819 |
| Total | 1.2393 | 0.7741 | 10.9035 | 0.0335 | 3.4986 | 0.0250 | 3.5236 | 0.9279 | 0.0230 | 0.9509 | | 3,341.9759 | 3,341.9759 | 0.0842 | | 3,344.0819 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 13.1848 | 67.7813 | 170.9747 | 0.8174 | 81.8675 | 0.4743 | 82.3419 | 21.8962 | 0.4405 | 22.3367 | | 83,722.15 90 | 83,722.15 90 | 3.2130 | | 83,802.48 49 |
| Unmitigated | 13.1848 | 67.7813 | 170.9747 | 0.8174 | 81.8675 | 0.4743 | 82.3419 | 21.8962 | 0.4405 | 22.3367 | | 83,722.15 90 | 83,722.15 90 | 3.2130 | | 83,802.48 49 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 5,161.80 | 6,120.42 | 4485.85 | 17,776,644 | 17,776,644 |
| Condo/Townhouse | 1,783.67 | 1,740.69 | 1485.88 | 5,928,720 | 5,928,720 |
| General Office Building | 3,571.07 | 796.45 | 339.95 | 8,740,174 | 8,740,174 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 10,516.54 | 8,657.56 | 6,311.68 | 32,445,538 | 32,445,538 |

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 High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8771 | 6,543.8771 | 0.1254 | 0.1200 | 6,582.7640 |
| NaturalGas Unmitigated | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8771 | 6,543.8771 | 0.1254 | 0.1200 | 6,582.7640 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 High Rise | 31034.6 | 0.3347 | 2.8601 | 1.2170 | 0.0183 | | 0.2312 | 0.2312 | | 0.2312 | 0.2312 | | 3,651.1263 | 3,651.1263 | 0.0700 | 0.0669 | 3,672.8231 |
| Condo/Townhouse | 15354.6 | 0.1656 | 1.4150 | 0.6021 | 9.0300e-003 | | 0.1144 | 0.1144 | | 0.1144 | 0.1144 | | 1,806.4266 | 1,806.4266 | 0.0346 | 0.0331 | 1,817.1613 |
| General Office Building | 9233.76 | 0.0996 | 0.9053 | 0.7604 | 5.4300e-003 | | 0.0688 | 0.0688 | | 0.0688 | 0.0688 | | 1,086.3242 | 1,086.3242 | 0.0208 | 0.0199 | 1,092.7797 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8770 | 6,543.8770 | 0.1254 | 0.1200 | 6,582.7640 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 31.0346 | 0.3347 | 2.8601 | 1.2170 | 0.0183 | | 0.2312 | 0.2312 | | 0.2312 | 0.2312 | | 3,651.1263 | 3,651.1263 | 0.0700 | 0.0669 | 3,672.8231 |
| Condo/Townhouse | 15.3546 | 0.1656 | 1.4150 | 0.6021 | 9.0300e-003 | | 0.1144 | 0.1144 | | 0.1144 | 0.1144 | | 1,806.4266 | 1,806.4266 | 0.0346 | 0.0331 | 1,817.1613 |
| General Office Building | 9.23376 | 0.0996 | 0.9053 | 0.7604 | 5.4300e-003 | | 0.0688 | 0.0688 | | 0.0688 | 0.0688 | | 1,086.3242 | 1,086.3242 | 0.0208 | 0.0199 | 1,092.7797 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.5999 | 5.1804 | 2.5796 | 0.0327 | | 0.4145 | 0.4145 | | 0.4145 | 0.4145 | | 6,543.8770 | 6,543.8770 | 0.1254 | 0.1200 | 6,582.7640 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Leafblower
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 35.4553 | 1.4583 | 126.4174 | 6.6500e-003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | 0.0000 | 227.1562 | 227.1562 | 0.2102 | 0.0000 | 232.4111 |
| Unmitigated | 36.2220 | 6.5559 | 129.1651 | 0.0392 | | 1.1142 | 1.1142 | | 1.1142 | 1.1142 | 0.0000 | 6,729.884 1 | 6,729.884 1 | 0.3454 | 0.1192 | 6,774.037 7 |

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 | 2.8139 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 28.9707 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.5959 | 5.0926 | 2.1671 | 0.0325 | | 0.4117 | 0.4117 | | 0.4117 | 0.4117 | 0.0000 | 6,501.176 5 | 6,501.176 5 | 0.1246 | 0.1192 | 6,539.809 7 |
| Landscaping | 3.8415 | 1.4633 | 126.9980 | 6.7100e-003 | | 0.7024 | 0.7024 | | 0.7024 | 0.7024 | | 228.7077 | 228.7077 | 0.2208 | | 234.2280 |
| Total | 36.2220 | 6.5559 | 129.1651 | 0.0392 | | 1.1142 | 1.1142 | | 1.1142 | 1.1142 | 0.0000 | 6,729.884 1 | 6,729.884 1 | 0.3454 | 0.1192 | 6,774.037 7 |

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, 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 | 2.8139 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 28.9707 | | | | | 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 | 3.6707 | 1.4583 | 126.4174 | 6.6500e-003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | | 227.1562 | 227.1562 | 0.2102 | | 232.4111 |
| Total | 35.4553 | 1.4583 | 126.4174 | 6.6500e-003 | | 0.7014 | 0.7014 | | 0.7014 | 0.7014 | 0.0000 | 227.1562 | 227.1562 | 0.2102 | 0.0000 | 232.4111 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Summer

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Annual

Santa Monica Housing Element - Continuous - Future Project
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 323.76 | 1000sqft | 7.43 | 323,758.00 | 0 |
| Parking Lot | 2,104.00 | Space | 18.94 | 841,600.00 | 0 |
| Apartments High Rise | 1,229.00 | Dwelling Unit | 19.82 | 899,482.00 | 3515 |
| Condo/Townhouse | 307.00 | Dwelling Unit | 19.19 | 224,870.00 | 878 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Continuous - Future Project - South Coast AQMD Air District, Annual

Project Characteristics - File Name Future Project Continuous
 Continuous Development Scenario - Future Project
 1 Development per year of 1,536 DUs for 8 years

Land Use - 1,536 DUs at 732 ft2/DU = 1,124,352 ft2
 Assume 20% Condo, 80% apts high rise
 Commercial 323,758 ft2
 Parking 1.37/DU = 2,104 spaces

Construction Phase - Adjusted based on total DU

Demolition - Demolition 185.9 ft2/DU = 285,473

Woodstoves - No wood stoves
 20% gas fireplaces

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
 Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
 No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot buidling footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water effcent landscape and irrigation

Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |

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| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblFireplaces | NumberGas | 1,044.65 | 246.00 |
| tblFireplaces | NumberGas | 260.95 | 61.00 |
| tblFireplaces | NumberNoFireplace | 122.90 | 983.00 |

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| | | | |
|---------------|--------------------|--------------|------------|
| tblFireplaces | NumberNoFireplace | 30.70 | 246.00 |
| tblFireplaces | NumberWood | 61.45 | 0.00 |
| tblFireplaces | NumberWood | 15.35 | 0.00 |
| tblGrading | AcresOfGrading | 10.00 | 275.00 |
| tblLandUse | LandUseSquareFeet | 323,760.00 | 323,758.00 |
| tblLandUse | LandUseSquareFeet | 1,229,000.00 | 899,482.00 |
| tblLandUse | LandUseSquareFeet | 307,000.00 | 224,870.00 |
| tblWoodstoves | NumberCatalytic | 61.45 | 0.00 |
| tblWoodstoves | NumberCatalytic | 15.35 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 61.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 15.35 | 0.00 |

2.0 Emissions Summary

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 1-3-2022 | 4-2-2022 | 1.7362 | 1.0805 |
| 2 | 4-3-2022 | 7-2-2022 | 1.9643 | 1.4847 |
| 3 | 7-3-2022 | 9-30-2022 | 1.9428 | 1.4684 |
| | | Highest | 1.9643 | 1.4847 |

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 | 6.2883 | 0.2466 | 15.9018 | 1.2500e-003 | | 0.0930 | 0.0930 | | 0.0930 | 0.0930 | 0.0000 | 99.6571 | 99.6571 | 0.0265 | 1.3500e-003 | 100.7212 |
| Energy | 0.1095 | 0.9454 | 0.4708 | 5.9700e-003 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | 0.0000 | 4,555.3712 | 4,555.3712 | 0.1641 | 0.0495 | 4,574.2305 |
| Mobile | 1.8721 | 10.6584 | 24.8442 | 0.1206 | 12.3246 | 0.0727 | 12.3974 | 3.3013 | 0.0675 | 3.3689 | 0.0000 | 11,212.4612 | 11,212.4612 | 0.4455 | 0.0000 | 11,223.5985 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 204.5459 | 0.0000 | 204.5459 | 12.0883 | 0.0000 | 506.7537 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 50.0055 | 1,002.1110 | 1,052.1164 | 5.1774 | 0.1298 | 1,220.2419 |
| Total | 8.2699 | 11.8504 | 41.2168 | 0.1278 | 12.3246 | 0.2413 | 12.5659 | 3.3013 | 0.2361 | 3.5375 | 254.5513 | 16,869.6005 | 17,124.1519 | 17.9018 | 0.1807 | 17,625.5457 |

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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 | 6.2595 | 0.1823 | 15.8022 | 8.3000e-004 | | 0.0877 | 0.0877 | | 0.0877 | 0.0877 | 0.0000 | 25.7591 | 25.7591 | 0.0238 | 0.0000 | 26.3550 |
| Energy | 0.1095 | 0.9454 | 0.4708 | 5.9700e-003 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | 0.0000 | 1,083.4122 | 1,083.4122 | 0.0208 | 0.0199 | 1,089.8504 |
| Mobile | 1.8721 | 10.6584 | 24.8442 | 0.1206 | 12.3246 | 0.0727 | 12.3974 | 3.3013 | 0.0675 | 3.3689 | 0.0000 | 11,212.4612 | 11,212.4612 | 0.4455 | 0.0000 | 11,223.5985 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 204.5459 | 0.0000 | 204.5459 | 12.0883 | 0.0000 | 506.7537 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 40.0044 | 850.0863 | 890.0906 | 4.1439 | 0.1043 | 1,024.7641 |
| Total | 8.2411 | 11.7861 | 41.1171 | 0.1274 | 12.3246 | 0.2360 | 12.5607 | 3.3013 | 0.2309 | 3.5322 | 244.5502 | 13,171.7188 | 13,416.2690 | 16.7223 | 0.1241 | 13,871.3217 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|-------|
| Percent Reduction | 0.35 | 0.54 | 0.24 | 0.33 | 0.00 | 2.18 | 0.04 | 0.00 | 2.23 | 0.15 | 3.93 | 21.92 | 21.65 | 6.59 | 31.30 | 21.30 |

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 1/28/2022 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 1/29/2022 | 2/1/2022 | 5 | 2 | |
| 3 | Grading | Grading | 2/2/2022 | 2/7/2022 | 5 | 4 | |
| 4 | Building Construction | Building Construction | 2/8/2022 | 11/14/2022 | 5 | 200 | |
| 5 | Paving | Paving | 11/15/2022 | 11/28/2022 | 5 | 10 | |
| 6 | Architectural Coating | Architectural Coating | 11/29/2022 | 12/12/2022 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 18.94

Residential Indoor: 2,276,813; Residential Outdoor: 758,938; Non-Residential Indoor: 485,637; Non-Residential Outdoor: 161,879; Striped Parking Area: 50,496 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 1,298.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 1,563.00 | 355.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 313.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1405 | 0.0000 | 0.1405 | 0.0213 | 0.0000 | 0.0213 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0264 | 0.2572 | 0.2059 | 3.9000e-004 | | 0.0124 | 0.0124 | | 0.0116 | 0.0116 | 0.0000 | 33.9902 | 33.9902 | 9.5500e-003 | 0.0000 | 34.2289 |
| Total | 0.0264 | 0.2572 | 0.2059 | 3.9000e-004 | 0.1405 | 0.0124 | 0.1529 | 0.0213 | 0.0116 | 0.0328 | 0.0000 | 33.9902 | 33.9902 | 9.5500e-003 | 0.0000 | 34.2289 |

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.5300e-003 | 0.1561 | 0.0354 | 4.9000e-004 | 0.0112 | 4.4000e-004 | 0.0116 | 3.0600e-003 | 4.2000e-004 | 3.4800e-003 | 0.0000 | 47.8860 | 47.8860 | 3.2600e-003 | 0.0000 | 47.9674 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.9000e-004 | 4.2000e-004 | 4.8300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.3821 | 1.3821 | 3.0000e-005 | 0.0000 | 1.3830 |
| Total | 5.1200e-003 | 0.1565 | 0.0403 | 5.1000e-004 | 0.0128 | 4.5000e-004 | 0.0133 | 3.5000e-003 | 4.3000e-004 | 3.9300e-003 | 0.0000 | 49.2681 | 49.2681 | 3.2900e-003 | 0.0000 | 49.3504 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0632 | 0.0000 | 0.0632 | 9.5700e-003 | 0.0000 | 9.5700e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.6200e-003 | 0.0200 | 0.2328 | 3.9000e-004 | | 6.2000e-004 | 6.2000e-004 | | 6.2000e-004 | 6.2000e-004 | 0.0000 | 33.9902 | 33.9902 | 9.5500e-003 | 0.0000 | 34.2289 |
| Total | 4.6200e-003 | 0.0200 | 0.2328 | 3.9000e-004 | 0.0632 | 6.2000e-004 | 0.0639 | 9.5700e-003 | 6.2000e-004 | 0.0102 | 0.0000 | 33.9902 | 33.9902 | 9.5500e-003 | 0.0000 | 34.2289 |

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3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.5300e-003 | 0.1561 | 0.0354 | 4.9000e-004 | 0.0112 | 4.4000e-004 | 0.0116 | 3.0600e-003 | 4.2000e-004 | 3.4800e-003 | 0.0000 | 47.8860 | 47.8860 | 3.2600e-003 | 0.0000 | 47.9674 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.9000e-004 | 4.2000e-004 | 4.8300e-003 | 2.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.3821 | 1.3821 | 3.0000e-005 | 0.0000 | 1.3830 |
| Total | 5.1200e-003 | 0.1565 | 0.0403 | 5.1000e-004 | 0.0128 | 4.5000e-004 | 0.0133 | 3.5000e-003 | 4.3000e-004 | 3.9300e-003 | 0.0000 | 49.2681 | 49.2681 | 3.2900e-003 | 0.0000 | 49.3504 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0181 | 0.0000 | 0.0181 | 9.9300e-003 | 0.0000 | 9.9300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.1700e-003 | 0.0331 | 0.0197 | 4.0000e-005 | | 1.6100e-003 | 1.6100e-003 | | 1.4800e-003 | 1.4800e-003 | 0.0000 | 3.3439 | 3.3439 | 1.0800e-003 | 0.0000 | 3.3710 |
| Total | 3.1700e-003 | 0.0331 | 0.0197 | 4.0000e-005 | 0.0181 | 1.6100e-003 | 0.0197 | 9.9300e-003 | 1.4800e-003 | 0.0114 | 0.0000 | 3.3439 | 3.3439 | 1.0800e-003 | 0.0000 | 3.3710 |

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 7.0000e-005 | 5.0000e-005 | 5.8000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 2.0000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.1659 | 0.1659 | 0.0000 | 0.0000 | 0.1660 |
| Total | 7.0000e-005 | 5.0000e-005 | 5.8000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 2.0000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.1659 | 0.1659 | 0.0000 | 0.0000 | 0.1660 |

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 | | | | | 8.1300e-003 | 0.0000 | 8.1300e-003 | 4.4700e-003 | 0.0000 | 4.4700e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.7000e-004 | 2.0200e-003 | 0.0209 | 4.0000e-005 | | 6.0000e-005 | 6.0000e-005 | | 6.0000e-005 | 6.0000e-005 | 0.0000 | 3.3439 | 3.3439 | 1.0800e-003 | 0.0000 | 3.3710 |
| Total | 4.7000e-004 | 2.0200e-003 | 0.0209 | 4.0000e-005 | 8.1300e-003 | 6.0000e-005 | 8.1900e-003 | 4.4700e-003 | 6.0000e-005 | 4.5300e-003 | 0.0000 | 3.3439 | 3.3439 | 1.0800e-003 | 0.0000 | 3.3710 |

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 7.0000e-005 | 5.0000e-005 | 5.8000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 2.0000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.1659 | 0.1659 | 0.0000 | 0.0000 | 0.1660 |
| Total | 7.0000e-005 | 5.0000e-005 | 5.8000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 2.0000e-004 | 5.0000e-005 | 0.0000 | 5.0000e-005 | 0.0000 | 0.1659 | 0.1659 | 0.0000 | 0.0000 | 0.1660 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1579 | 0.0000 | 0.1579 | 0.0224 | 0.0000 | 0.0224 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.2500e-003 | 0.0777 | 0.0581 | 1.2000e-004 | | 3.2700e-003 | 3.2700e-003 | | 3.0100e-003 | 3.0100e-003 | 0.0000 | 10.9069 | 10.9069 | 3.5300e-003 | 0.0000 | 10.9951 |
| Total | 7.2500e-003 | 0.0777 | 0.0581 | 1.2000e-004 | 0.1579 | 3.2700e-003 | 0.1611 | 0.0224 | 3.0100e-003 | 0.0254 | 0.0000 | 10.9069 | 10.9069 | 3.5300e-003 | 0.0000 | 10.9951 |

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3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.1000e-004 | 1.2900e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.3686 | 0.3686 | 1.0000e-005 | 0.0000 | 0.3688 |
| Total | 1.6000e-004 | 1.1000e-004 | 1.2900e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.3686 | 0.3686 | 1.0000e-005 | 0.0000 | 0.3688 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0710 | 0.0000 | 0.0710 | 0.0101 | 0.0000 | 0.0101 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.5200e-003 | 6.6000e-003 | 0.0660 | 1.2000e-004 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 10.9069 | 10.9069 | 3.5300e-003 | 0.0000 | 10.9951 |
| Total | 1.5200e-003 | 6.6000e-003 | 0.0660 | 1.2000e-004 | 0.0710 | 2.0000e-004 | 0.0712 | 0.0101 | 2.0000e-004 | 0.0103 | 0.0000 | 10.9069 | 10.9069 | 3.5300e-003 | 0.0000 | 10.9951 |

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3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6000e-004 | 1.1000e-004 | 1.2900e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.3686 | 0.3686 | 1.0000e-005 | 0.0000 | 0.3688 |
| Total | 1.6000e-004 | 1.1000e-004 | 1.2900e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.3686 | 0.3686 | 1.0000e-005 | 0.0000 | 0.3688 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1706 | 1.5616 | 1.6363 | 2.6900e-003 | | 0.0809 | 0.0809 | | 0.0761 | 0.0761 | 0.0000 | 231.7252 | 231.7252 | 0.0555 | 0.0000 | 233.1131 |
| Total | 0.1706 | 1.5616 | 1.6363 | 2.6900e-003 | | 0.0809 | 0.0809 | | 0.0761 | 0.0761 | 0.0000 | 231.7252 | 231.7252 | 0.0555 | 0.0000 | 233.1131 |

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0947 | 3.2570 | 0.8049 | 8.8600e-003 | 0.2238 | 5.9900e-003 | 0.2298 | 0.0646 | 5.7300e-003 | 0.0703 | 0.0000 | 859.0891 | 859.0891 | 0.0528 | 0.0000 | 860.4077 |
| Worker | 0.6118 | 0.4349 | 5.0293 | 0.0159 | 1.7148 | 0.0125 | 1.7273 | 0.4554 | 0.0115 | 0.4669 | 0.0000 | 1,440.1434 | 1,440.1434 | 0.0362 | 0.0000 | 1,441.0479 |
| Total | 0.7065 | 3.6919 | 5.8342 | 0.0248 | 1.9386 | 0.0185 | 1.9571 | 0.5200 | 0.0172 | 0.5372 | 0.0000 | 2,299.2325 | 2,299.2325 | 0.0889 | 0.0000 | 2,301.4556 |

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 | 0.0328 | 0.2235 | 1.7460 | 2.6900e-003 | | 4.0800e-003 | 4.0800e-003 | | 4.0800e-003 | 4.0800e-003 | 0.0000 | 231.7250 | 231.7250 | 0.0555 | 0.0000 | 233.1128 |
| Total | 0.0328 | 0.2235 | 1.7460 | 2.6900e-003 | | 4.0800e-003 | 4.0800e-003 | | 4.0800e-003 | 4.0800e-003 | 0.0000 | 231.7250 | 231.7250 | 0.0555 | 0.0000 | 233.1128 |

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0947 | 3.2570 | 0.8049 | 8.8600e-003 | 0.2238 | 5.9900e-003 | 0.2298 | 0.0646 | 5.7300e-003 | 0.0703 | 0.0000 | 859.0891 | 859.0891 | 0.0528 | 0.0000 | 860.4077 |
| Worker | 0.6118 | 0.4349 | 5.0293 | 0.0159 | 1.7148 | 0.0125 | 1.7273 | 0.4554 | 0.0115 | 0.4669 | 0.0000 | 1,440.1434 | 1,440.1434 | 0.0362 | 0.0000 | 1,441.0479 |
| Total | 0.7065 | 3.6919 | 5.8342 | 0.0248 | 1.9386 | 0.0185 | 1.9571 | 0.5200 | 0.0172 | 0.5372 | 0.0000 | 2,299.2325 | 2,299.2325 | 0.0889 | 0.0000 | 2,301.4556 |

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 5.5100e-003 | 0.0556 | 0.0729 | 1.1000e-004 | | 2.8400e-003 | 2.8400e-003 | | 2.6100e-003 | 2.6100e-003 | 0.0000 | 10.0138 | 10.0138 | 3.2400e-003 | 0.0000 | 10.0948 |
| Paving | 0.0248 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0303 | 0.0556 | 0.0729 | 1.1000e-004 | | 2.8400e-003 | 2.8400e-003 | | 2.6100e-003 | 2.6100e-003 | 0.0000 | 10.0138 | 10.0138 | 3.2400e-003 | 0.0000 | 10.0948 |

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3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |
| Total | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |

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 | 1.4000e-003 | 6.0800e-003 | 0.0865 | 1.1000e-004 | | 1.9000e-004 | 1.9000e-004 | | 1.9000e-004 | 1.9000e-004 | 0.0000 | 10.0138 | 10.0138 | 3.2400e-003 | 0.0000 | 10.0947 |
| Paving | 0.0248 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0262 | 6.0800e-003 | 0.0865 | 1.1000e-004 | | 1.9000e-004 | 1.9000e-004 | | 1.9000e-004 | 1.9000e-004 | 0.0000 | 10.0138 | 10.0138 | 3.2400e-003 | 0.0000 | 10.0947 |

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3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |
| Total | 2.9000e-004 | 2.1000e-004 | 2.4100e-003 | 1.0000e-005 | 8.2000e-004 | 1.0000e-005 | 8.3000e-004 | 2.2000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.6911 | 0.6911 | 2.0000e-005 | 0.0000 | 0.6915 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 5.1353 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0200e-003 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| Total | 5.1363 | 7.0400e-003 | 9.0700e-003 | 1.0000e-005 | | 4.1000e-004 | 4.1000e-004 | | 4.1000e-004 | 4.1000e-004 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.1300e-003 | 4.3500e-003 | 0.0504 | 1.6000e-004 | 0.0172 | 1.3000e-004 | 0.0173 | 4.5600e-003 | 1.2000e-004 | 4.6800e-003 | 0.0000 | 14.4199 | 14.4199 | 3.6000e-004 | 0.0000 | 14.4289 |
| Total | 6.1300e-003 | 4.3500e-003 | 0.0504 | 1.6000e-004 | 0.0172 | 1.3000e-004 | 0.0173 | 4.5600e-003 | 1.2000e-004 | 4.6800e-003 | 0.0000 | 14.4199 | 14.4199 | 3.6000e-004 | 0.0000 | 14.4289 |

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 | 5.1353 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.5000e-004 | 6.4000e-004 | 9.1600e-003 | 1.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |
| Total | 5.1355 | 6.4000e-004 | 9.1600e-003 | 1.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 1.2766 | 1.2766 | 8.0000e-005 | 0.0000 | 1.2787 |

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.1300e-003 | 4.3500e-003 | 0.0504 | 1.6000e-004 | 0.0172 | 1.3000e-004 | 0.0173 | 4.5600e-003 | 1.2000e-004 | 4.6800e-003 | 0.0000 | 14.4199 | 14.4199 | 3.6000e-004 | 0.0000 | 14.4289 |
| Total | 6.1300e-003 | 4.3500e-003 | 0.0504 | 1.6000e-004 | 0.0172 | 1.3000e-004 | 0.0173 | 4.5600e-003 | 1.2000e-004 | 4.6800e-003 | 0.0000 | 14.4199 | 14.4199 | 3.6000e-004 | 0.0000 | 14.4289 |

4.0 Operational Detail - Mobile

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 | 1.8721 | 10.6584 | 24.8442 | 0.1206 | 12.3246 | 0.0727 | 12.3974 | 3.3013 | 0.0675 | 3.3689 | 0.0000 | 11,212.46 12 | 11,212.46 12 | 0.4455 | 0.0000 | 11,223.59 85 |
| Unmitigated | 1.8721 | 10.6584 | 24.8442 | 0.1206 | 12.3246 | 0.0727 | 12.3974 | 3.3013 | 0.0675 | 3.3689 | 0.0000 | 11,212.46 12 | 11,212.46 12 | 0.4455 | 0.0000 | 11,223.59 85 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 5,161.80 | 6,120.42 | 4485.85 | 17,776,644 | 17,776,644 |
| Condo/Townhouse | 1,783.67 | 1,740.69 | 1485.88 | 5,928,720 | 5,928,720 |
| General Office Building | 3,571.07 | 796.45 | 339.95 | 8,740,174 | 8,740,174 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 10,516.54 | 8,657.56 | 6,311.68 | 32,445,538 | 32,445,538 |

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 High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

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| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 3,471.9590 | 3,471.9590 | 0.1433 | 0.0297 | 3,484.3801 |
| NaturalGas Mitigated | 0.1095 | 0.9454 | 0.4708 | 5.9700e-003 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | 0.0000 | 1,083.4122 | 1,083.4122 | 0.0208 | 0.0199 | 1,089.8504 |
| NaturalGas Unmitigated | 0.1095 | 0.9454 | 0.4708 | 5.9700e-003 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | 0.0000 | 1,083.4122 | 1,083.4122 | 0.0208 | 0.0199 | 1,089.8504 |

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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 High Rise | 1.13276e+007 | 0.0611 | 0.5220 | 0.2221 | 3.3300e-003 | | 0.0422 | 0.0422 | | 0.0422 | 0.0422 | 0.0000 | 604.4849 | 604.4849 | 0.0116 | 0.0111 | 608.0771 |
| Condo/Townhouse | 5.60444e+006 | 0.0302 | 0.2582 | 0.1099 | 1.6500e-003 | | 0.0209 | 0.0209 | | 0.0209 | 0.0209 | 0.0000 | 299.0742 | 299.0742 | 5.7300e-003 | 5.4800e-003 | 300.8514 |
| General Office Building | 3.37032e+006 | 0.0182 | 0.1652 | 0.1388 | 9.9000e-004 | | 0.0126 | 0.0126 | | 0.0126 | 0.0126 | 0.0000 | 179.8532 | 179.8532 | 3.4500e-003 | 3.3000e-003 | 180.9219 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1095 | 0.9454 | 0.4708 | 5.9700e-003 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | 0.0000 | 1,083.4122 | 1,083.4122 | 0.0208 | 0.0199 | 1,089.8504 |

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5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments High Rise | 1.13276e+007 | 0.0611 | 0.5220 | 0.2221 | 3.3300e-003 | | 0.0422 | 0.0422 | | 0.0422 | 0.0422 | 0.0000 | 604.4849 | 604.4849 | 0.0116 | 0.0111 | 608.0771 |
| Condo/Townhouse | 5.60444e+006 | 0.0302 | 0.2582 | 0.1099 | 1.6500e-003 | | 0.0209 | 0.0209 | | 0.0209 | 0.0209 | 0.0000 | 299.0742 | 299.0742 | 5.7300e-003 | 5.4800e-003 | 300.8514 |
| General Office Building | 3.37032e+006 | 0.0182 | 0.1652 | 0.1388 | 9.9000e-004 | | 0.0126 | 0.0126 | | 0.0126 | 0.0126 | 0.0000 | 179.8532 | 179.8532 | 3.4500e-003 | 3.3000e-003 | 180.9219 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1095 | 0.9454 | 0.4708 | 5.9700e-003 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | 0.0000 | 1,083.4122 | 1,083.4122 | 0.0208 | 0.0199 | 1,089.8504 |

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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 High Rise | 4.86694e+006 | 1,550.7108 | 0.0640 | 0.0133 | 1,556.2585 |
| Condo/Townhouse | 1.5297e+006 | 487.3956 | 0.0201 | 4.1600e-003 | 489.1392 |
| General Office Building | 4.20562e+006 | 1,339.9995 | 0.0553 | 0.0115 | 1,344.7934 |
| Parking Lot | 294560 | 93.8531 | 3.8700e-003 | 8.0000e-004 | 94.1889 |
| Total | | 3,471.9590 | 0.1433 | 0.0297 | 3,484.3800 |

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5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments High Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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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 | 6.2595 | 0.1823 | 15.8022 | 8.3000e-004 | | 0.0877 | 0.0877 | | 0.0877 | 0.0877 | 0.0000 | 25.7591 | 25.7591 | 0.0238 | 0.0000 | 26.3550 |
| Unmitigated | 6.2883 | 0.2466 | 15.9018 | 1.2500e-003 | | 0.0930 | 0.0930 | | 0.0930 | 0.0930 | 0.0000 | 99.6571 | 99.6571 | 0.0265 | 1.3500e-003 | 100.7212 |

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 | 0.5135 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 5.2872 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 7.4500e-003 | 0.0637 | 0.0271 | 4.1000e-004 | | 5.1500e-003 | 5.1500e-003 | | 5.1500e-003 | 5.1500e-003 | 0.0000 | 73.7221 | 73.7221 | 1.4100e-003 | 1.3500e-003 | 74.1602 |
| Landscaping | 0.4802 | 0.1829 | 15.8748 | 8.4000e-004 | | 0.0878 | 0.0878 | | 0.0878 | 0.0878 | 0.0000 | 25.9350 | 25.9350 | 0.0250 | 0.0000 | 26.5610 |
| Total | 6.2883 | 0.2466 | 15.9018 | 1.2500e-003 | | 0.0930 | 0.0930 | | 0.0930 | 0.0930 | 0.0000 | 99.6571 | 99.6571 | 0.0265 | 1.3500e-003 | 100.7212 |

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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 | 0.5135 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 5.2872 | | | | | 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 | 0.4588 | 0.1823 | 15.8022 | 8.3000e-004 | | 0.0877 | 0.0877 | | 0.0877 | 0.0877 | 0.0000 | 25.7591 | 25.7591 | 0.0238 | 0.0000 | 26.3550 |
| Total | 6.2595 | 0.1823 | 15.8022 | 8.3000e-004 | | 0.0877 | 0.0877 | | 0.0877 | 0.0877 | 0.0000 | 25.7591 | 25.7591 | 0.0238 | 0.0000 | 26.3550 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------------|--------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 890.0906 | 4.1439 | 0.1043 | 1,024.764 1 |
| Unmitigated | 1,052.116 4 | 5.1774 | 0.1298 | 1,220.241 9 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|------------------------|---------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 80.0743 / 50.4816 | 536.3128 | 2.6303 | 0.0660 | 621.7307 |
| Condo/Townhouse | 20.0023 / 12.6101 | 133.9691 | 0.6570 | 0.0165 | 155.3062 |
| General Office Building | 57.5431 / 35.2683 | 381.8346 | 1.8901 | 0.0474 | 443.2049 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1,052.116 4 | 5.1774 | 0.1298 | 1,220.241 9 |

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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 High Rise | 64.0594 / 47.4022 | 453.8894 | 2.1053 | 0.0530 | 522.3126 |
| Condo/Townhouse | 16.0018 / 11.8409 | 113.3800 | 0.5259 | 0.0132 | 130.4719 |
| General Office Building | 46.0345 / 33.117 | 322.8212 | 1.5128 | 0.0381 | 371.9796 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 890.0906 | 4.1439 | 0.1043 | 1,024.7641 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 204.5459 | 12.0883 | 0.0000 | 506.7537 |
| Unmitigated | 204.5459 | 12.0883 | 0.0000 | 506.7537 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 565.34 | 114.7589 | 6.7821 | 0.0000 | 284.3103 |
| Condo/Townhouse | 141.22 | 28.6664 | 1.6941 | 0.0000 | 71.0198 |
| General Office Building | 301.1 | 61.1206 | 3.6121 | 0.0000 | 151.4237 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 204.5459 | 12.0883 | 0.0000 | 506.7537 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 565.34 | 114.7589 | 6.7821 | 0.0000 | 284.3103 |
| Condo/Townhouse | 141.22 | 28.6664 | 1.6941 | 0.0000 | 71.0198 |
| General Office Building | 301.1 | 61.1206 | 3.6121 | 0.0000 | 151.4237 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 204.5459 | 12.0883 | 0.0000 | 506.7537 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

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South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 1,423.52 | 1000sqft | 32.68 | 1,423,516.00 | 4418 |
| Parking Lot | 6,799.00 | Space | 61.19 | 2,719,600.00 | 0 |
| Apartments High Rise | 3,970.00 | Dwelling Unit | 64.03 | 2,906,333.00 | 7381 |
| Condo/Townhouse | 993.00 | Dwelling Unit | 62.06 | 726,583.00 | 1845 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - File Name Future No Project Ops
4,963 DUs

Land Use - 732 ft2/DU
Total DU 20% Condo Townhouse and 80% Apartment High Rise

Construction Phase - Adjusted based on total DU

Demolition -

Woodstoves - No wood stoves
20% Gas Fireplace

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot buidling footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water effcent landscape and irrigation
50 Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 711,758.00 | 208,784.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 2,135,274.00 | 626,352.00 |
| tblArchitecturalCoating | ConstArea_Parking | 163,176.00 | 404,232.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 2,452,218.00 | 6,074,465.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 7,356,655.00 | 18,223,396.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 711760 | 208784 |
| tblAreaCoating | Area_Nonresidential_Interior | 2135280 | 626352 |
| tblAreaCoating | Area_Parking | 163176 | 404232 |

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| | | | |
|-------------------------|--------------------------|--------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 300.00 | 100.00 |
| tblConstructionPhase | NumDays | 180.00 | 50.00 |
| tblConstructionPhase | NumDays | 465.00 | 150.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 1,500.00 |
| tblConstructionPhase | NumDays | 330.00 | 100.00 |
| tblConstructionPhase | NumDays | 330.00 | 100.00 |
| tblFireplaces | NumberGas | 3,374.50 | 3,375.00 |
| tblFireplaces | NumberGas | 844.05 | 844.00 |
| tblFireplaces | NumberNoFireplace | 397.00 | 595.00 |
| tblFireplaces | NumberNoFireplace | 99.30 | 149.00 |
| tblFireplaces | NumberWood | 198.50 | 0.00 |
| tblFireplaces | NumberWood | 49.65 | 0.00 |
| tblGrading | AcresOfGrading | 375.00 | 1,937.50 |
| tblLandUse | LandUseSquareFeet | 1,423,520.00 | 1,423,516.00 |
| tblLandUse | LandUseSquareFeet | 3,970,000.00 | 2,906,333.00 |
| tblLandUse | LandUseSquareFeet | 993,000.00 | 726,583.00 |
| tblLandUse | Population | 0.00 | 4,418.00 |
| tblLandUse | Population | 11,354.00 | 7,381.00 |
| tblLandUse | Population | 2,840.00 | 1,845.00 |
| tblSolidWaste | SolidWasteGenerationRate | 1,826.20 | 4,524.10 |
| tblSolidWaste | SolidWasteGenerationRate | 456.78 | 1,131.14 |
| tblSolidWaste | SolidWasteGenerationRate | 1,323.87 | 388.34 |

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| | | | |
|--------------------|---|----------------|----------------|
| tblTripsAndVMT | HaulingTripNumber | 4,195.00 | 10,393.00 |
| tblTripsAndVMT | VendorTripNumber | 1,210.00 | 2,487.00 |
| tblTripsAndVMT | WorkerTripNumber | 5,171.00 | 11,815.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,034.00 | 2,363.00 |
| tblVehicleTrips | CC_TL | 8.40 | 12.88 |
| tblVehicleTrips | CC_TL | 8.40 | 12.88 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.58 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.58 |
| tblVehicleTrips | CW_TL | 16.60 | 25.45 |
| tblVehicleTrips | CW_TL | 16.60 | 25.45 |
| tblVehicleTrips | HO_TL | 8.70 | 13.34 |
| tblVehicleTrips | HO_TL | 8.70 | 13.34 |
| tblVehicleTrips | HS_TL | 5.90 | 9.04 |
| tblVehicleTrips | HS_TL | 5.90 | 9.04 |
| tblVehicleTrips | HW_TL | 14.70 | 22.54 |
| tblVehicleTrips | HW_TL | 14.70 | 22.54 |
| tblWater | IndoorWaterUseRate | 258,661,481.72 | 640,789,841.99 |
| tblWater | IndoorWaterUseRate | 64,697,947.44 | 160,213,749.00 |
| tblWater | IndoorWaterUseRate | 253,007,544.94 | 74,216,281.15 |
| tblWater | OutdoorWaterUseRate | 163,069,195.00 | 403,976,204.73 |
| tblWater | OutdoorWaterUseRate | 40,787,836.43 | 101,004,320.02 |
| tblWater | OutdoorWaterUseRate | 155,069,140.45 | 45,487,398.12 |
| tblWaterMitigation | UseWaterEfficientIrrigationSystemPercentReduction | 6.1 | 50 |
| tblWoodstoves | NumberCatalytic | 198.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 49.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 198.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 49.65 | 0.00 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|--------------------------|--------------------------|---------------|---------------|--------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 6.9598 | 72.0298 | 49.9267 | 0.1175 | 38.2112 | 3.2505 | 41.4617 | 14.8326 | 2.9905 | 17.8231 | 0.0000 | 12,257.34 85 | 12,257.34 85 | 3.1459 | 0.0000 | 12,298.45 07 |
| 2023 | 58.4073 | 246.9988 | 437.8036 | 1.8216 | 167.9246 | 3.2462 | 171.1708 | 44.4549 | 3.0091 | 47.4639 | 0.0000 | 185,595.8 643 | 185,595.8 643 | 8.8912 | 0.0000 | 185,818.1 448 |
| 2024 | 52.3376 | 208.5481 | 384.5691 | 1.7175 | 147.9808 | 1.7186 | 149.6995 | 39.6063 | 1.6014 | 41.2076 | 0.0000 | 175,435.1 876 | 175,435.1 876 | 6.6532 | 0.0000 | 175,601.5 177 |
| 2025 | 49.9301 | 203.8393 | 360.4567 | 1.6703 | 147.9808 | 1.6118 | 149.5926 | 39.6063 | 1.5011 | 41.1074 | 0.0000 | 170,761.7 232 | 170,761.7 232 | 6.3712 | 0.0000 | 170,921.0 029 |
| 2026 | 47.9465 | 200.3588 | 340.0860 | 1.6292 | 147.9808 | 1.5784 | 149.5592 | 39.6063 | 1.4700 | 41.0763 | 0.0000 | 166,687.5 438 | 166,687.5 438 | 6.1236 | 0.0000 | 166,840.6 324 |
| 2027 | 46.0007 | 197.1201 | 322.0095 | 1.5929 | 147.9809 | 1.5275 | 149.5084 | 39.6063 | 1.4229 | 41.0292 | 0.0000 | 163,089.7 208 | 163,089.7 208 | 5.8954 | 0.0000 | 163,237.1 054 |
| 2028 | 46.5480 | 202.9324 | 321.1388 | 1.5851 | 148.1486 | 1.8840 | 150.0326 | 39.6508 | 1.7507 | 41.4015 | 0.0000 | 162,259.0 666 | 162,259.0 666 | 6.4102 | 0.0000 | 162,419.3 226 |
| 2029 | 630.4508 | 13.2303 | 62.2675 | 0.2133 | 26.5804 | 0.6110 | 27.1914 | 7.0493 | 0.5662 | 7.6155 | 0.0000 | 21,202.76 72 | 21,202.76 72 | 1.0473 | 0.0000 | 21,228.94 92 |
| Maximum | 630.4508 | 246.9988 | 437.8036 | 1.8216 | 167.9246 | 3.2505 | 171.1708 | 44.4549 | 3.0091 | 47.4639 | 0.0000 | 185,595.8 643 | 185,595.8 643 | 8.8912 | 0.0000 | 185,818.1 448 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 138.5629 | 74.7011 | 438.9882 | 0.4684 | | 7.9321 | 7.9321 | | 7.9321 | 7.9321 | 0.0000 | 90,082.59 40 | 90,082.59 40 | 2.4195 | 1.6380 | 90,631.19 46 |
| Energy | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |
| Mobile | 55.4884 | 301.4423 | 822.7136 | 4.1602 | 449.2318 | 2.5156 | 451.7474 | 120.1508 | 2.3372 | 122.4879 | | 426,210.7 986 | 426,210.7 986 | 16.5057 | | 426,623.4 413 |
| Total | 196.1059 | 393.9394 | 1,270.924 4 | 4.7407 | 449.2318 | 11.8672 | 461.0990 | 120.1508 | 11.6887 | 131.8395 | 0.0000 | 538,706.8 542 | 538,706.8 542 | 19.3548 | 2.0489 | 539,801.2 896 |

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 | 129.8349 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | 0.0000 | 734.0481 | 734.0481 | 0.6736 | 0.0000 | 750.8886 |
| Energy | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |
| Mobile | 55.4884 | 301.4423 | 822.7136 | 4.1602 | 449.2318 | 2.5156 | 451.7474 | 120.1508 | 2.3372 | 122.4879 | | 426,210.7 986 | 426,210.7 986 | 16.5057 | | 426,623.4 413 |
| Total | 187.3778 | 323.9375 | 1,239.287 1 | 4.2938 | 449.2318 | 6.2059 | 455.4376 | 120.1508 | 6.0274 | 126.1782 | 0.0000 | 449,358.3 084 | 449,358.3 084 | 17.6089 | 0.4109 | 449,920.9 836 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 4.45 | 17.77 | 2.49 | 9.43 | 0.00 | 47.71 | 1.23 | 0.00 | 48.43 | 4.29 | 0.00 | 16.59 | 16.59 | 9.02 | 79.94 | 16.65 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 5/20/2022 | 5 | 100 | |
| 2 | Site Preparation | Site Preparation | 5/23/2022 | 8/1/2022 | 5 | 50 | |
| 3 | Grading | Grading | 8/1/2022 | 2/27/2023 | 5 | 150 | |
| 4 | Building Construction | Building Construction | 2/27/2023 | 11/27/2028 | 5 | 1500 | |
| 5 | Paving | Paving | 11/27/2028 | 4/16/2029 | 5 | 100 | |
| 6 | Architectural Coating | Architectural Coating | 4/16/2029 | 9/3/2029 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 61.19

Residential Indoor: 18,223,396; Residential Outdoor: 6,074,465; Non-Residential Indoor: 626,352; Non-Residential Outdoor: 208,784; Striped Parking Area: 404,232 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 10,393.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 11,815.00 | 2,487.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2,363.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.0797 | 0.0000 | 9.0797 | 1.3747 | 0.0000 | 1.3747 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 9.0797 | 1.2427 | 10.3223 | 1.3747 | 1.1553 | 2.5300 | | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7366 | 24.5546 | 5.8924 | 0.0772 | 1.8160 | 0.0712 | 1.8872 | 0.4977 | 0.0681 | 0.5658 | | 8,360.7868 | 8,360.7868 | 0.5879 | | 8,375.4842 |
| 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 | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.8017 | 24.5952 | 6.3611 | 0.0787 | 1.9837 | 0.0724 | 2.0561 | 0.5422 | 0.0692 | 0.6114 | | 8,510.5673 | 8,510.5673 | 0.5917 | | 8,525.3587 |

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 | | | | | 4.0859 | 0.0000 | 4.0859 | 0.6186 | 0.0000 | 0.6186 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 4.0859 | 0.0616 | 4.1475 | 0.6186 | 0.0616 | 0.6803 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7366 | 24.5546 | 5.8924 | 0.0772 | 1.8160 | 0.0712 | 1.8872 | 0.4977 | 0.0681 | 0.5658 | | 8,360.7868 | 8,360.7868 | 0.5879 | | 8,375.4842 |
| 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 | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.8017 | 24.5952 | 6.3611 | 0.0787 | 1.9837 | 0.0724 | 2.0561 | 0.5422 | 0.0692 | 0.6114 | | 8,510.5673 | 8,510.5673 | 0.5917 | | 8,525.3587 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |
| Total | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |
| Total | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 19.7202 | 1.6349 | 21.3551 | 4.7893 | 1.5041 | 6.2934 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |
| Total | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |
| Total | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |

3.4 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 19.7202 | 1.4245 | 21.1447 | 4.7893 | 1.3105 | 6.0998 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |
| Total | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |
| Total | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.1006 | 169.1277 | 52.6671 | 0.5915 | 15.9170 | 0.2007 | 16.1177 | 4.5823 | 0.1919 | 4.7742 | | 63,259.74 41 | 63,259.74 41 | 3.6665 | | 63,351.40 58 |
| Worker | 48.3304 | 28.9217 | 340.2653 | 1.1391 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 113,577.1 733 | 113,577.1 733 | 2.6682 | | 113,643.8 772 |
| Total | 53.4310 | 198.0494 | 392.9325 | 1.7306 | 147.9808 | 1.1204 | 149.1013 | 39.6063 | 1.0387 | 40.6449 | | 176,836.9 174 | 176,836.9 174 | 6.3346 | | 176,995.2 830 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.1006 | 169.1277 | 52.6671 | 0.5915 | 15.9170 | 0.2007 | 16.1177 | 4.5823 | 0.1919 | 4.7742 | | 63,259.74 41 | 63,259.74 41 | 3.6665 | | 63,351.40 58 |
| Worker | 48.3304 | 28.9217 | 340.2653 | 1.1391 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 113,577.1 733 | 113,577.1 733 | 2.6682 | | 113,643.8 772 |
| Total | 53.4310 | 198.0494 | 392.9325 | 1.7306 | 147.9808 | 1.1204 | 149.1013 | 39.6063 | 1.0387 | 40.6449 | | 176,836.9 174 | 176,836.9 174 | 6.3346 | | 176,995.2 830 |

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.9901 | 168.7579 | 51.1567 | 0.5891 | 15.9170 | 0.1978 | 16.1147 | 4.5823 | 0.1890 | 4.7714 | | 63,044.5879 | 63,044.5879 | 3.6060 | | 63,134.7375 |
| Worker | 45.8760 | 26.3465 | 317.2456 | 1.1014 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 109,834.9008 | 109,834.9008 | 2.4429 | | 109,895.9725 |
| Total | 50.8661 | 195.1043 | 368.4022 | 1.6905 | 147.9808 | 1.1053 | 149.0861 | 39.6063 | 1.0245 | 40.6307 | | 172,879.4887 | 172,879.4887 | 6.0489 | | 173,030.7101 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.9901 | 168.7579 | 51.1567 | 0.5891 | 15.9170 | 0.1978 | 16.1147 | 4.5823 | 0.1890 | 4.7714 | | 63,044.5879 | 63,044.5879 | 3.6060 | | 63,134.7375 |
| Worker | 45.8760 | 26.3465 | 317.2456 | 1.1014 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 109,834.9008 | 109,834.9008 | 2.4429 | | 109,895.9725 |
| Total | 50.8661 | 195.1043 | 368.4022 | 1.6905 | 147.9808 | 1.1053 | 149.0861 | 39.6063 | 1.0245 | 40.6307 | | 172,879.4887 | 172,879.4887 | 6.0489 | | 173,030.7101 |

3.5 Building Construction - 2025

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8624 | 167.2824 | 49.8198 | 0.5855 | 15.9169 | 0.1941 | 16.1110 | 4.5823 | 0.1855 | 4.7679 | | 62,696.88 69 | 62,696.88 69 | 3.5450 | | 62,785.51 28 |
| Worker | 43.7003 | 24.0872 | 294.5523 | 1.0578 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 105,508.3 619 | 105,508.3 619 | 2.2252 | | 105,563.9 920 |
| Total | 48.5627 | 191.3696 | 344.3721 | 1.6433 | 147.9808 | 1.0843 | 149.0651 | 39.6063 | 1.0048 | 40.6111 | | 168,205.2 488 | 168,205.2 488 | 5.7702 | | 168,349.5 048 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2025

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8624 | 167.2824 | 49.8198 | 0.5855 | 15.9169 | 0.1941 | 16.1110 | 4.5823 | 0.1855 | 4.7679 | | 62,696.88 69 | 62,696.88 69 | 3.5450 | | 62,785.51 28 |
| Worker | 43.7003 | 24.0872 | 294.5523 | 1.0578 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 105,508.3 619 | 105,508.3 619 | 2.2252 | | 105,563.9 920 |
| Total | 48.5627 | 191.3696 | 344.3721 | 1.6433 | 147.9808 | 1.0843 | 149.0651 | 39.6063 | 1.0048 | 40.6111 | | 168,205.2 488 | 168,205.2 488 | 5.7702 | | 168,349.5 048 |

3.5 Building Construction - 2026

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7508 | 165.7176 | 48.7865 | 0.5821 | 15.9170 | 0.1900 | 16.1070 | 4.5823 | 0.1816 | 4.7640 | | 62,364.07 46 | 62,364.07 46 | 3.4849 | | 62,451.19 58 |
| Worker | 41.8282 | 22.1716 | 275.2149 | 1.0201 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 101,766.9 949 | 101,766.9 949 | 2.0378 | | 101,817.9 385 |
| Total | 46.5791 | 187.8891 | 324.0014 | 1.6022 | 147.9808 | 1.0508 | 149.0316 | 39.6063 | 0.9738 | 40.5800 | | 164,131.0 695 | 164,131.0 695 | 5.5226 | | 164,269.1 343 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2026

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7508 | 165.7176 | 48.7865 | 0.5821 | 15.9170 | 0.1900 | 16.1070 | 4.5823 | 0.1816 | 4.7640 | | 62,364.07 46 | 62,364.07 46 | 3.4849 | | 62,451.19 58 |
| Worker | 41.8282 | 22.1716 | 275.2149 | 1.0201 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 101,766.9 949 | 101,766.9 949 | 2.0378 | | 101,817.9 385 |
| Total | 46.5791 | 187.8891 | 324.0014 | 1.6022 | 147.9808 | 1.0508 | 149.0316 | 39.6063 | 0.9738 | 40.5800 | | 164,131.0 695 | 164,131.0 695 | 5.5226 | | 164,269.1 343 |

3.5 Building Construction - 2027

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6572 | 164.2026 | 47.9530 | 0.5791 | 15.9170 | 0.1861 | 16.1032 | 4.5824 | 0.1779 | 4.7603 | | 62,066.1855 | 62,066.1855 | 3.4254 | | 62,151.8207 |
| Worker | 39.9761 | 20.4478 | 257.9718 | 0.9869 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 98,467.0610 | 98,467.0610 | 1.8690 | | 98,513.7866 |
| Total | 44.6333 | 184.6504 | 305.9248 | 1.5660 | 147.9809 | 0.9999 | 148.9808 | 39.6063 | 0.9267 | 40.5330 | | 160,533.2465 | 160,533.2465 | 5.2944 | | 160,665.6073 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2027

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6572 | 164.2026 | 47.9530 | 0.5791 | 15.9170 | 0.1861 | 16.1032 | 4.5824 | 0.1779 | 4.7603 | | 62,066.1855 | 62,066.1855 | 3.4254 | | 62,151.8207 |
| Worker | 39.9761 | 20.4478 | 257.9718 | 0.9869 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 98,467.0610 | 98,467.0610 | 1.8690 | | 98,513.7866 |
| Total | 44.6333 | 184.6504 | 305.9248 | 1.5660 | 147.9809 | 0.9999 | 148.9808 | 39.6063 | 0.9267 | 40.5330 | | 160,533.2465 | 160,533.2465 | 5.2944 | | 160,665.6073 |

3.5 Building Construction - 2028

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5773 | 162.9565 | 47.3101 | 0.5765 | 15.9171 | 0.1830 | 16.1002 | 4.5824 | 0.1749 | 4.7573 | | 61,813.95 23 | 61,813.95 23 | 3.3698 | | 61,898.19 77 |
| Worker | 38.0367 | 18.9006 | 242.8577 | 0.9576 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 95,560.57 37 | 95,560.57 37 | 1.7236 | | 95,603.66 33 |
| Total | 42.6140 | 181.8571 | 290.1678 | 1.5341 | 147.9810 | 0.9369 | 148.9179 | 39.6063 | 0.8685 | 40.4749 | | 157,374.5 260 | 157,374.5 260 | 5.0934 | | 157,501.8 609 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2028

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5773 | 162.9565 | 47.3101 | 0.5765 | 15.9171 | 0.1830 | 16.1002 | 4.5824 | 0.1749 | 4.7573 | | 61,813.95 23 | 61,813.95 23 | 3.3698 | | 61,898.19 77 |
| Worker | 38.0367 | 18.9006 | 242.8577 | 0.9576 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 95,560.57 37 | 95,560.57 37 | 1.7236 | | 95,603.66 33 |
| Total | 42.6140 | 181.8571 | 290.1678 | 1.5341 | 147.9810 | 0.9369 | 148.9179 | 39.6063 | 0.8685 | 40.4749 | | 157,374.5 260 | 157,374.5 260 | 5.0934 | | 157,501.8 609 |

3.6 Paving - 2028

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.5183 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2028

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 | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |
| Total | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8837 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2028

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 | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |
| Total | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |

3.6 Paving - 2029

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.5183 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2029

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 | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |
| Total | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8837 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2029

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 | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |
| Total | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |

3.7 Architectural Coating - 2029

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.7185 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2029

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 | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.5258 | 18,596.5258 | 0.3162 | | 18,604.4311 |
| Total | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.5258 | 18,596.5258 | 0.3162 | | 18,604.4311 |

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.5774 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2029

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 | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.52 58 | 18,596.52 58 | 0.3162 | | 18,604.43 11 |
| Total | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.52 58 | 18,596.52 58 | 0.3162 | | 18,604.43 11 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 55.4884 | 301.4423 | 822.7136 | 4.1602 | 449.2318 | 2.5156 | 451.7474 | 120.1508 | 2.3372 | 122.4879 | | 426,210.7986 | 426,210.7986 | 16.5057 | | 426,623.4413 |
| Unmitigated | 55.4884 | 301.4423 | 822.7136 | 4.1602 | 449.2318 | 2.5156 | 451.7474 | 120.1508 | 2.3372 | 122.4879 | | 426,210.7986 | 426,210.7986 | 16.5057 | | 426,623.4413 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|------------------|------------------|--------------------|--------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 16,674.00 | 19,770.60 | 14490.50 | 88,032,377 | 88,032,377 |
| Condo/Townhouse | 5,769.33 | 5,630.31 | 4806.12 | 29,398,543 | 29,398,543 |
| General Office Building | 15,701.43 | 3,501.86 | 1494.70 | 58,911,486 | 58,911,486 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 38,144.76 | 28,902.77 | 20,791.32 | 176,342,406 | 176,342,406 |

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 High Rise | 22.54 | 9.04 | 13.34 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 22.54 | 9.04 | 13.34 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 25.45 | 12.88 | 10.58 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 25.45 | 12.88 | 10.58 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |
| NaturalGas Unmitigated | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 High Rise | 100250 | 1.0811 | 9.2387 | 3.9314 | 0.0590 | | 0.7470 | 0.7470 | | 0.7470 | 0.7470 | | 11,794.1182 | 11,794.1182 | 0.2261 | 0.2162 | 11,864.2048 |
| Condo/Townhouse | 49665 | 0.5356 | 4.5770 | 1.9477 | 0.0292 | | 0.3701 | 0.3701 | | 0.3701 | 0.3701 | | 5,842.9368 | 5,842.9368 | 0.1120 | 0.1071 | 5,877.6585 |
| General Office Building | 40599.5 | 0.4378 | 3.9803 | 3.3435 | 0.0239 | | 0.3025 | 0.3025 | | 0.3025 | 0.3025 | | 4,776.4066 | 4,776.4066 | 0.0916 | 0.0876 | 4,804.7904 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.4617 | 22,413.4617 | 0.4296 | 0.4109 | 22,546.6537 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 100.25 | 1.0811 | 9.2387 | 3.9314 | 0.0590 | | 0.7470 | 0.7470 | | 0.7470 | 0.7470 | | 11,794.1182 | 11,794.1182 | 0.2261 | 0.2162 | 11,864.2048 |
| Condo/Townhouse | 49.665 | 0.5356 | 4.5770 | 1.9477 | 0.0292 | | 0.3701 | 0.3701 | | 0.3701 | 0.3701 | | 5,842.9368 | 5,842.9368 | 0.1120 | 0.1071 | 5,877.6585 |
| General Office Building | 40.5995 | 0.4378 | 3.9803 | 3.3435 | 0.0239 | | 0.3025 | 0.3025 | | 0.3025 | 0.3025 | | 4,776.4066 | 4,776.4066 | 0.0916 | 0.0876 | 4,804.7904 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.4617 | 22,413.4617 | 0.4296 | 0.4109 | 22,546.6537 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Leafblower
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 129.8349 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | 0.0000 | 734.0481 | 734.0481 | 0.6736 | 0.0000 | 750.8886 |
| Unmitigated | 138.5629 | 74.7011 | 438.9882 | 0.4684 | | 7.9321 | 7.9321 | | 7.9321 | 7.9321 | 0.0000 | 90,082.59 40 | 90,082.59 40 | 2.4195 | 1.6380 | 90,631.19 46 |

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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 101.0806 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 8.1898 | 69.9858 | 29.7812 | 0.4467 | | 5.6584 | 5.6584 | | 5.6584 | 5.6584 | 0.0000 | 89,343.52 94 | 89,343.52 94 | 1.7124 | 1.6380 | 89,874.45 33 |
| Landscaping | 12.2911 | 4.7153 | 409.2071 | 0.0217 | | 2.2737 | 2.2737 | | 2.2737 | 2.2737 | | 739.0646 | 739.0646 | 0.7071 | | 756.7413 |
| Total | 138.5629 | 74.7011 | 438.9882 | 0.4684 | | 7.9321 | 7.9321 | | 7.9321 | 7.9321 | 0.0000 | 90,082.59 40 | 90,082.59 40 | 2.4195 | 1.6380 | 90,631.19 46 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 101.0806 | | | | | 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 | 11.7529 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | | 734.0481 | 734.0481 | 0.6736 | | 750.8886 |
| Total | 129.8349 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | 0.0000 | 734.0481 | 734.0481 | 0.6736 | 0.0000 | 750.8886 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Winter

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

Santa Monica Housing Element - Future No Project Operational
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 1,423.52 | 1000sqft | 32.68 | 1,423,516.00 | 4418 |
| Parking Lot | 6,799.00 | Space | 61.19 | 2,719,600.00 | 0 |
| Apartments High Rise | 3,970.00 | Dwelling Unit | 64.03 | 2,906,333.00 | 7381 |
| Condo/Townhouse | 993.00 | Dwelling Unit | 62.06 | 726,583.00 | 1845 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

Project Characteristics - File Name Future No Project Ops
4,963 DUs

Land Use - 732 ft2/DU
Total DU 20% Condo Townhouse and 80% Apartment High Rise

Construction Phase - Adjusted based on total DU

Demolition -

Woodstoves - No wood stoves
20% Gas Fireplace

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot buidling footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water effcent landscape and irrigation
50 Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 711,758.00 | 208,784.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 2,135,274.00 | 626,352.00 |
| tblArchitecturalCoating | ConstArea_Parking | 163,176.00 | 404,232.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 2,452,218.00 | 6,074,465.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 7,356,655.00 | 18,223,396.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 711760 | 208784 |
| tblAreaCoating | Area_Nonresidential_Interior | 2135280 | 626352 |
| tblAreaCoating | Area_Parking | 163176 | 404232 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

| | | | |
|-------------------------|--------------------------|--------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 300.00 | 100.00 |
| tblConstructionPhase | NumDays | 180.00 | 50.00 |
| tblConstructionPhase | NumDays | 465.00 | 150.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 1,500.00 |
| tblConstructionPhase | NumDays | 330.00 | 100.00 |
| tblConstructionPhase | NumDays | 330.00 | 100.00 |
| tblFireplaces | NumberGas | 3,374.50 | 3,375.00 |
| tblFireplaces | NumberGas | 844.05 | 844.00 |
| tblFireplaces | NumberNoFireplace | 397.00 | 595.00 |
| tblFireplaces | NumberNoFireplace | 99.30 | 149.00 |
| tblFireplaces | NumberWood | 198.50 | 0.00 |
| tblFireplaces | NumberWood | 49.65 | 0.00 |
| tblGrading | AcresOfGrading | 375.00 | 1,937.50 |
| tblLandUse | LandUseSquareFeet | 1,423,520.00 | 1,423,516.00 |
| tblLandUse | LandUseSquareFeet | 3,970,000.00 | 2,906,333.00 |
| tblLandUse | LandUseSquareFeet | 993,000.00 | 726,583.00 |
| tblLandUse | Population | 0.00 | 4,418.00 |
| tblLandUse | Population | 11,354.00 | 7,381.00 |
| tblLandUse | Population | 2,840.00 | 1,845.00 |
| tblSolidWaste | SolidWasteGenerationRate | 1,826.20 | 4,524.10 |
| tblSolidWaste | SolidWasteGenerationRate | 456.78 | 1,131.14 |
| tblSolidWaste | SolidWasteGenerationRate | 1,323.87 | 388.34 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

| | | | |
|--------------------|---|----------------|----------------|
| tblTripsAndVMT | HaulingTripNumber | 4,195.00 | 10,393.00 |
| tblTripsAndVMT | VendorTripNumber | 1,210.00 | 2,487.00 |
| tblTripsAndVMT | WorkerTripNumber | 5,171.00 | 11,815.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,034.00 | 2,363.00 |
| tblVehicleTrips | CC_TL | 8.40 | 12.88 |
| tblVehicleTrips | CC_TL | 8.40 | 12.88 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.58 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.58 |
| tblVehicleTrips | CW_TL | 16.60 | 25.45 |
| tblVehicleTrips | CW_TL | 16.60 | 25.45 |
| tblVehicleTrips | HO_TL | 8.70 | 13.34 |
| tblVehicleTrips | HO_TL | 8.70 | 13.34 |
| tblVehicleTrips | HS_TL | 5.90 | 9.04 |
| tblVehicleTrips | HS_TL | 5.90 | 9.04 |
| tblVehicleTrips | HW_TL | 14.70 | 22.54 |
| tblVehicleTrips | HW_TL | 14.70 | 22.54 |
| tblWater | IndoorWaterUseRate | 258,661,481.72 | 640,789,841.99 |
| tblWater | IndoorWaterUseRate | 64,697,947.44 | 160,213,749.00 |
| tblWater | IndoorWaterUseRate | 253,007,544.94 | 74,216,281.15 |
| tblWater | OutdoorWaterUseRate | 163,069,195.00 | 403,976,204.73 |
| tblWater | OutdoorWaterUseRate | 40,787,836.43 | 101,004,320.02 |
| tblWater | OutdoorWaterUseRate | 155,069,140.45 | 45,487,398.12 |
| tblWaterMitigation | UseWaterEfficientIrrigationSystemPercentReduction | 6.1 | 50 |
| tblWoodstoves | NumberCatalytic | 198.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 49.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 198.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 49.65 | 0.00 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|--------------------------|--------------------------|---------------|---------------|--------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 6.9454 | 72.0210 | 50.0630 | 0.1191 | 38.2112 | 3.2505 | 41.4617 | 14.8326 | 2.9905 | 17.8231 | 0.0000 | 12,426.65 30 | 12,426.65 30 | 3.1466 | 0.0000 | 12,467.18 38 |
| 2023 | 53.7964 | 245.6022 | 472.9512 | 1.9182 | 167.9246 | 3.2369 | 171.1615 | 44.4549 | 3.0001 | 47.4550 | 0.0000 | 195,348.7 243 | 195,348.7 243 | 8.8654 | 0.0000 | 195,570.3 601 |
| 2024 | 47.8399 | 207.3332 | 417.7619 | 1.8113 | 147.9808 | 1.7103 | 149.6911 | 39.6063 | 1.5934 | 41.1997 | 0.0000 | 184,911.8 609 | 184,911.8 609 | 6.6205 | 0.0000 | 185,077.3 740 |
| 2025 | 45.5243 | 202.8192 | 391.4144 | 1.7608 | 147.9808 | 1.6044 | 149.5852 | 39.6063 | 1.4940 | 41.1002 | 0.0000 | 179,919.5 567 | 179,919.5 567 | 6.3307 | 0.0000 | 180,077.8 233 |
| 2026 | 43.6090 | 199.5059 | 369.1478 | 1.7170 | 147.9808 | 1.5717 | 149.5525 | 39.6063 | 1.4637 | 41.0700 | 0.0000 | 175,570.4 830 | 175,570.4 830 | 6.0769 | 0.0000 | 175,722.4 052 |
| 2027 | 41.7518 | 196.4262 | 349.3822 | 1.6783 | 147.9809 | 1.5215 | 149.5024 | 39.6063 | 1.4172 | 41.0236 | 0.0000 | 171,735.9 822 | 171,735.9 822 | 5.8438 | 0.0000 | 171,882.0 757 |
| 2028 | 42.4220 | 202.3692 | 347.0586 | 1.6685 | 148.1486 | 1.8786 | 150.0273 | 39.6508 | 1.7456 | 41.3964 | 0.0000 | 170,707.0 823 | 170,707.0 823 | 6.3548 | 0.0000 | 170,865.9 518 |
| 2029 | 629.7000 | 12.9359 | 68.0396 | 0.2264 | 26.5804 | 0.6110 | 27.1914 | 7.0493 | 0.5662 | 7.6155 | 0.0000 | 22,511.45 49 | 22,511.45 49 | 1.0727 | 0.0000 | 22,538.27 32 |
| Maximum | 629.7000 | 245.6022 | 472.9512 | 1.9182 | 167.9246 | 3.2505 | 171.1615 | 44.4549 | 3.0001 | 47.4550 | 0.0000 | 195,348.7 243 | 195,348.7 243 | 8.8654 | 0.0000 | 195,570.3 601 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 138.5629 | 74.7011 | 438.9882 | 0.4684 | | 7.9321 | 7.9321 | | 7.9321 | 7.9321 | 0.0000 | 90,082.59 40 | 90,082.59 40 | 2.4195 | 1.6380 | 90,631.19 46 |
| Energy | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |
| Mobile | 58.2659 | 295.8362 | 893.9995 | 4.3814 | 449.2318 | 2.5104 | 451.7422 | 120.1508 | 2.3321 | 122.4829 | | 448,410.2 193 | 448,410.2 193 | 16.5494 | | 448,823.9 553 |
| Total | 198.8834 | 388.3333 | 1,342.210 3 | 4.9619 | 449.2318 | 11.8620 | 461.0938 | 120.1508 | 11.6837 | 131.8345 | 0.0000 | 560,906.2 750 | 560,906.2 750 | 19.3985 | 2.0489 | 562,001.8 036 |

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 | 129.8349 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | 0.0000 | 734.0481 | 734.0481 | 0.6736 | 0.0000 | 750.8886 |
| Energy | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |
| Mobile | 58.2659 | 295.8362 | 893.9995 | 4.3814 | 449.2318 | 2.5104 | 451.7422 | 120.1508 | 2.3321 | 122.4829 | | 448,410.2 193 | 448,410.2 193 | 16.5494 | | 448,823.9 553 |
| Total | 190.1553 | 318.3313 | 1,310.573 0 | 4.5149 | 449.2318 | 6.2006 | 455.4324 | 120.1508 | 6.0224 | 126.1731 | 0.0000 | 471,557.7 291 | 471,557.7 291 | 17.6527 | 0.4109 | 472,121.4 976 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 4.39 | 18.03 | 2.36 | 9.01 | 0.00 | 47.73 | 1.23 | 0.00 | 48.45 | 4.29 | 0.00 | 15.93 | 15.93 | 9.00 | 79.94 | 15.99 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 5/20/2022 | 5 | 100 | |
| 2 | Site Preparation | Site Preparation | 5/23/2022 | 8/1/2022 | 5 | 50 | |
| 3 | Grading | Grading | 8/1/2022 | 2/27/2023 | 5 | 150 | |
| 4 | Building Construction | Building Construction | 2/27/2023 | 11/27/2028 | 5 | 1500 | |
| 5 | Paving | Paving | 11/27/2028 | 4/16/2029 | 5 | 100 | |
| 6 | Architectural Coating | Architectural Coating | 4/16/2029 | 9/3/2029 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 61.19

Residential Indoor: 18,223,396; Residential Outdoor: 6,074,465; Non-Residential Indoor: 626,352; Non-Residential Outdoor: 208,784; Striped Parking Area: 404,232 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 10,393.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 11,815.00 | 2,487.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2,363.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.0797 | 0.0000 | 9.0797 | 1.3747 | 0.0000 | 1.3747 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 9.0797 | 1.2427 | 10.3223 | 1.3747 | 1.1553 | 2.5300 | | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7161 | 24.2946 | 5.5024 | 0.0786 | 1.8160 | 0.0701 | 1.8861 | 0.4977 | 0.0670 | 0.5647 | | 8,519.713 2 | 8,519.713 2 | 0.5648 | | 8,533.832 2 |
| 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 | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.7755 | 24.3317 | 6.0249 | 0.0802 | 1.9837 | 0.0713 | 2.0550 | 0.5422 | 0.0681 | 0.6103 | | 8,679.871 8 | 8,679.871 8 | 0.5688 | | 8,694.091 7 |

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 | | | | | 4.0859 | 0.0000 | 4.0859 | 0.6186 | 0.0000 | 0.6186 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 4.0859 | 0.0616 | 4.1475 | 0.6186 | 0.0616 | 0.6803 | 0.0000 | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7161 | 24.2946 | 5.5024 | 0.0786 | 1.8160 | 0.0701 | 1.8861 | 0.4977 | 0.0670 | 0.5647 | | 8,519.713 2 | 8,519.713 2 | 0.5648 | | 8,533.832 2 |
| 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 | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.7755 | 24.3317 | 6.0249 | 0.0802 | 1.9837 | 0.0713 | 2.0550 | 0.5422 | 0.0681 | 0.6103 | | 8,679.871 8 | 8,679.871 8 | 0.5688 | | 8,694.091 7 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.061 9 | 3,686.061 9 | 1.1922 | | 3,715.865 5 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.0663 | 1.6126 | 19.6788 | 9.9307 | 1.4836 | 11.4143 | | 3,686.061 9 | 3,686.061 9 | 1.1922 | | 3,715.865 5 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |
| Total | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |
| Total | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 19.7202 | 1.6349 | 21.3551 | 4.7893 | 1.5041 | 6.2934 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |
| Total | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |
| Total | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |

3.4 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 19.7202 | 1.4245 | 21.1447 | 4.7893 | 1.3105 | 6.0998 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |
| Total | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |
| Total | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8417 | 170.2189 | 47.9288 | 0.6088 | 15.9170 | 0.1914 | 16.1084 | 4.5823 | 0.1829 | 4.7653 | | 65,126.50 12 | 65,126.50 12 | 3.4406 | | 65,212.51 62 |
| Worker | 43.9857 | 26.4381 | 380.0838 | 1.2183 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 121,449.9 495 | 121,449.9 495 | 2.8679 | | 121,521.6 469 |
| Total | 48.8274 | 196.6570 | 428.0126 | 1.8271 | 147.9808 | 1.1111 | 149.0919 | 39.6063 | 1.0298 | 40.6360 | | 186,576.4 507 | 186,576.4 507 | 6.3085 | | 186,734.1 631 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8417 | 170.2189 | 47.9288 | 0.6088 | 15.9170 | 0.1914 | 16.1084 | 4.5823 | 0.1829 | 4.7653 | | 65,126.50 12 | 65,126.50 12 | 3.4406 | | 65,212.51 62 |
| Worker | 43.9857 | 26.4381 | 380.0838 | 1.2183 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 121,449.9 495 | 121,449.9 495 | 2.8679 | | 121,521.6 469 |
| Total | 48.8274 | 196.6570 | 428.0126 | 1.8271 | 147.9808 | 1.1111 | 149.0919 | 39.6063 | 1.0298 | 40.6360 | | 186,576.4 507 | 186,576.4 507 | 6.3085 | | 186,734.1 631 |

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7399 | 169.7966 | 46.5494 | 0.6062 | 15.9170 | 0.1894 | 16.1064 | 4.5823 | 0.1811 | 4.7634 | | 64,890.37 60 | 64,890.37 60 | 3.3871 | | 64,975.05 32 |
| Worker | 41.6285 | 24.0928 | 355.0457 | 1.1781 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 117,465.7 860 | 117,465.7 860 | 2.6291 | | 117,531.5 131 |
| Total | 46.3684 | 193.8894 | 401.5950 | 1.7843 | 147.9808 | 1.0970 | 149.0778 | 39.6063 | 1.0165 | 40.6228 | | 182,356.1 620 | 182,356.1 620 | 6.0162 | | 182,506.5 663 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7399 | 169.7966 | 46.5494 | 0.6062 | 15.9170 | 0.1894 | 16.1064 | 4.5823 | 0.1811 | 4.7634 | | 64,890.37 60 | 64,890.37 60 | 3.3871 | | 64,975.05 32 |
| Worker | 41.6285 | 24.0928 | 355.0457 | 1.1781 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 117,465.7 860 | 117,465.7 860 | 2.6291 | | 117,531.5 131 |
| Total | 46.3684 | 193.8894 | 401.5950 | 1.7843 | 147.9808 | 1.0970 | 149.0778 | 39.6063 | 1.0165 | 40.6228 | | 182,356.1 620 | 182,356.1 620 | 6.0162 | | 182,506.5 663 |

3.5 Building Construction - 2025

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6195 | 168.3163 | 45.3199 | 0.6023 | 15.9169 | 0.1866 | 16.1036 | 4.5823 | 0.1784 | 4.7607 | | 64,521.5182 | 64,521.5182 | 3.3333 | | 64,604.8495 |
| Worker | 39.5374 | 22.0332 | 330.0098 | 1.1316 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 112,841.5641 | 112,841.5641 | 2.3965 | | 112,901.4758 |
| Total | 44.1569 | 190.3495 | 375.3297 | 1.7339 | 147.9808 | 1.0768 | 149.0576 | 39.6063 | 0.9977 | 40.6040 | | 177,363.0823 | 177,363.0823 | 5.7297 | | 177,506.3253 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2025

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6195 | 168.3163 | 45.3199 | 0.6023 | 15.9169 | 0.1866 | 16.1036 | 4.5823 | 0.1784 | 4.7607 | | 64,521.5182 | 64,521.5182 | 3.3333 | | 64,604.8495 |
| Worker | 39.5374 | 22.0332 | 330.0098 | 1.1316 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 112,841.5641 | 112,841.5641 | 2.3965 | | 112,901.4758 |
| Total | 44.1569 | 190.3495 | 375.3297 | 1.7339 | 147.9808 | 1.0768 | 149.0576 | 39.6063 | 0.9977 | 40.6040 | | 177,363.0823 | 177,363.0823 | 5.7297 | | 177,506.3253 |

3.5 Building Construction - 2026

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5145 | 166.7505 | 44.3774 | 0.5987 | 15.9170 | 0.1834 | 16.1004 | 4.5823 | 0.1753 | 4.7576 | | 64,168.1188 | 64,168.1188 | 3.2799 | | 64,250.1168 |
| Worker | 37.7271 | 20.2858 | 308.6857 | 1.0913 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 108,845.8898 | 108,845.8898 | 2.1960 | | 108,900.7903 |
| Total | 42.2416 | 187.0363 | 353.0631 | 1.6900 | 147.9808 | 1.0442 | 149.0250 | 39.6063 | 0.9674 | 40.5737 | | 173,014.0087 | 173,014.0087 | 5.4759 | | 173,150.9071 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2026

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5145 | 166.7505 | 44.3774 | 0.5987 | 15.9170 | 0.1834 | 16.1004 | 4.5823 | 0.1753 | 4.7576 | | 64,168.1188 | 64,168.1188 | 3.2799 | | 64,250.1168 |
| Worker | 37.7271 | 20.2858 | 308.6857 | 1.0913 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 108,845.8898 | 108,845.8898 | 2.1960 | | 108,900.7903 |
| Total | 42.2416 | 187.0363 | 353.0631 | 1.6900 | 147.9808 | 1.0442 | 149.0250 | 39.6063 | 0.9674 | 40.5737 | | 173,014.0087 | 173,014.0087 | 5.4759 | | 173,150.9071 |

3.5 Building Construction - 2027

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.4263 | 165.2429 | 43.6159 | 0.5955 | 15.9170 | 0.1802 | 16.0973 | 4.5824 | 0.1723 | 4.7546 | | 63,853.6202 | 63,853.6202 | 3.2272 | | 63,934.3008 |
| Worker | 35.9581 | 18.7137 | 289.6816 | 1.0559 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 105,325.8876 | 105,325.8876 | 2.0156 | | 105,376.2768 |
| Total | 40.3844 | 183.9566 | 333.2975 | 1.6514 | 147.9809 | 0.9940 | 148.9749 | 39.6063 | 0.9210 | 40.5273 | | 169,179.5078 | 169,179.5078 | 5.2428 | | 169,310.5777 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2027

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.4263 | 165.2429 | 43.6159 | 0.5955 | 15.9170 | 0.1802 | 16.0973 | 4.5824 | 0.1723 | 4.7546 | | 63,853.6202 | 63,853.6202 | 3.2272 | | 63,934.3008 |
| Worker | 35.9581 | 18.7137 | 289.6816 | 1.0559 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 105,325.8876 | 105,325.8876 | 2.0156 | | 105,376.2768 |
| Total | 40.3844 | 183.9566 | 333.2975 | 1.6514 | 147.9809 | 0.9940 | 148.9749 | 39.6063 | 0.9210 | 40.5273 | | 169,179.5078 | 169,179.5078 | 5.2428 | | 169,310.5777 |

3.5 Building Construction - 2028

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.3511 | 163.9927 | 43.0323 | 0.5927 | 15.9171 | 0.1777 | 16.0948 | 4.5824 | 0.1698 | 4.7522 | | 63,585.57 97 | 63,585.57 97 | 3.1779 | | 63,665.02 66 |
| Worker | 34.1418 | 17.3032 | 273.0171 | 1.0247 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 102,228.4 965 | 102,228.4 965 | 1.8599 | | 102,274.9 938 |
| Total | 38.4929 | 181.2959 | 316.0494 | 1.6174 | 147.9810 | 0.9316 | 148.9126 | 39.6063 | 0.8634 | 40.4698 | | 165,814.0 762 | 165,814.0 762 | 5.0378 | | 165,940.0 204 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2028

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.3511 | 163.9927 | 43.0323 | 0.5927 | 15.9171 | 0.1777 | 16.0948 | 4.5824 | 0.1698 | 4.7522 | | 63,585.57 97 | 63,585.57 97 | 3.1779 | | 63,665.02 66 |
| Worker | 34.1418 | 17.3032 | 273.0171 | 1.0247 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 102,228.4 965 | 102,228.4 965 | 1.8599 | | 102,274.9 938 |
| Total | 38.4929 | 181.2959 | 316.0494 | 1.6174 | 147.9810 | 0.9316 | 148.9126 | 39.6063 | 0.8634 | 40.4698 | | 165,814.0 762 | 165,814.0 762 | 5.0378 | | 165,940.0 204 |

3.6 Paving - 2028

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.5183 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2028

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 | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |
| Total | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8837 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2028

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 | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |
| Total | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |

3.6 Paving - 2029

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 2.5183 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2029

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 | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |
| Total | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 1.6032 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8837 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2029

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 | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |
| Total | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |

3.7 Architectural Coating - 2029

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.7185 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2029

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 | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |
| Total | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.5774 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2029

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 | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |
| Total | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 58.2659 | 295.8362 | 893.9995 | 4.3814 | 449.2318 | 2.5104 | 451.7422 | 120.1508 | 2.3321 | 122.4829 | | 448,410.2193 | 448,410.2193 | 16.5494 | | 448,823.9553 |
| Unmitigated | 58.2659 | 295.8362 | 893.9995 | 4.3814 | 449.2318 | 2.5104 | 451.7422 | 120.1508 | 2.3321 | 122.4829 | | 448,410.2193 | 448,410.2193 | 16.5494 | | 448,823.9553 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|------------------|------------------|--------------------|--------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 16,674.00 | 19,770.60 | 14490.50 | 88,032,377 | 88,032,377 |
| Condo/Townhouse | 5,769.33 | 5,630.31 | 4806.12 | 29,398,543 | 29,398,543 |
| General Office Building | 15,701.43 | 3,501.86 | 1494.70 | 58,911,486 | 58,911,486 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 38,144.76 | 28,902.77 | 20,791.32 | 176,342,406 | 176,342,406 |

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 High Rise | 22.54 | 9.04 | 13.34 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 22.54 | 9.04 | 13.34 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 25.45 | 12.88 | 10.58 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 25.45 | 12.88 | 10.58 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |
| NaturalGas Unmitigated | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.46 17 | 22,413.46 17 | 0.4296 | 0.4109 | 22,546.65 37 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 High Rise | 100250 | 1.0811 | 9.2387 | 3.9314 | 0.0590 | | 0.7470 | 0.7470 | | 0.7470 | 0.7470 | | 11,794.1182 | 11,794.1182 | 0.2261 | 0.2162 | 11,864.2048 |
| Condo/Townhouse | 49665 | 0.5356 | 4.5770 | 1.9477 | 0.0292 | | 0.3701 | 0.3701 | | 0.3701 | 0.3701 | | 5,842.9368 | 5,842.9368 | 0.1120 | 0.1071 | 5,877.6585 |
| General Office Building | 40599.5 | 0.4378 | 3.9803 | 3.3435 | 0.0239 | | 0.3025 | 0.3025 | | 0.3025 | 0.3025 | | 4,776.4066 | 4,776.4066 | 0.0916 | 0.0876 | 4,804.7904 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.4617 | 22,413.4617 | 0.4296 | 0.4109 | 22,546.6537 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 100.25 | 1.0811 | 9.2387 | 3.9314 | 0.0590 | | 0.7470 | 0.7470 | | 0.7470 | 0.7470 | | 11,794.1182 | 11,794.1182 | 0.2261 | 0.2162 | 11,864.2048 |
| Condo/Townhouse | 49.665 | 0.5356 | 4.5770 | 1.9477 | 0.0292 | | 0.3701 | 0.3701 | | 0.3701 | 0.3701 | | 5,842.9368 | 5,842.9368 | 0.1120 | 0.1071 | 5,877.6585 |
| General Office Building | 40.5995 | 0.4378 | 3.9803 | 3.3435 | 0.0239 | | 0.3025 | 0.3025 | | 0.3025 | 0.3025 | | 4,776.4066 | 4,776.4066 | 0.0916 | 0.0876 | 4,804.7904 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2.0546 | 17.7960 | 9.2225 | 0.1121 | | 1.4195 | 1.4195 | | 1.4195 | 1.4195 | | 22,413.4617 | 22,413.4617 | 0.4296 | 0.4109 | 22,546.6537 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Leafblower
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 129.8349 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | 0.0000 | 734.0481 | 734.0481 | 0.6736 | 0.0000 | 750.8886 |
| Unmitigated | 138.5629 | 74.7011 | 438.9882 | 0.4684 | | 7.9321 | 7.9321 | | 7.9321 | 7.9321 | 0.0000 | 90,082.59 40 | 90,082.59 40 | 2.4195 | 1.6380 | 90,631.19 46 |

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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 101.0806 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 8.1898 | 69.9858 | 29.7812 | 0.4467 | | 5.6584 | 5.6584 | | 5.6584 | 5.6584 | 0.0000 | 89,343.52 94 | 89,343.52 94 | 1.7124 | 1.6380 | 89,874.45 33 |
| Landscaping | 12.2911 | 4.7153 | 409.2071 | 0.0217 | | 2.2737 | 2.2737 | | 2.2737 | 2.2737 | | 739.0646 | 739.0646 | 0.7071 | | 756.7413 |
| Total | 138.5629 | 74.7011 | 438.9882 | 0.4684 | | 7.9321 | 7.9321 | | 7.9321 | 7.9321 | 0.0000 | 90,082.59 40 | 90,082.59 40 | 2.4195 | 1.6380 | 90,631.19 46 |

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, 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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 101.0806 | | | | | 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 | 11.7529 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | | 734.0481 | 734.0481 | 0.6736 | | 750.8886 |
| Total | 129.8349 | 4.6991 | 407.3509 | 0.0215 | | 2.2707 | 2.2707 | | 2.2707 | 2.2707 | 0.0000 | 734.0481 | 734.0481 | 0.6736 | 0.0000 | 750.8886 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Summer

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 1,423.52 | 1000sqft | 32.68 | 1,423,516.00 | 4418 |
| Parking Lot | 6,799.00 | Space | 61.19 | 2,719,600.00 | 0 |
| Apartments High Rise | 3,970.00 | Dwelling Unit | 64.03 | 2,906,333.00 | 7381 |
| Condo/Townhouse | 993.00 | Dwelling Unit | 62.06 | 726,583.00 | 1845 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future No Project Operational - South Coast AQMD Air District, Annual

Project Characteristics - File Name Future No Project Ops
4,963 DUs

Land Use - 732 ft2/DU
Total DU 20% Condo Townhouse and 80% Apartment High Rise

Construction Phase - Adjusted based on total DU

Demolition -

Woodstoves - No wood stoves
20% Gas Fireplace

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot buidling footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water effcent landscape and irrigation
50 Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|---------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 711,758.00 | 208,784.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 2,135,274.00 | 626,352.00 |
| tblArchitecturalCoating | ConstArea_Parking | 163,176.00 | 404,232.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 2,452,218.00 | 6,074,465.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior | 7,356,655.00 | 18,223,396.00 |
| tblAreaCoating | Area_Nonresidential_Exterior | 711760 | 208784 |
| tblAreaCoating | Area_Nonresidential_Interior | 2135280 | 626352 |
| tblAreaCoating | Area_Parking | 163176 | 404232 |

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| | | | |
|-------------------------|--------------------------|--------------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 300.00 | 100.00 |
| tblConstructionPhase | NumDays | 180.00 | 50.00 |
| tblConstructionPhase | NumDays | 465.00 | 150.00 |
| tblConstructionPhase | NumDays | 4,650.00 | 1,500.00 |
| tblConstructionPhase | NumDays | 330.00 | 100.00 |
| tblConstructionPhase | NumDays | 330.00 | 100.00 |
| tblFireplaces | NumberGas | 3,374.50 | 3,375.00 |
| tblFireplaces | NumberGas | 844.05 | 844.00 |
| tblFireplaces | NumberNoFireplace | 397.00 | 595.00 |
| tblFireplaces | NumberNoFireplace | 99.30 | 149.00 |
| tblFireplaces | NumberWood | 198.50 | 0.00 |
| tblFireplaces | NumberWood | 49.65 | 0.00 |
| tblGrading | AcresOfGrading | 375.00 | 1,937.50 |
| tblLandUse | LandUseSquareFeet | 1,423,520.00 | 1,423,516.00 |
| tblLandUse | LandUseSquareFeet | 3,970,000.00 | 2,906,333.00 |
| tblLandUse | LandUseSquareFeet | 993,000.00 | 726,583.00 |
| tblLandUse | Population | 0.00 | 4,418.00 |
| tblLandUse | Population | 11,354.00 | 7,381.00 |
| tblLandUse | Population | 2,840.00 | 1,845.00 |
| tblSolidWaste | SolidWasteGenerationRate | 1,826.20 | 4,524.10 |
| tblSolidWaste | SolidWasteGenerationRate | 456.78 | 1,131.14 |
| tblSolidWaste | SolidWasteGenerationRate | 1,323.87 | 388.34 |

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| | | | |
|--------------------|---|----------------|----------------|
| tblTripsAndVMT | HaulingTripNumber | 4,195.00 | 10,393.00 |
| tblTripsAndVMT | VendorTripNumber | 1,210.00 | 2,487.00 |
| tblTripsAndVMT | WorkerTripNumber | 5,171.00 | 11,815.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,034.00 | 2,363.00 |
| tblVehicleTrips | CC_TL | 8.40 | 12.88 |
| tblVehicleTrips | CC_TL | 8.40 | 12.88 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.58 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.58 |
| tblVehicleTrips | CW_TL | 16.60 | 25.45 |
| tblVehicleTrips | CW_TL | 16.60 | 25.45 |
| tblVehicleTrips | HO_TL | 8.70 | 13.34 |
| tblVehicleTrips | HO_TL | 8.70 | 13.34 |
| tblVehicleTrips | HS_TL | 5.90 | 9.04 |
| tblVehicleTrips | HS_TL | 5.90 | 9.04 |
| tblVehicleTrips | HW_TL | 14.70 | 22.54 |
| tblVehicleTrips | HW_TL | 14.70 | 22.54 |
| tblWater | IndoorWaterUseRate | 258,661,481.72 | 640,789,841.99 |
| tblWater | IndoorWaterUseRate | 64,697,947.44 | 160,213,749.00 |
| tblWater | IndoorWaterUseRate | 253,007,544.94 | 74,216,281.15 |
| tblWater | OutdoorWaterUseRate | 163,069,195.00 | 403,976,204.73 |
| tblWater | OutdoorWaterUseRate | 40,787,836.43 | 101,004,320.02 |
| tblWater | OutdoorWaterUseRate | 155,069,140.45 | 45,487,398.12 |
| tblWaterMitigation | UseWaterEfficientIrrigationSystemPercentReduction | 6.1 | 50 |
| tblWoodstoves | NumberCatalytic | 198.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 49.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 198.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 49.65 | 0.00 |

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.4574 | 5.5224 | 3.4872 | 0.0105 | 2.3948 | 0.1969 | 2.5917 | 0.6470 | 0.1819 | 0.8288 | 0.0000 | 959.8569 | 959.8569 | 0.1989 | 0.0000 | 964.8302 |
| 2023 | 5.5764 | 24.4481 | 46.4783 | 0.1979 | 17.1454 | 0.2289 | 17.3743 | 4.4651 | 0.2130 | 4.6781 | 0.0000 | 18,319.5155 | 18,319.5155 | 0.7214 | 0.0000 | 18,337.5492 |
| 2024 | 6.2322 | 27.7491 | 51.3609 | 0.2288 | 19.0346 | 0.2245 | 19.2591 | 5.1023 | 0.2092 | 5.3115 | 0.0000 | 21,200.6409 | 21,200.6409 | 0.7815 | 0.0000 | 21,220.1791 |
| 2025 | 5.9145 | 27.0146 | 47.9417 | 0.2216 | 18.9619 | 0.2098 | 19.1717 | 5.0828 | 0.1954 | 5.2782 | 0.0000 | 20,556.1770 | 20,556.1770 | 0.7452 | 0.0000 | 20,574.8061 |
| 2026 | 5.6727 | 26.5474 | 45.2190 | 0.2162 | 18.9619 | 0.2055 | 19.1674 | 5.0828 | 0.1914 | 5.2742 | 0.0000 | 20,064.9042 | 20,064.9042 | 0.7159 | 0.0000 | 20,082.8016 |
| 2027 | 5.4371 | 26.1132 | 42.8027 | 0.2114 | 18.9619 | 0.1989 | 19.1608 | 5.0828 | 0.1853 | 5.2681 | 0.0000 | 19,631.3043 | 19,631.3043 | 0.6890 | 0.0000 | 19,648.5289 |
| 2028 | 4.7295 | 23.3808 | 36.9842 | 0.1876 | 17.1477 | 0.1777 | 17.3254 | 4.5965 | 0.1655 | 4.7620 | 0.0000 | 17,433.0934 | 17,433.0934 | 0.6097 | 0.0000 | 17,448.3357 |
| 2029 | 31.7667 | 0.5657 | 3.0326 | 0.0106 | 1.3155 | 0.0256 | 1.3411 | 0.3494 | 0.0238 | 0.3731 | 0.0000 | 959.7839 | 959.7839 | 0.0401 | 0.0000 | 960.7874 |
| Maximum | 31.7667 | 27.7491 | 51.3609 | 0.2288 | 19.0346 | 0.2289 | 19.2591 | 5.1023 | 0.2130 | 5.3115 | 0.0000 | 21,200.6409 | 21,200.6409 | 0.7815 | 0.0000 | 21,220.1791 |

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2.1 Overall Construction

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.1222 | 1.5895 | 3.8690 | 0.0105 | 1.1407 | 0.0140 | 1.1547 | 0.3083 | 0.0138 | 0.3221 | 0.0000 | 959.8563 | 959.8563 | 0.1989 | 0.0000 | 964.8295 |
| 2023 | 5.3870 | 22.4717 | 46.7135 | 0.1979 | 16.5087 | 0.1293 | 16.6379 | 4.3664 | 0.1203 | 4.4866 | 0.0000 | 18,319.5150 | 18,319.5150 | 0.7214 | 0.0000 | 18,337.5487 |
| 2024 | 6.0824 | 26.2807 | 51.5304 | 0.2288 | 19.0346 | 0.1495 | 19.1841 | 5.1023 | 0.1389 | 5.2412 | 0.0000 | 21,200.6405 | 21,200.6405 | 0.7815 | 0.0000 | 21,220.1788 |
| 2025 | 5.7789 | 25.6789 | 48.1212 | 0.2216 | 18.9619 | 0.1463 | 19.1082 | 5.0828 | 0.1359 | 5.2187 | 0.0000 | 20,556.1767 | 20,556.1767 | 0.7452 | 0.0000 | 20,574.8057 |
| 2026 | 5.5370 | 25.2118 | 45.3985 | 0.2162 | 18.9619 | 0.1420 | 19.1039 | 5.0828 | 0.1319 | 5.2147 | 0.0000 | 20,064.9038 | 20,064.9038 | 0.7159 | 0.0000 | 20,082.8013 |
| 2027 | 5.3015 | 24.7775 | 42.9822 | 0.2114 | 18.9619 | 0.1354 | 19.0973 | 5.0828 | 0.1258 | 5.2086 | 0.0000 | 19,631.3039 | 19,631.3039 | 0.6890 | 0.0000 | 19,648.5285 |
| 2028 | 4.5989 | 22.0810 | 37.1805 | 0.1876 | 17.1477 | 0.1155 | 17.2632 | 4.5965 | 0.1074 | 4.7039 | 0.0000 | 17,433.0931 | 17,433.0931 | 0.6097 | 0.0000 | 17,448.3354 |
| 2029 | 31.7354 | 0.2345 | 3.1370 | 0.0106 | 1.3155 | 8.7300e-003 | 1.3242 | 0.3494 | 8.1600e-003 | 0.3575 | 0.0000 | 959.7838 | 959.7838 | 0.0401 | 0.0000 | 960.7873 |
| Maximum | 31.7354 | 26.2807 | 51.5304 | 0.2288 | 19.0346 | 0.1495 | 19.1841 | 5.1023 | 0.1389 | 5.2412 | 0.0000 | 21,200.6405 | 21,200.6405 | 0.7815 | 0.0000 | 21,220.1788 |

| | ROG | NOx | CO | SO2 | 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 | 1.89 | 8.07 | -0.59 | 0.00 | 1.66 | 42.73 | 2.18 | 1.44 | 42.70 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| 1 | 1-3-2022 | 4-2-2022 | 1.7276 | 0.8954 |
| 2 | 4-3-2022 | 7-2-2022 | 1.4491 | 0.5107 |

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| | | | | |
|----|-----------|-----------|--------|--------|
| 3 | 7-3-2022 | 10-2-2022 | 1.3481 | 0.1221 |
| 4 | 10-3-2022 | 1-2-2023 | 1.3967 | 0.1381 |
| 5 | 1-3-2023 | 4-2-2023 | 4.0981 | 3.2551 |
| 6 | 4-3-2023 | 7-2-2023 | 8.4969 | 8.0615 |
| 7 | 7-3-2023 | 10-2-2023 | 8.5945 | 8.1544 |
| 8 | 10-3-2023 | 1-2-2024 | 8.7826 | 8.3432 |
| 9 | 1-3-2024 | 4-2-2024 | 8.4747 | 8.0732 |
| 10 | 4-3-2024 | 7-2-2024 | 8.2931 | 7.8917 |
| 11 | 7-3-2024 | 10-2-2024 | 8.3883 | 7.9825 |
| 12 | 10-3-2024 | 1-2-2025 | 8.5669 | 8.1618 |
| 13 | 1-3-2025 | 4-2-2025 | 8.1530 | 7.7906 |
| 14 | 4-3-2025 | 7-2-2025 | 8.0712 | 7.7047 |
| 15 | 7-3-2025 | 10-2-2025 | 8.1637 | 7.7933 |
| 16 | 10-3-2025 | 1-2-2026 | 8.3342 | 7.9638 |
| 17 | 1-3-2026 | 4-2-2026 | 7.9775 | 7.6151 |
| 18 | 4-3-2026 | 7-2-2026 | 7.9012 | 7.5348 |
| 19 | 7-3-2026 | 10-2-2026 | 7.9918 | 7.6213 |
| 20 | 10-3-2026 | 1-2-2027 | 8.1549 | 7.7844 |
| 21 | 1-3-2027 | 4-2-2027 | 7.8111 | 7.4487 |
| 22 | 4-3-2027 | 7-2-2027 | 7.7408 | 7.3744 |
| 23 | 7-3-2027 | 10-2-2027 | 7.8294 | 7.4589 |
| 24 | 10-3-2027 | 1-2-2028 | 7.9848 | 7.6144 |
| 25 | 1-3-2028 | 4-2-2028 | 7.7417 | 7.3752 |
| 26 | 4-3-2028 | 7-2-2028 | 7.5928 | 7.2264 |
| 27 | 7-3-2028 | 10-2-2028 | 7.6796 | 7.3092 |
| 28 | 10-3-2028 | 1-2-2029 | 4.9138 | 4.5826 |
| 29 | 1-3-2029 | 4-2-2029 | 0.3590 | 0.1018 |

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| | | | | |
|----|----------|-----------|---------|---------|
| 30 | 4-3-2029 | 7-2-2029 | 17.6469 | 17.5746 |
| 31 | 7-3-2029 | 9-30-2029 | 14.2082 | 14.1821 |
| | | Highest | 17.6469 | 17.5746 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|-------------------|--------------------|--------------------|-----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 23.1887 | 1.4642 | 51.5232 | 8.2900e-003 | | 0.3549 | 0.3549 | | 0.3549 | 0.3549 | 0.0000 | 1,096.9471 | 1,096.9471 | 0.0996 | 0.0186 | 1,104.9722 |
| Energy | 0.3750 | 3.2478 | 1.6831 | 0.0205 | | 0.2591 | 0.2591 | | 0.2591 | 0.2591 | 0.0000 | 16,491.5692 | 16,491.5692 | 0.5988 | 0.1772 | 16,559.3442 |
| Mobile | 8.2938 | 46.4905 | 127.4054 | 0.6402 | 66.9847 | 0.3811 | 67.3658 | 17.9429 | 0.3540 | 18.2969 | 0.0000 | 59,494.8346 | 59,494.8346 | 2.2630 | 0.0000 | 59,551.4097 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,226.7921 | 0.0000 | 1,226.7921 | 72.5013 | 0.0000 | 3,039.3256 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 277.6669 | 5,579.6782 | 5,857.3451 | 28.7494 | 0.7211 | 6,790.9550 |
| Total | 31.8575 | 51.2025 | 180.6116 | 0.6689 | 66.9847 | 0.9951 | 67.9798 | 17.9429 | 0.9680 | 18.9109 | 1,504.4590 | 82,663.0290 | 84,167.4880 | 104.2121 | 0.9168 | 87,046.0066 |

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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 | 23.0191 | 0.5874 | 50.9189 | 2.6800e-003 | | 0.2838 | 0.2838 | | 0.2838 | 0.2838 | 0.0000 | 83.2397 | 83.2397 | 0.0764 | 0.0000 | 85.1493 |
| Energy | 0.3750 | 3.2478 | 1.6831 | 0.0205 | | 0.2591 | 0.2591 | | 0.2591 | 0.2591 | 0.0000 | 3,710.8000 | 3,710.8000 | 0.0711 | 0.0680 | 3,732.8514 |
| Mobile | 8.2938 | 46.4905 | 127.4054 | 0.6402 | 66.9847 | 0.3811 | 67.3658 | 17.9429 | 0.3540 | 18.2969 | 0.0000 | 59,494.8346 | 59,494.8346 | 2.2630 | 0.0000 | 59,551.4097 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,226.7921 | 0.0000 | 1,226.7921 | 72.5013 | 0.0000 | 3,039.3256 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 222.1335 | 3,879.1648 | 4,101.2983 | 22.9754 | 0.5719 | 4,846.0949 |
| Total | 31.6879 | 50.3256 | 180.0073 | 0.6633 | 66.9847 | 0.9240 | 67.9087 | 17.9429 | 0.8969 | 18.8398 | 1,448.9256 | 67,168.0390 | 68,616.9646 | 97.8872 | 0.6399 | 71,254.8309 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|
| Percent Reduction | 0.53 | 1.71 | 0.33 | 0.84 | 0.00 | 7.15 | 0.10 | 0.00 | 7.34 | 0.38 | 3.69 | 18.74 | 18.48 | 6.07 | 30.21 | 18.14 |

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 5/20/2022 | 5 | 100 | |
| 2 | Site Preparation | Site Preparation | 5/23/2022 | 8/1/2022 | 5 | 50 | |
| 3 | Grading | Grading | 8/1/2022 | 2/27/2023 | 5 | 150 | |
| 4 | Building Construction | Building Construction | 2/27/2023 | 11/27/2028 | 5 | 1500 | |
| 5 | Paving | Paving | 11/27/2028 | 4/16/2029 | 5 | 100 | |
| 6 | Architectural Coating | Architectural Coating | 4/16/2029 | 9/3/2029 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 61.19

Residential Indoor: 18,223,396; Residential Outdoor: 6,074,465; Non-Residential Indoor: 626,352; Non-Residential Outdoor: 208,784; Striped Parking Area: 404,232 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 10,393.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 11,815.00 | 2,487.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2,363.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.4540 | 0.0000 | 0.4540 | 0.0687 | 0.0000 | 0.0687 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1320 | 1.2860 | 1.0297 | 1.9400e-003 | | 0.0621 | 0.0621 | | 0.0578 | 0.0578 | 0.0000 | 169.9511 | 169.9511 | 0.0477 | 0.0000 | 171.1446 |
| Total | 0.1320 | 1.2860 | 1.0297 | 1.9400e-003 | 0.4540 | 0.0621 | 0.5161 | 0.0687 | 0.0578 | 0.1265 | 0.0000 | 169.9511 | 169.9511 | 0.0477 | 0.0000 | 171.1446 |

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0362 | 1.2500 | 0.2836 | 3.9000e-003 | 0.0893 | 3.5300e-003 | 0.0929 | 0.0245 | 3.3700e-003 | 0.0279 | 0.0000 | 383.4200 | 383.4200 | 0.0261 | 0.0000 | 384.0718 |
| 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 | 2.9400e-003 | 2.0900e-003 | 0.0241 | 8.0000e-005 | 8.2300e-003 | 6.0000e-005 | 8.2900e-003 | 2.1900e-003 | 6.0000e-005 | 2.2400e-003 | 0.0000 | 6.9105 | 6.9105 | 1.7000e-004 | 0.0000 | 6.9148 |
| Total | 0.0392 | 1.2521 | 0.3078 | 3.9800e-003 | 0.0976 | 3.5900e-003 | 0.1012 | 0.0267 | 3.4300e-003 | 0.0301 | 0.0000 | 390.3305 | 390.3305 | 0.0262 | 0.0000 | 390.9866 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2043 | 0.0000 | 0.2043 | 0.0309 | 0.0000 | 0.0309 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0231 | 0.1002 | 1.1640 | 1.9400e-003 | | 3.0800e-003 | 3.0800e-003 | | 3.0800e-003 | 3.0800e-003 | 0.0000 | 169.9509 | 169.9509 | 0.0477 | 0.0000 | 171.1444 |
| Total | 0.0231 | 0.1002 | 1.1640 | 1.9400e-003 | 0.2043 | 3.0800e-003 | 0.2074 | 0.0309 | 3.0800e-003 | 0.0340 | 0.0000 | 169.9509 | 169.9509 | 0.0477 | 0.0000 | 171.1444 |

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3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0362 | 1.2500 | 0.2836 | 3.9000e-003 | 0.0893 | 3.5300e-003 | 0.0929 | 0.0245 | 3.3700e-003 | 0.0279 | 0.0000 | 383.4200 | 383.4200 | 0.0261 | 0.0000 | 384.0718 |
| 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 | 2.9400e-003 | 2.0900e-003 | 0.0241 | 8.0000e-005 | 8.2300e-003 | 6.0000e-005 | 8.2900e-003 | 2.1900e-003 | 6.0000e-005 | 2.2400e-003 | 0.0000 | 6.9105 | 6.9105 | 1.7000e-004 | 0.0000 | 6.9148 |
| Total | 0.0392 | 1.2521 | 0.3078 | 3.9800e-003 | 0.0976 | 3.5900e-003 | 0.1012 | 0.0267 | 3.4300e-003 | 0.0301 | 0.0000 | 390.3305 | 390.3305 | 0.0262 | 0.0000 | 390.9866 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.4607 | 0.0000 | 0.4607 | 0.2532 | 0.0000 | 0.2532 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0808 | 0.8436 | 0.5023 | 9.7000e-004 | | 0.0411 | 0.0411 | | 0.0378 | 0.0378 | 0.0000 | 85.2705 | 85.2705 | 0.0276 | 0.0000 | 85.9599 |
| Total | 0.0808 | 0.8436 | 0.5023 | 9.7000e-004 | 0.4607 | 0.0411 | 0.5018 | 0.2532 | 0.0378 | 0.2911 | 0.0000 | 85.2705 | 85.2705 | 0.0276 | 0.0000 | 85.9599 |

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |
| Total | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2073 | 0.0000 | 0.2073 | 0.1140 | 0.0000 | 0.1140 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0119 | 0.0515 | 0.5322 | 9.7000e-004 | | 1.5800e-003 | 1.5800e-003 | | 1.5800e-003 | 1.5800e-003 | 0.0000 | 85.2703 | 85.2703 | 0.0276 | 0.0000 | 85.9598 |
| Total | 0.0119 | 0.0515 | 0.5322 | 9.7000e-004 | 0.2073 | 1.5800e-003 | 0.2089 | 0.1140 | 1.5800e-003 | 0.1155 | 0.0000 | 85.2703 | 85.2703 | 0.0276 | 0.0000 | 85.9598 |

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |
| Total | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.3654 | 0.0000 | 1.3654 | 0.2937 | 0.0000 | 0.2937 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1994 | 2.1364 | 1.5973 | 3.4100e-003 | | 0.0899 | 0.0899 | | 0.0827 | 0.0827 | 0.0000 | 299.9403 | 299.9403 | 0.0970 | 0.0000 | 302.3655 |
| Total | 0.1994 | 2.1364 | 1.5973 | 3.4100e-003 | 1.3654 | 0.0899 | 1.4553 | 0.2937 | 0.0827 | 0.3765 | 0.0000 | 299.9403 | 299.9403 | 0.0970 | 0.0000 | 302.3655 |

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3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |
| Total | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.6144 | 0.0000 | 0.6144 | 0.1322 | 0.0000 | 0.1322 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0419 | 0.1815 | 1.8150 | 3.4100e-003 | | 5.5800e-003 | 5.5800e-003 | | 5.5800e-003 | 5.5800e-003 | 0.0000 | 299.9399 | 299.9399 | 0.0970 | 0.0000 | 302.3651 |
| Total | 0.0419 | 0.1815 | 1.8150 | 3.4100e-003 | 0.6144 | 5.5800e-003 | 0.6200 | 0.1322 | 5.5800e-003 | 0.1378 | 0.0000 | 299.9399 | 299.9399 | 0.0970 | 0.0000 | 302.3651 |

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3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |
| Total | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |

3.4 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.1577 | 0.0000 | 1.1577 | 0.1795 | 0.0000 | 0.1795 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0681 | 0.7076 | 0.5751 | 1.2700e-003 | | 0.0292 | 0.0292 | | 0.0269 | 0.0269 | 0.0000 | 111.7972 | 111.7972 | 0.0362 | 0.0000 | 112.7011 |
| Total | 0.0681 | 0.7076 | 0.5751 | 1.2700e-003 | 1.1577 | 0.0292 | 1.1869 | 0.1795 | 0.0269 | 0.2064 | 0.0000 | 111.7972 | 111.7972 | 0.0362 | 0.0000 | 112.7011 |

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3.4 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |
| Total | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5210 | 0.0000 | 0.5210 | 0.0808 | 0.0000 | 0.0808 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0156 | 0.0677 | 0.6765 | 1.2700e-003 | | 2.0800e-003 | 2.0800e-003 | | 2.0800e-003 | 2.0800e-003 | 0.0000 | 111.7970 | 111.7970 | 0.0362 | 0.0000 | 112.7010 |
| Total | 0.0156 | 0.0677 | 0.6765 | 1.2700e-003 | 0.5210 | 2.0800e-003 | 0.5230 | 0.0808 | 2.0800e-003 | 0.0829 | 0.0000 | 111.7970 | 111.7970 | 0.0362 | 0.0000 | 112.7010 |

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3.4 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |
| Total | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1730 | 1.5823 | 1.7868 | 2.9600e-003 | | 0.0770 | 0.0770 | | 0.0724 | 0.0724 | 0.0000 | 254.9852 | 254.9852 | 0.0607 | 0.0000 | 256.5017 |
| Total | 0.1730 | 1.5823 | 1.7868 | 2.9600e-003 | | 0.0770 | 0.0770 | | 0.0724 | 0.0724 | 0.0000 | 254.9852 | 254.9852 | 0.0607 | 0.0000 | 256.5017 |

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.5447 | 18.8858 | 5.5454 | 0.0662 | 1.7244 | 0.0215 | 1.7459 | 0.4976 | 0.0205 | 0.5181 | 0.0000 | 6,420.7568 | 6,420.7568 | 0.3534 | 0.0000 | 6,429.5911 |
| Worker | 4.7891 | 3.2714 | 38.5588 | 0.1275 | 14.2589 | 0.1012 | 14.3600 | 3.7868 | 0.0932 | 3.8800 | 0.0000 | 11,528.3394 | 11,528.3394 | 0.2711 | 0.0000 | 11,535.1163 |
| Total | 5.3338 | 22.1572 | 44.1042 | 0.1936 | 15.9832 | 0.1227 | 16.1059 | 4.2844 | 0.1137 | 4.3981 | 0.0000 | 17,949.0962 | 17,949.0962 | 0.6245 | 0.0000 | 17,964.7074 |

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 | 0.0361 | 0.2458 | 1.9206 | 2.9600e-003 | | 4.4900e-003 | 4.4900e-003 | | 4.4900e-003 | 4.4900e-003 | 0.0000 | 254.9849 | 254.9849 | 0.0607 | 0.0000 | 256.5013 |
| Total | 0.0361 | 0.2458 | 1.9206 | 2.9600e-003 | | 4.4900e-003 | 4.4900e-003 | | 4.4900e-003 | 4.4900e-003 | 0.0000 | 254.9849 | 254.9849 | 0.0607 | 0.0000 | 256.5013 |

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.5447 | 18.8858 | 5.5454 | 0.0662 | 1.7244 | 0.0215 | 1.7459 | 0.4976 | 0.0205 | 0.5181 | 0.0000 | 6,420.7568 | 6,420.7568 | 0.3534 | 0.0000 | 6,429.5911 |
| Worker | 4.7891 | 3.2714 | 38.5588 | 0.1275 | 14.2589 | 0.1012 | 14.3600 | 3.7868 | 0.0932 | 3.8800 | 0.0000 | 11,528.3394 | 11,528.3394 | 0.2711 | 0.0000 | 11,535.1163 |
| Total | 5.3338 | 22.1572 | 44.1042 | 0.1936 | 15.9832 | 0.1227 | 16.1059 | 4.2844 | 0.1137 | 4.3981 | 0.0000 | 17,949.0962 | 17,949.0962 | 0.6245 | 0.0000 | 17,964.7074 |

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7223 | 303.7223 | 0.0718 | 0.0000 | 305.5179 |
| Total | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7223 | 303.7223 | 0.0718 | 0.0000 | 305.5179 |

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3.5 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6348 | 22.4384 | 6.4120 | 0.0785 | 2.0536 | 0.0253 | 2.0788 | 0.5925 | 0.0242 | 0.6167 | 0.0000 | 7,619.5228 | 7,619.5228 | 0.4141 | 0.0000 | 7,629.8748 |
| Worker | 5.4046 | 3.5496 | 42.8310 | 0.1468 | 16.9810 | 0.1189 | 17.0999 | 4.5098 | 0.1094 | 4.6192 | 0.0000 | 13,277.3957 | 13,277.3957 | 0.2956 | 0.0000 | 13,284.7865 |
| Total | 6.0394 | 25.9879 | 49.2431 | 0.2252 | 19.0346 | 0.1442 | 19.1787 | 5.1023 | 0.1336 | 5.2359 | 0.0000 | 20,896.9186 | 20,896.9186 | 0.7097 | 0.0000 | 20,914.6613 |

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 | 0.0429 | 0.2928 | 2.2873 | 3.5300e-003 | | 5.3400e-003 | 5.3400e-003 | | 5.3400e-003 | 5.3400e-003 | 0.0000 | 303.7220 | 303.7220 | 0.0718 | 0.0000 | 305.5175 |
| Total | 0.0429 | 0.2928 | 2.2873 | 3.5300e-003 | | 5.3400e-003 | 5.3400e-003 | | 5.3400e-003 | 5.3400e-003 | 0.0000 | 303.7220 | 303.7220 | 0.0718 | 0.0000 | 305.5175 |

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3.5 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6348 | 22.4384 | 6.4120 | 0.0785 | 2.0536 | 0.0253 | 2.0788 | 0.5925 | 0.0242 | 0.6167 | 0.0000 | 7,619.5228 | 7,619.5228 | 0.4141 | 0.0000 | 7,629.8748 |
| Worker | 5.4046 | 3.5496 | 42.8310 | 0.1468 | 16.9810 | 0.1189 | 17.0999 | 4.5098 | 0.1094 | 4.6192 | 0.0000 | 13,277.3957 | 13,277.3957 | 0.2956 | 0.0000 | 13,284.7865 |
| Total | 6.0394 | 25.9879 | 49.2431 | 0.2252 | 19.0346 | 0.1442 | 19.1787 | 5.1023 | 0.1336 | 5.2359 | 0.0000 | 20,896.9186 | 20,896.9186 | 0.7097 | 0.0000 | 20,914.6613 |

3.5 Building Construction - 2025

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| Total | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |

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3.5 Building Construction - 2025

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6163 | 22.1540 | 6.2181 | 0.0777 | 2.0457 | 0.0248 | 2.0705 | 0.5903 | 0.0237 | 0.6140 | 0.0000 | 7,547.824 4 | 7,547.824 4 | 0.4057 | 0.0000 | 7,557.967 7 |
| Worker | 5.1198 | 3.2332 | 39.6245 | 0.1404 | 16.9162 | 0.1162 | 17.0324 | 4.4925 | 0.1069 | 4.5995 | 0.0000 | 12,705.69 77 | 12,705.69 77 | 0.2683 | 0.0000 | 12,712.40 49 |
| Total | 5.7361 | 25.3873 | 45.8426 | 0.2181 | 18.9619 | 0.1409 | 19.1029 | 5.0828 | 0.1306 | 5.2134 | 0.0000 | 20,253.52 22 | 20,253.52 22 | 0.6740 | 0.0000 | 20,270.37 26 |

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 | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| Total | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |

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3.5 Building Construction - 2025

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6163 | 22.1540 | 6.2181 | 0.0777 | 2.0457 | 0.0248 | 2.0705 | 0.5903 | 0.0237 | 0.6140 | 0.0000 | 7,547.824 4 | 7,547.824 4 | 0.4057 | 0.0000 | 7,557.967 7 |
| Worker | 5.1198 | 3.2332 | 39.6245 | 0.1404 | 16.9162 | 0.1162 | 17.0324 | 4.4925 | 0.1069 | 4.5995 | 0.0000 | 12,705.69 77 | 12,705.69 77 | 0.2683 | 0.0000 | 12,712.40 49 |
| Total | 5.7361 | 25.3873 | 45.8426 | 0.2181 | 18.9619 | 0.1409 | 19.1029 | 5.0828 | 0.1306 | 5.2134 | 0.0000 | 20,253.52 22 | 20,253.52 22 | 0.6740 | 0.0000 | 20,270.37 26 |

3.5 Building Construction - 2026

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 | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| Total | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |

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3.5 Building Construction - 2026

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 | 0.6022 | 21.9436 | 6.0879 | 0.0772 | 2.0457 | 0.0243 | 2.0700 | 0.5903 | 0.0232 | 0.6135 | 0.0000 | 7,507.0099 | 7,507.0099 | 0.3991 | 0.0000 | 7,516.9861 |
| Worker | 4.8920 | 2.9765 | 37.0320 | 0.1354 | 16.9162 | 0.1123 | 17.0285 | 4.4925 | 0.1034 | 4.5959 | 0.0000 | 12,255.2393 | 12,255.2393 | 0.2457 | 0.0000 | 12,261.3821 |
| Total | 5.4942 | 24.9202 | 43.1199 | 0.2127 | 18.9619 | 0.1366 | 19.0986 | 5.0828 | 0.1266 | 5.2094 | 0.0000 | 19,762.2493 | 19,762.2493 | 0.6448 | 0.0000 | 19,778.3681 |

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 | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| Total | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |

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3.5 Building Construction - 2026

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 | 0.6022 | 21.9436 | 6.0879 | 0.0772 | 2.0457 | 0.0243 | 2.0700 | 0.5903 | 0.0232 | 0.6135 | 0.0000 | 7,507.0099 | 7,507.0099 | 0.3991 | 0.0000 | 7,516.9861 |
| Worker | 4.8920 | 2.9765 | 37.0320 | 0.1354 | 16.9162 | 0.1123 | 17.0285 | 4.4925 | 0.1034 | 4.5959 | 0.0000 | 12,255.2393 | 12,255.2393 | 0.2457 | 0.0000 | 12,261.3821 |
| Total | 5.4942 | 24.9202 | 43.1199 | 0.2127 | 18.9619 | 0.1366 | 19.0986 | 5.0828 | 0.1266 | 5.2094 | 0.0000 | 19,762.2493 | 19,762.2493 | 0.6448 | 0.0000 | 19,778.3681 |

3.5 Building Construction - 2027

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 | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| Total | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |

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3.5 Building Construction - 2027

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 | 0.5904 | 21.7404 | 5.9828 | 0.0768 | 2.0457 | 0.0238 | 2.0696 | 0.5903 | 0.0228 | 0.6131 | 0.0000 | 7,470.6030 | 7,470.6030 | 0.3925 | 0.0000 | 7,480.4142 |
| Worker | 4.6683 | 2.7455 | 34.7208 | 0.1310 | 16.9162 | 0.1062 | 17.0224 | 4.4925 | 0.0977 | 4.5903 | 0.0000 | 11,858.0464 | 11,858.0464 | 0.2254 | 0.0000 | 11,863.6811 |
| Total | 5.2587 | 24.4859 | 40.7036 | 0.2078 | 18.9619 | 0.1300 | 19.0920 | 5.0828 | 0.1205 | 5.2033 | 0.0000 | 19,328.6494 | 19,328.6494 | 0.6178 | 0.0000 | 19,344.0954 |

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 | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| Total | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |

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3.5 Building Construction - 2027

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 | 0.5904 | 21.7404 | 5.9828 | 0.0768 | 2.0457 | 0.0238 | 2.0696 | 0.5903 | 0.0228 | 0.6131 | 0.0000 | 7,470.6030 | 7,470.6030 | 0.3925 | 0.0000 | 7,480.4142 |
| Worker | 4.6683 | 2.7455 | 34.7208 | 0.1310 | 16.9162 | 0.1062 | 17.0224 | 4.4925 | 0.0977 | 4.5903 | 0.0000 | 11,858.0464 | 11,858.0464 | 0.2254 | 0.0000 | 11,863.6811 |
| Total | 5.2587 | 24.4859 | 40.7036 | 0.2078 | 18.9619 | 0.1300 | 19.0920 | 5.0828 | 0.1205 | 5.2033 | 0.0000 | 19,328.6494 | 19,328.6494 | 0.6178 | 0.0000 | 19,344.0954 |

3.5 Building Construction - 2028

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 | 0.1614 | 1.4714 | 1.8980 | 3.1800e-003 | | 0.0623 | 0.0623 | | 0.0586 | 0.0586 | 0.0000 | 273.6650 | 273.6650 | 0.0643 | 0.0000 | 275.2732 |
| Total | 0.1614 | 1.4714 | 1.8980 | 3.1800e-003 | | 0.0623 | 0.0623 | | 0.0586 | 0.0586 | 0.0000 | 273.6650 | 273.6650 | 0.0643 | 0.0000 | 275.2732 |

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3.5 Building Construction - 2028

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 | 0.5248 | 19.5068 | 5.3367 | 0.0691 | 1.8498 | 0.0212 | 1.8710 | 0.5337 | 0.0203 | 0.5540 | 0.0000 | 6,727.0456 | 6,727.0456 | 0.3493 | 0.0000 | 6,735.7775 |
| Worker | 4.0113 | 2.2950 | 29.5633 | 0.1150 | 15.2959 | 0.0890 | 15.3848 | 4.0622 | 0.0818 | 4.1441 | 0.0000 | 10,405.9594 | 10,405.9594 | 0.1880 | 0.0000 | 10,410.6585 |
| Total | 4.5361 | 21.8018 | 34.9000 | 0.1841 | 17.1457 | 0.1102 | 17.2559 | 4.5960 | 0.1021 | 4.6981 | 0.0000 | 17,133.0049 | 17,133.0049 | 0.5373 | 0.0000 | 17,146.4360 |

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 | 0.0387 | 0.2637 | 2.0603 | 3.1800e-003 | | 4.8100e-003 | 4.8100e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 273.6646 | 273.6646 | 0.0643 | 0.0000 | 275.2729 |
| Total | 0.0387 | 0.2637 | 2.0603 | 3.1800e-003 | | 4.8100e-003 | 4.8100e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 273.6646 | 273.6646 | 0.0643 | 0.0000 | 275.2729 |

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3.5 Building Construction - 2028

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 | 0.5248 | 19.5068 | 5.3367 | 0.0691 | 1.8498 | 0.0212 | 1.8710 | 0.5337 | 0.0203 | 0.5540 | 0.0000 | 6,727.0456 | 6,727.0456 | 0.3493 | 0.0000 | 6,735.7775 |
| Worker | 4.0113 | 2.2950 | 29.5633 | 0.1150 | 15.2959 | 0.0890 | 15.3848 | 4.0622 | 0.0818 | 4.1441 | 0.0000 | 10,405.9594 | 10,405.9594 | 0.1880 | 0.0000 | 10,410.6585 |
| Total | 4.5361 | 21.8018 | 34.9000 | 0.1841 | 17.1457 | 0.1102 | 17.2559 | 4.5960 | 0.1021 | 4.6981 | 0.0000 | 17,133.0049 | 17,133.0049 | 0.5373 | 0.0000 | 17,146.4360 |

3.6 Paving - 2028

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 | 0.0114 | 0.1073 | 0.1822 | 2.8000e-004 | | 5.2300e-003 | 5.2300e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 25.0241 | 25.0241 | 8.0900e-003 | 0.0000 | 25.2264 |
| Paving | 0.0200 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0315 | 0.1073 | 0.1822 | 2.8000e-004 | | 5.2300e-003 | 5.2300e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 25.0241 | 25.0241 | 8.0900e-003 | 0.0000 | 25.2264 |

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3.6 Paving - 2028

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |
| Total | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |

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 | 3.5100e-003 | 0.0152 | 0.2162 | 2.8000e-004 | | 4.7000e-004 | 4.7000e-004 | | 4.7000e-004 | 4.7000e-004 | 0.0000 | 25.0240 | 25.0240 | 8.0900e-003 | 0.0000 | 25.2264 |
| Paving | 0.0200 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0236 | 0.0152 | 0.2162 | 2.8000e-004 | | 4.7000e-004 | 4.7000e-004 | | 4.7000e-004 | 4.7000e-004 | 0.0000 | 25.0240 | 25.0240 | 8.0900e-003 | 0.0000 | 25.2264 |

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3.6 Paving - 2028

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |
| Total | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |

3.6 Paving - 2029

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 | 0.0348 | 0.3261 | 0.5540 | 8.7000e-004 | | 0.0159 | 0.0159 | | 0.0146 | 0.0146 | 0.0000 | 76.0732 | 76.0732 | 0.0246 | 0.0000 | 76.6883 |
| Paving | 0.0609 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0957 | 0.3261 | 0.5540 | 8.7000e-004 | | 0.0159 | 0.0159 | | 0.0146 | 0.0146 | 0.0000 | 76.0732 | 76.0732 | 0.0246 | 0.0000 | 76.6883 |

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3.6 Paving - 2029

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |
| Total | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |

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 | 0.0107 | 0.0462 | 0.6572 | 8.7000e-004 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 76.0731 | 76.0731 | 0.0246 | 0.0000 | 76.6882 |
| Paving | 0.0609 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0716 | 0.0462 | 0.6572 | 8.7000e-004 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 76.0731 | 76.0731 | 0.0246 | 0.0000 | 76.6882 |

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3.6 Paving - 2029

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |
| Total | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |

3.7 Architectural Coating - 2029

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 | 31.3377 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.6300e-003 | 0.0579 | 0.0914 | 1.5000e-004 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |
| Total | 31.3463 | 0.0579 | 0.0914 | 1.5000e-004 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |

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3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |
| Total | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |

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 | 31.3377 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.5000e-003 | 6.5000e-003 | 0.0925 | 1.5000e-004 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |
| Total | 31.3392 | 6.5000e-003 | 0.0925 | 1.5000e-004 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |

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3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |
| Total | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |

4.0 Operational Detail - Mobile

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 | 8.2938 | 46.4905 | 127.4054 | 0.6402 | 66.9847 | 0.3811 | 67.3658 | 17.9429 | 0.3540 | 18.2969 | 0.0000 | 59,494.83 46 | 59,494.83 46 | 2.2630 | 0.0000 | 59,551.40 97 |
| Unmitigated | 8.2938 | 46.4905 | 127.4054 | 0.6402 | 66.9847 | 0.3811 | 67.3658 | 17.9429 | 0.3540 | 18.2969 | 0.0000 | 59,494.83 46 | 59,494.83 46 | 2.2630 | 0.0000 | 59,551.40 97 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------|-----------|-------------|-------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 16,674.00 | 19,770.60 | 14490.50 | 88,032,377 | 88,032,377 |
| Condo/Townhouse | 5,769.33 | 5,630.31 | 4806.12 | 29,398,543 | 29,398,543 |
| General Office Building | 15,701.43 | 3,501.86 | 1494.70 | 58,911,486 | 58,911,486 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 38,144.76 | 28,902.77 | 20,791.32 | 176,342,406 | 176,342,406 |

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 High Rise | 22.54 | 9.04 | 13.34 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 22.54 | 9.04 | 13.34 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 25.45 | 12.88 | 10.58 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 25.45 | 12.88 | 10.58 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

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| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 12,780.7692 | 12,780.7692 | 0.5277 | 0.1092 | 12,826.4928 |
| NaturalGas Mitigated | 0.3750 | 3.2478 | 1.6831 | 0.0205 | | 0.2591 | 0.2591 | | 0.2591 | 0.2591 | 0.0000 | 3,710.8000 | 3,710.8000 | 0.0711 | 0.0680 | 3,732.8514 |
| NaturalGas Unmitigated | 0.3750 | 3.2478 | 1.6831 | 0.0205 | | 0.2591 | 0.2591 | | 0.2591 | 0.2591 | 0.0000 | 3,710.8000 | 3,710.8000 | 0.0711 | 0.0680 | 3,732.8514 |

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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 High Rise | 3.65913e+007 | 0.1973 | 1.6861 | 0.7175 | 0.0108 | | 0.1363 | 0.1363 | | 0.1363 | 0.1363 | 0.0000 | 1,952.6485 | 1,952.6485 | 0.0374 | 0.0358 | 1,964.2522 |
| Condo/Townhouse | 1.81277e+007 | 0.0978 | 0.8353 | 0.3555 | 5.3300e-003 | | 0.0675 | 0.0675 | | 0.0675 | 0.0675 | 0.0000 | 967.3637 | 967.3637 | 0.0185 | 0.0177 | 973.1123 |
| General Office Building | 1.48188e+007 | 0.0799 | 0.7264 | 0.6102 | 4.3600e-003 | | 0.0552 | 0.0552 | | 0.0552 | 0.0552 | 0.0000 | 790.7877 | 790.7877 | 0.0152 | 0.0145 | 795.4869 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.3750 | 3.2478 | 1.6831 | 0.0205 | | 0.2591 | 0.2591 | | 0.2591 | 0.2591 | 0.0000 | 3,710.7999 | 3,710.7999 | 0.0711 | 0.0680 | 3,732.8514 |

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5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments High Rise | 3.65913e+007 | 0.1973 | 1.6861 | 0.7175 | 0.0108 | | 0.1363 | 0.1363 | | 0.1363 | 0.1363 | 0.0000 | 1,952.6485 | 1,952.6485 | 0.0374 | 0.0358 | 1,964.2522 |
| Condo/Townhouse | 1.81277e+007 | 0.0978 | 0.8353 | 0.3555 | 5.3300e-003 | | 0.0675 | 0.0675 | | 0.0675 | 0.0675 | 0.0000 | 967.3637 | 967.3637 | 0.0185 | 0.0177 | 973.1123 |
| General Office Building | 1.48188e+007 | 0.0799 | 0.7264 | 0.6102 | 4.3600e-003 | | 0.0552 | 0.0552 | | 0.0552 | 0.0552 | 0.0000 | 790.7877 | 790.7877 | 0.0152 | 0.0145 | 795.4869 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.3750 | 3.2478 | 1.6831 | 0.0205 | | 0.2591 | 0.2591 | | 0.2591 | 0.2591 | 0.0000 | 3,710.7999 | 3,710.7999 | 0.0711 | 0.0680 | 3,732.8514 |

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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 High Rise | 1.57215e+007 | 5,009.2123 | 0.2068 | 0.0428 | 5,027.1329 |
| Condo/Townhouse | 4.94786e+006 | 1,576.4945 | 0.0651 | 0.0135 | 1,582.1344 |
| General Office Building | 1.84915e+007 | 5,891.7794 | 0.2432 | 0.0503 | 5,912.8574 |
| Parking Lot | 951860 | 303.2830 | 0.0125 | 2.5900e-003 | 304.3680 |
| Total | | 12,780.7692 | 0.5277 | 0.1092 | 12,826.4928 |

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5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments High Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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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 | 23.0191 | 0.5874 | 50.9189 | 2.6800e-003 | | 0.2838 | 0.2838 | | 0.2838 | 0.2838 | 0.0000 | 83.2397 | 83.2397 | 0.0764 | 0.0000 | 85.1493 |
| Unmitigated | 23.1887 | 1.4642 | 51.5232 | 8.2900e-003 | | 0.3549 | 0.3549 | | 0.3549 | 0.3549 | 0.0000 | 1,096.947 1 | 1,096.947 1 | 0.0996 | 0.0186 | 1,104.972 2 |

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 | 3.1027 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 18.4472 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.1024 | 0.8748 | 0.3723 | 5.5800e-003 | | 0.0707 | 0.0707 | | 0.0707 | 0.0707 | 0.0000 | 1,013.138 6 | 1,013.138 6 | 0.0194 | 0.0186 | 1,019.159 2 |
| Landscaping | 1.5364 | 0.5894 | 51.1509 | 2.7100e-003 | | 0.2842 | 0.2842 | | 0.2842 | 0.2842 | 0.0000 | 83.8085 | 83.8085 | 0.0802 | 0.0000 | 85.8130 |
| Total | 23.1887 | 1.4642 | 51.5231 | 8.2900e-003 | | 0.3549 | 0.3549 | | 0.3549 | 0.3549 | 0.0000 | 1,096.947 1 | 1,096.947 1 | 0.0996 | 0.0186 | 1,104.972 2 |

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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 | 3.1027 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 18.4472 | | | | | 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 | 1.4691 | 0.5874 | 50.9189 | 2.6800e-003 | | 0.2838 | 0.2838 | | 0.2838 | 0.2838 | 0.0000 | 83.2397 | 83.2397 | 0.0764 | 0.0000 | 85.1493 |
| Total | 23.0191 | 0.5874 | 50.9189 | 2.6800e-003 | | 0.2838 | 0.2838 | | 0.2838 | 0.2838 | 0.0000 | 83.2397 | 83.2397 | 0.0764 | 0.0000 | 85.1493 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------------|---------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 4,101.298 3 | 22.9754 | 0.5719 | 4,846.094 9 |
| Unmitigated | 5,857.345 1 | 28.7494 | 0.7211 | 6,790.955 0 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|------------------------|----------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 640.79 / 403.976 | 4,291.811 4 | 21.0489 | 0.5280 | 4,975.363 4 |
| Condo/Townhouse | 160.214 / 101.004 | 1,073.061 9 | 5.2628 | 0.1320 | 1,243.967 3 |
| General Office Building | 74.2163 / 45.4874 | 492.4718 | 2.4377 | 0.0611 | 571.6243 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 5,857.345 1 | 28.7494 | 0.7211 | 6,790.955 0 |

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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 High Rise | 512.632 / 201.988 | 3,004.4404 | 16.8214 | 0.4187 | 3,549.7473 |
| Condo/Townhouse | 128.171 / 50.5022 | 751.1865 | 4.2058 | 0.1047 | 887.5271 |
| General Office Building | 59.373 / 22.7437 | 345.6714 | 1.9482 | 0.0485 | 408.8206 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4,101.2983 | 22.9754 | 0.5718 | 4,846.0949 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------------|---------|--------|----------------|
| | MT/yr | | | |
| Mitigated | 1,226.792 1 | 72.5013 | 0.0000 | 3,039.325 6 |
| Unmitigated | 1,226.792 1 | 72.5013 | 0.0000 | 3,039.325 6 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|------------------------|----------------|---------------|------------------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 4524.1 | 918.3514 | 54.2730 | 0.0000 | 2,275.176 8 |
| Condo/Townhouse | 1131.14 | 229.6112 | 13.5696 | 0.0000 | 568.8520 |
| General Office Building | 388.34 | 78.8295 | 4.6587 | 0.0000 | 195.2968 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1,226.792 1 | 72.5013 | 0.0000 | 3,039.325 6 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 4524.1 | 918.3514 | 54.2730 | 0.0000 | 2,275.1768 |
| Condo/Townhouse | 1131.14 | 229.6112 | 13.5696 | 0.0000 | 568.8520 |
| General Office Building | 388.34 | 78.8295 | 4.6587 | 0.0000 | 195.2968 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1,226.7921 | 72.5013 | 0.0000 | 3,039.3256 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

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South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 417.57 | 1000sqft | 9.59 | 417,568.00 | 1769 |
| Parking Lot | 16,843.00 | Space | 151.59 | 6,737,200.00 | 0 |
| Apartments High Rise | 9,835.00 | Dwelling Unit | 158.63 | 7,199,366.00 | 19110 |
| Condo/Townhouse | 2,459.00 | Dwelling Unit | 153.69 | 1,799,842.00 | 4778 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - File Name Future Project Ops
12,294 DUs

Land Use - 732 ft2/DU
Total DU 20% Condo Townhouse and 80% Apartment High Rise

Construction Phase - Adjusted based on total DU

Demolition -

Vehicle Trips - Miles per trip adjusted based on Traffic Study

Woodstoves - No wood stoves
20% Gas Fireplace

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot building footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water efficient landscape and irrigation
50 Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

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| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 550.00 | 100.00 |
| tblConstructionPhase | NumDays | 7,750.00 | 1,500.00 |
| tblConstructionPhase | NumDays | 500.00 | 100.00 |
| tblConstructionPhase | NumDays | 775.00 | 150.00 |

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| | | | |
|----------------------|-------------------|--------------|--------------|
| tblConstructionPhase | NumDays | 550.00 | 100.00 |
| tblConstructionPhase | NumDays | 300.00 | 50.00 |
| tblFireplaces | NumberGas | 8,359.75 | 8,360.00 |
| tblFireplaces | NumberGas | 2,090.15 | 2,090.00 |
| tblFireplaces | NumberNoFireplace | 983.50 | 1,475.00 |
| tblFireplaces | NumberNoFireplace | 245.90 | 369.00 |
| tblFireplaces | NumberWood | 491.75 | 0.00 |
| tblFireplaces | NumberWood | 122.95 | 0.00 |
| tblGrading | AcresOfGrading | 375.00 | 1,937.50 |
| tblLandUse | LandUseSquareFeet | 417,570.00 | 417,568.00 |
| tblLandUse | LandUseSquareFeet | 9,835,000.00 | 7,199,366.00 |
| tblLandUse | LandUseSquareFeet | 2,459,000.00 | 1,799,842.00 |
| tblLandUse | Population | 0.00 | 1,769.00 |
| tblLandUse | Population | 28,128.00 | 19,110.00 |
| tblLandUse | Population | 7,033.00 | 4,778.00 |
| tblVehicleTrips | CC_TL | 8.40 | 12.48 |
| tblVehicleTrips | CC_TL | 8.40 | 12.48 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.25 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.25 |
| tblVehicleTrips | CW_TL | 16.60 | 24.66 |
| tblVehicleTrips | CW_TL | 16.60 | 24.66 |
| tblVehicleTrips | HO_TL | 8.70 | 12.92 |
| tblVehicleTrips | HO_TL | 8.70 | 12.92 |
| tblVehicleTrips | HS_TL | 5.90 | 8.76 |
| tblVehicleTrips | HS_TL | 5.90 | 8.76 |
| tblVehicleTrips | HW_TL | 14.70 | 21.84 |
| tblVehicleTrips | HW_TL | 14.70 | 21.84 |

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| | | | |
|-------------------|---|--------|------|
| tbWaterMitigation | UseWaterEfficientIrrigationSystemPercentReduction | 6.1 | 50 |
| tbWoodstoves | NumberCatalytic | 491.75 | 0.00 |
| tbWoodstoves | NumberCatalytic | 122.95 | 0.00 |
| tbWoodstoves | NumberNoncatalytic | 491.75 | 0.00 |
| tbWoodstoves | NumberNoncatalytic | 122.95 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 6.9598 | 72.0298 | 49.9267 | 0.1175 | 38.2112 | 3.2505 | 41.4617 | 14.8326 | 2.9905 | 17.8231 | 0.0000 | 12,257.3485 | 12,257.3485 | 3.1459 | 0.0000 | 12,298.4507 |
| 2023 | 58.4073 | 246.9988 | 437.8036 | 1.8216 | 167.9246 | 3.2462 | 171.1708 | 44.4549 | 3.0091 | 47.4639 | 0.0000 | 185,595.8643 | 185,595.8643 | 8.8912 | 0.0000 | 185,818.1448 |
| 2024 | 52.3376 | 208.5481 | 384.5691 | 1.7175 | 147.9808 | 1.7186 | 149.6995 | 39.6063 | 1.6014 | 41.2076 | 0.0000 | 175,435.1876 | 175,435.1876 | 6.6532 | 0.0000 | 175,601.5177 |
| 2025 | 49.9301 | 203.8393 | 360.4567 | 1.6703 | 147.9808 | 1.6118 | 149.5926 | 39.6063 | 1.5011 | 41.1074 | 0.0000 | 170,761.7232 | 170,761.7232 | 6.3712 | 0.0000 | 170,921.0029 |
| 2026 | 47.9465 | 200.3588 | 340.0860 | 1.6292 | 147.9808 | 1.5784 | 149.5592 | 39.6063 | 1.4700 | 41.0763 | 0.0000 | 166,687.5438 | 166,687.5438 | 6.1236 | 0.0000 | 166,840.6324 |
| 2027 | 46.0007 | 197.1201 | 322.0095 | 1.5929 | 147.9809 | 1.5275 | 149.5084 | 39.6063 | 1.4229 | 41.0292 | 0.0000 | 163,089.7208 | 163,089.7208 | 5.8954 | 0.0000 | 163,237.1054 |
| 2028 | 48.9165 | 202.9324 | 321.1388 | 1.5851 | 148.1486 | 1.8840 | 150.0326 | 39.6508 | 1.7507 | 41.4015 | 0.0000 | 162,259.0666 | 162,259.0666 | 6.4102 | 0.0000 | 162,419.3226 |
| 2029 | 632.8192 | 13.2303 | 62.2675 | 0.2133 | 26.5804 | 0.6110 | 27.1914 | 7.0493 | 0.5662 | 7.6155 | 0.0000 | 21,202.7672 | 21,202.7672 | 1.0473 | 0.0000 | 21,228.9492 |
| Maximum | 632.8192 | 246.9988 | 437.8036 | 1.8216 | 167.9246 | 3.2505 | 171.1708 | 44.4549 | 3.0091 | 47.4639 | 0.0000 | 185,595.8643 | 185,595.8643 | 8.8912 | 0.0000 | 185,818.1448 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 256.5429 | 185.0246 | 1,087.1084 | 1.1602 | | 19.6463 | 19.6463 | | 19.6463 | 19.6463 | 0.0000 | 223,124.1971 | 223,124.1971 | 5.9912 | 4.0571 | 224,482.9811 |
| Energy | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |
| Mobile | 90.6344 | 492.5481 | 1,337.9724 | 6.7585 | 729.3788 | 4.0884 | 733.4672 | 195.0784 | 3.7983 | 198.8767 | | 692,414.6496 | 692,414.6496 | 26.8501 | | 693,085.9017 |
| Total | 351.3104 | 712.9618 | 2,440.6239 | 8.1441 | 729.3788 | 26.5902 | 755.9691 | 195.0784 | 26.3002 | 221.3786 | 0.0000 | 960,626.9248 | 960,626.9248 | 33.7055 | 4.8837 | 962,924.8968 |

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 | 234.9274 | 11.6376 | 1,008.7562 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | 0.0000 | 1,817.6812 | 1,817.6812 | 1.6671 | 0.0000 | 1,859.3580 |
| Energy | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |
| Mobile | 90.6344 | 492.5481 | 1,337.9724 | 6.7585 | 729.3788 | 4.0884 | 733.4672 | 195.0784 | 3.7983 | 198.8767 | | 692,414.6496 | 692,414.6496 | 26.8501 | | 693,085.9017 |
| Total | 329.6949 | 539.5748 | 2,362.2717 | 7.0372 | 729.3788 | 12.5677 | 741.9465 | 195.0784 | 12.2777 | 207.3561 | 0.0000 | 739,320.4088 | 739,320.4088 | 29.3814 | 0.8266 | 740,301.2737 |

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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 |
|-------------------|------|-------|------|-------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|-------|-------|-------|
| Percent Reduction | 6.15 | 24.32 | 3.21 | 13.59 | 0.00 | 52.74 | 1.85 | 0.00 | 53.32 | 6.33 | 0.00 | 23.04 | 23.04 | 12.83 | 83.07 | 23.12 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 5/20/2022 | 5 | 100 | |
| 2 | Site Preparation | Site Preparation | 5/23/2022 | 8/1/2022 | 5 | 50 | |
| 3 | Grading | Grading | 8/1/2022 | 2/27/2023 | 5 | 150 | |
| 4 | Building Construction | Building Construction | 2/27/2023 | 11/27/2028 | 5 | 1500 | |
| 5 | Paving | Paving | 11/27/2028 | 4/16/2029 | 5 | 100 | |
| 6 | Architectural Coating | Architectural Coating | 4/16/2029 | 9/3/2029 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 151.59

Residential Indoor: 18,223,396; Residential Outdoor: 6,074,465; Non-Residential Indoor: 626,352; Non-Residential Outdoor: 208,784; Striped Parking Area: 404,232 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 10,393.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 11,815.00 | 2,487.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2,363.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 22.4915 | 0.0000 | 22.4915 | 3.4054 | 0.0000 | 3.4054 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 22.4915 | 1.2427 | 23.7342 | 3.4054 | 1.1553 | 4.5607 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7366 | 24.5546 | 5.8924 | 0.0772 | 1.8160 | 0.0712 | 1.8872 | 0.4977 | 0.0681 | 0.5658 | | 8,360.7868 | 8,360.7868 | 0.5879 | | 8,375.4842 |
| 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 | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.8017 | 24.5952 | 6.3611 | 0.0787 | 1.9837 | 0.0724 | 2.0561 | 0.5422 | 0.0692 | 0.6114 | | 8,510.5673 | 8,510.5673 | 0.5917 | | 8,525.3587 |

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 | | | | | 10.1212 | 0.0000 | 10.1212 | 1.5324 | 0.0000 | 1.5324 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 10.1212 | 0.0616 | 10.1828 | 1.5324 | 0.0616 | 1.5941 | 0.0000 | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7366 | 24.5546 | 5.8924 | 0.0772 | 1.8160 | 0.0712 | 1.8872 | 0.4977 | 0.0681 | 0.5658 | | 8,360.7868 | 8,360.7868 | 0.5879 | | 8,375.4842 |
| 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 | 0.0651 | 0.0406 | 0.4687 | 1.5000e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 149.7805 | 149.7805 | 3.7600e-003 | | 149.8745 |
| Total | 0.8017 | 24.5952 | 6.3611 | 0.0787 | 1.9837 | 0.0724 | 2.0561 | 0.5422 | 0.0692 | 0.6114 | | 8,510.5673 | 8,510.5673 | 0.5917 | | 8,525.3587 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |
| Total | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |
| Total | 0.0781 | 0.0487 | 0.5625 | 1.8000e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 179.7366 | 179.7366 | 4.5100e-003 | | 179.8494 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 19.7202 | 1.6349 | 21.3551 | 4.7893 | 1.5041 | 6.2934 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |
| Total | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |
| Total | 0.0868 | 0.0541 | 0.6250 | 2.0000e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 199.7073 | 199.7073 | 5.0100e-003 | | 199.8326 |

3.4 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 19.7202 | 1.4245 | 21.1447 | 4.7893 | 1.3105 | 6.0998 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |
| Total | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.4 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |
| Total | 0.0818 | 0.0490 | 0.5760 | 1.9300e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 192.2593 | 192.2593 | 4.5200e-003 | | 192.3722 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.1006 | 169.1277 | 52.6671 | 0.5915 | 15.9170 | 0.2007 | 16.1177 | 4.5823 | 0.1919 | 4.7742 | | 63,259.74 41 | 63,259.74 41 | 3.6665 | | 63,351.40 58 |
| Worker | 48.3304 | 28.9217 | 340.2653 | 1.1391 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 113,577.1 733 | 113,577.1 733 | 2.6682 | | 113,643.8 772 |
| Total | 53.4310 | 198.0494 | 392.9325 | 1.7306 | 147.9808 | 1.1204 | 149.1013 | 39.6063 | 1.0387 | 40.6449 | | 176,836.9 174 | 176,836.9 174 | 6.3346 | | 176,995.2 830 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 5.1006 | 169.1277 | 52.6671 | 0.5915 | 15.9170 | 0.2007 | 16.1177 | 4.5823 | 0.1919 | 4.7742 | | 63,259.74 41 | 63,259.74 41 | 3.6665 | | 63,351.40 58 |
| Worker | 48.3304 | 28.9217 | 340.2653 | 1.1391 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 113,577.1 733 | 113,577.1 733 | 2.6682 | | 113,643.8 772 |
| Total | 53.4310 | 198.0494 | 392.9325 | 1.7306 | 147.9808 | 1.1204 | 149.1013 | 39.6063 | 1.0387 | 40.6449 | | 176,836.9 174 | 176,836.9 174 | 6.3346 | | 176,995.2 830 |

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.9901 | 168.7579 | 51.1567 | 0.5891 | 15.9170 | 0.1978 | 16.1147 | 4.5823 | 0.1890 | 4.7714 | | 63,044.5879 | 63,044.5879 | 3.6060 | | 63,134.7375 |
| Worker | 45.8760 | 26.3465 | 317.2456 | 1.1014 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 109,834.9008 | 109,834.9008 | 2.4429 | | 109,895.9725 |
| Total | 50.8661 | 195.1043 | 368.4022 | 1.6905 | 147.9808 | 1.1053 | 149.0861 | 39.6063 | 1.0245 | 40.6307 | | 172,879.4887 | 172,879.4887 | 6.0489 | | 173,030.7101 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.9901 | 168.7579 | 51.1567 | 0.5891 | 15.9170 | 0.1978 | 16.1147 | 4.5823 | 0.1890 | 4.7714 | | 63,044.5879 | 63,044.5879 | 3.6060 | | 63,134.7375 |
| Worker | 45.8760 | 26.3465 | 317.2456 | 1.1014 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 109,834.9008 | 109,834.9008 | 2.4429 | | 109,895.9725 |
| Total | 50.8661 | 195.1043 | 368.4022 | 1.6905 | 147.9808 | 1.1053 | 149.0861 | 39.6063 | 1.0245 | 40.6307 | | 172,879.4887 | 172,879.4887 | 6.0489 | | 173,030.7101 |

3.5 Building Construction - 2025

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8624 | 167.2824 | 49.8198 | 0.5855 | 15.9169 | 0.1941 | 16.1110 | 4.5823 | 0.1855 | 4.7679 | | 62,696.88 69 | 62,696.88 69 | 3.5450 | | 62,785.51 28 |
| Worker | 43.7003 | 24.0872 | 294.5523 | 1.0578 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 105,508.3 619 | 105,508.3 619 | 2.2252 | | 105,563.9 920 |
| Total | 48.5627 | 191.3696 | 344.3721 | 1.6433 | 147.9808 | 1.0843 | 149.0651 | 39.6063 | 1.0048 | 40.6111 | | 168,205.2 488 | 168,205.2 488 | 5.7702 | | 168,349.5 048 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2025

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8624 | 167.2824 | 49.8198 | 0.5855 | 15.9169 | 0.1941 | 16.1110 | 4.5823 | 0.1855 | 4.7679 | | 62,696.88 69 | 62,696.88 69 | 3.5450 | | 62,785.51 28 |
| Worker | 43.7003 | 24.0872 | 294.5523 | 1.0578 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 105,508.3 619 | 105,508.3 619 | 2.2252 | | 105,563.9 920 |
| Total | 48.5627 | 191.3696 | 344.3721 | 1.6433 | 147.9808 | 1.0843 | 149.0651 | 39.6063 | 1.0048 | 40.6111 | | 168,205.2 488 | 168,205.2 488 | 5.7702 | | 168,349.5 048 |

3.5 Building Construction - 2026

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7508 | 165.7176 | 48.7865 | 0.5821 | 15.9170 | 0.1900 | 16.1070 | 4.5823 | 0.1816 | 4.7640 | | 62,364.07 46 | 62,364.07 46 | 3.4849 | | 62,451.19 58 |
| Worker | 41.8282 | 22.1716 | 275.2149 | 1.0201 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 101,766.9 949 | 101,766.9 949 | 2.0378 | | 101,817.9 385 |
| Total | 46.5791 | 187.8891 | 324.0014 | 1.6022 | 147.9808 | 1.0508 | 149.0316 | 39.6063 | 0.9738 | 40.5800 | | 164,131.0 695 | 164,131.0 695 | 5.5226 | | 164,269.1 343 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2026

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7508 | 165.7176 | 48.7865 | 0.5821 | 15.9170 | 0.1900 | 16.1070 | 4.5823 | 0.1816 | 4.7640 | | 62,364.07 46 | 62,364.07 46 | 3.4849 | | 62,451.19 58 |
| Worker | 41.8282 | 22.1716 | 275.2149 | 1.0201 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 101,766.9 949 | 101,766.9 949 | 2.0378 | | 101,817.9 385 |
| Total | 46.5791 | 187.8891 | 324.0014 | 1.6022 | 147.9808 | 1.0508 | 149.0316 | 39.6063 | 0.9738 | 40.5800 | | 164,131.0 695 | 164,131.0 695 | 5.5226 | | 164,269.1 343 |

3.5 Building Construction - 2027

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6572 | 164.2026 | 47.9530 | 0.5791 | 15.9170 | 0.1861 | 16.1032 | 4.5824 | 0.1779 | 4.7603 | | 62,066.1855 | 62,066.1855 | 3.4254 | | 62,151.8207 |
| Worker | 39.9761 | 20.4478 | 257.9718 | 0.9869 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 98,467.0610 | 98,467.0610 | 1.8690 | | 98,513.7866 |
| Total | 44.6333 | 184.6504 | 305.9248 | 1.5660 | 147.9809 | 0.9999 | 148.9808 | 39.6063 | 0.9267 | 40.5330 | | 160,533.2465 | 160,533.2465 | 5.2944 | | 160,665.6073 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2027

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6572 | 164.2026 | 47.9530 | 0.5791 | 15.9170 | 0.1861 | 16.1032 | 4.5824 | 0.1779 | 4.7603 | | 62,066.1855 | 62,066.1855 | 3.4254 | | 62,151.8207 |
| Worker | 39.9761 | 20.4478 | 257.9718 | 0.9869 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 98,467.0610 | 98,467.0610 | 1.8690 | | 98,513.7866 |
| Total | 44.6333 | 184.6504 | 305.9248 | 1.5660 | 147.9809 | 0.9999 | 148.9808 | 39.6063 | 0.9267 | 40.5330 | | 160,533.2465 | 160,533.2465 | 5.2944 | | 160,665.6073 |

3.5 Building Construction - 2028

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5773 | 162.9565 | 47.3101 | 0.5765 | 15.9171 | 0.1830 | 16.1002 | 4.5824 | 0.1749 | 4.7573 | | 61,813.95 23 | 61,813.95 23 | 3.3698 | | 61,898.19 77 |
| Worker | 38.0367 | 18.9006 | 242.8577 | 0.9576 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 95,560.57 37 | 95,560.57 37 | 1.7236 | | 95,603.66 33 |
| Total | 42.6140 | 181.8571 | 290.1678 | 1.5341 | 147.9810 | 0.9369 | 148.9179 | 39.6063 | 0.8685 | 40.4749 | | 157,374.5 260 | 157,374.5 260 | 5.0934 | | 157,501.8 609 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.5 Building Construction - 2028

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5773 | 162.9565 | 47.3101 | 0.5765 | 15.9171 | 0.1830 | 16.1002 | 4.5824 | 0.1749 | 4.7573 | | 61,813.95 23 | 61,813.95 23 | 3.3698 | | 61,898.19 77 |
| Worker | 38.0367 | 18.9006 | 242.8577 | 0.9576 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 95,560.57 37 | 95,560.57 37 | 1.7236 | | 95,603.66 33 |
| Total | 42.6140 | 181.8571 | 290.1678 | 1.5341 | 147.9810 | 0.9369 | 148.9179 | 39.6063 | 0.8685 | 40.4749 | | 157,374.5 260 | 157,374.5 260 | 5.0934 | | 157,501.8 609 |

3.6 Paving - 2028

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.8868 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2028

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 | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |
| Total | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.2521 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2028

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 | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |
| Total | 0.0483 | 0.0240 | 0.3083 | 1.2200e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 121.3211 | 121.3211 | 2.1900e-003 | | 121.3758 |

3.6 Paving - 2029

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.8868 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2029

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 | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |
| Total | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.2521 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.6 Paving - 2029

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 | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |
| Total | 0.0455 | 0.0221 | 0.2894 | 1.1800e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 118.0482 | 118.0482 | 2.0100e-003 | | 118.0984 |

3.7 Architectural Coating - 2029

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.7185 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2029

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 | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.5258 | 18,596.5258 | 0.3162 | | 18,604.4311 |
| Total | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.5258 | 18,596.5258 | 0.3162 | | 18,604.4311 |

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.5774 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

3.7 Architectural Coating - 2029

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 | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.52 58 | 18,596.52 58 | 0.3162 | | 18,604.43 11 |
| Total | 7.1684 | 3.4810 | 45.5910 | 0.1863 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 18,596.52 58 | 18,596.52 58 | 0.3162 | | 18,604.43 11 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 90.6344 | 492.5481 | 1,337.9724 | 6.7585 | 729.3788 | 4.0884 | 733.4672 | 195.0784 | 3.7983 | 198.8767 | | 692,414.6496 | 692,414.6496 | 26.8501 | | 693,085.9017 |
| Unmitigated | 90.6344 | 492.5481 | 1,337.9724 | 6.7585 | 729.3788 | 4.0884 | 733.4672 | 195.0784 | 3.7983 | 198.8767 | | 692,414.6496 | 692,414.6496 | 26.8501 | | 693,085.9017 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|------------------|------------------|--------------------|--------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 41,307.00 | 48,978.30 | 35897.75 | 211,284,548 | 211,284,548 |
| Condo/Townhouse | 14,286.79 | 13,942.53 | 11901.56 | 70,530,430 | 70,530,430 |
| General Office Building | 4,605.80 | 1,027.22 | 438.45 | 16,744,204 | 16,744,204 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 60,199.59 | 63,948.05 | 48,237.76 | 298,559,182 | 298,559,182 |

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 High Rise | 21.84 | 8.76 | 12.92 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 21.84 | 8.76 | 12.92 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 24.66 | 12.48 | 10.25 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 24.66 | 12.48 | 10.25 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |
| NaturalGas Unmitigated | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 High Rise | 248352 | 2.6783 | 22.8874 | 9.7393 | 0.1461 | | 1.8505 | 1.8505 | | 1.8505 | 1.8505 | | 29,217.9226 | 29,217.9226 | 0.5600 | 0.5357 | 29,391.5501 |
| Condo/Townhouse | 122987 | 1.3263 | 11.3341 | 4.8230 | 0.0724 | | 0.9164 | 0.9164 | | 0.9164 | 0.9164 | | 14,469.0651 | 14,469.0651 | 0.2773 | 0.2653 | 14,555.0475 |
| General Office Building | 11909.3 | 0.1284 | 1.1676 | 0.9808 | 7.0100e-003 | | 0.0887 | 0.0887 | | 0.0887 | 0.0887 | | 1,401.0904 | 1,401.0904 | 0.0269 | 0.0257 | 1,409.4164 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4.1331 | 35.3891 | 15.5431 | 0.2255 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 248.352 | 2.6783 | 22.8874 | 9.7393 | 0.1461 | | 1.8505 | 1.8505 | | 1.8505 | 1.8505 | | 29,217.9226 | 29,217.9226 | 0.5600 | 0.5357 | 29,391.5501 |
| Condo/Townhouse | 122.987 | 1.3263 | 11.3341 | 4.8230 | 0.0724 | | 0.9164 | 0.9164 | | 0.9164 | 0.9164 | | 14,469.0651 | 14,469.0651 | 0.2773 | 0.2653 | 14,555.0475 |
| General Office Building | 11.9093 | 0.1284 | 1.1676 | 0.9808 | 7.0100e-003 | | 0.0887 | 0.0887 | | 0.0887 | 0.0887 | | 1,401.0904 | 1,401.0904 | 0.0269 | 0.0257 | 1,409.4164 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4.1331 | 35.3891 | 15.5431 | 0.2255 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 234.9274 | 11.6376 | 1,008.756 2 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | 0.0000 | 1,817.681 2 | 1,817.681 2 | 1.6671 | 0.0000 | 1,859.358 0 |
| Unmitigated | 256.5429 | 185.0246 | 1,087.108 4 | 1.1602 | | 19.6463 | 19.6463 | | 19.6463 | 19.6463 | 0.0000 | 223,124.1 971 | 223,124.1 971 | 5.9912 | 4.0571 | 224,482.9 811 |

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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 188.8385 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 20.2853 | 173.3471 | 73.7647 | 1.1065 | | 14.0153 | 14.0153 | | 14.0153 | 14.0153 | 0.0000 | 221,294.1 177 | 221,294.1 177 | 4.2415 | 4.0571 | 222,609.1 579 |
| Landscaping | 30.4179 | 11.6775 | 1,013.343 7 | 0.0537 | | 5.6310 | 5.6310 | | 5.6310 | 5.6310 | | 1,830.079 5 | 1,830.079 5 | 1.7498 | | 1,873.823 1 |
| Total | 256.5429 | 185.0246 | 1,087.108 4 | 1.1602 | | 19.6463 | 19.6463 | | 19.6463 | 19.6463 | 0.0000 | 223,124.1 971 | 223,124.1 971 | 5.9912 | 4.0571 | 224,482.9 811 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 188.8385 | | | | | 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 | 29.0876 | 11.6376 | 1,008.756 2 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | | 1,817.681 2 | 1,817.681 2 | 1.6671 | | 1,859.358 0 |
| Total | 234.9274 | 11.6376 | 1,008.756 2 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | 0.0000 | 1,817.681 2 | 1,817.681 2 | 1.6671 | 0.0000 | 1,859.358 0 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Winter

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

Santa Monica Housing Element - Future Project Operational
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 417.57 | 1000sqft | 9.59 | 417,568.00 | 1769 |
| Parking Lot | 16,843.00 | Space | 151.59 | 6,737,200.00 | 0 |
| Apartments High Rise | 9,835.00 | Dwelling Unit | 158.63 | 7,199,366.00 | 19110 |
| Condo/Townhouse | 2,459.00 | Dwelling Unit | 153.69 | 1,799,842.00 | 4778 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

Project Characteristics - File Name Future Project Ops
12,294 DUs

Land Use - 732 ft2/DU
Total DU 20% Condo Townhouse and 80% Apartment High Rise

Construction Phase - Adjusted based on total DU

Demolition -

Vehicle Trips - Miles per trip adjusted based on Traffic Study

Woodstoves - No wood stoves
20% Gas Fireplace

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot building footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water efficient landscape and irrigation
50 Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 550.00 | 100.00 |
| tblConstructionPhase | NumDays | 7,750.00 | 1,500.00 |
| tblConstructionPhase | NumDays | 500.00 | 100.00 |
| tblConstructionPhase | NumDays | 775.00 | 150.00 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

| | | | |
|----------------------|-------------------|--------------|--------------|
| tblConstructionPhase | NumDays | 550.00 | 100.00 |
| tblConstructionPhase | NumDays | 300.00 | 50.00 |
| tblFireplaces | NumberGas | 8,359.75 | 8,360.00 |
| tblFireplaces | NumberGas | 2,090.15 | 2,090.00 |
| tblFireplaces | NumberNoFireplace | 983.50 | 1,475.00 |
| tblFireplaces | NumberNoFireplace | 245.90 | 369.00 |
| tblFireplaces | NumberWood | 491.75 | 0.00 |
| tblFireplaces | NumberWood | 122.95 | 0.00 |
| tblGrading | AcresOfGrading | 375.00 | 1,937.50 |
| tblLandUse | LandUseSquareFeet | 417,570.00 | 417,568.00 |
| tblLandUse | LandUseSquareFeet | 9,835,000.00 | 7,199,366.00 |
| tblLandUse | LandUseSquareFeet | 2,459,000.00 | 1,799,842.00 |
| tblLandUse | Population | 0.00 | 1,769.00 |
| tblLandUse | Population | 28,128.00 | 19,110.00 |
| tblLandUse | Population | 7,033.00 | 4,778.00 |
| tblVehicleTrips | CC_TL | 8.40 | 12.48 |
| tblVehicleTrips | CC_TL | 8.40 | 12.48 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.25 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.25 |
| tblVehicleTrips | CW_TL | 16.60 | 24.66 |
| tblVehicleTrips | CW_TL | 16.60 | 24.66 |
| tblVehicleTrips | HO_TL | 8.70 | 12.92 |
| tblVehicleTrips | HO_TL | 8.70 | 12.92 |
| tblVehicleTrips | HS_TL | 5.90 | 8.76 |
| tblVehicleTrips | HS_TL | 5.90 | 8.76 |
| tblVehicleTrips | HW_TL | 14.70 | 21.84 |
| tblVehicleTrips | HW_TL | 14.70 | 21.84 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

| | | | |
|-------------------|---|--------|------|
| tbWaterMitigation | UseWaterEfficientIrrigationSystemPercentReduction | 6.1 | 50 |
| tbWoodstoves | NumberCatalytic | 491.75 | 0.00 |
| tbWoodstoves | NumberCatalytic | 122.95 | 0.00 |
| tbWoodstoves | NumberNoncatalytic | 491.75 | 0.00 |
| tbWoodstoves | NumberNoncatalytic | 122.95 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|---------------|---------------------|---------------------|---------------|---------------|---------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 6.9454 | 72.0210 | 50.0630 | 0.1191 | 38.2112 | 3.2505 | 41.4617 | 14.8326 | 2.9905 | 17.8231 | 0.0000 | 12,426.6530 | 12,426.6530 | 3.1466 | 0.0000 | 12,467.1838 |
| 2023 | 53.7964 | 245.6022 | 472.9512 | 1.9182 | 167.9246 | 3.2369 | 171.1615 | 44.4549 | 3.0001 | 47.4550 | 0.0000 | 195,348.7243 | 195,348.7243 | 8.8654 | 0.0000 | 195,570.3601 |
| 2024 | 47.8399 | 207.3332 | 417.7619 | 1.8113 | 147.9808 | 1.7103 | 149.6911 | 39.6063 | 1.5934 | 41.1997 | 0.0000 | 184,911.8609 | 184,911.8609 | 6.6205 | 0.0000 | 185,077.3740 |
| 2025 | 45.5243 | 202.8192 | 391.4144 | 1.7608 | 147.9808 | 1.6044 | 149.5852 | 39.6063 | 1.4940 | 41.1002 | 0.0000 | 179,919.5567 | 179,919.5567 | 6.3307 | 0.0000 | 180,077.8233 |
| 2026 | 43.6090 | 199.5059 | 369.1478 | 1.7170 | 147.9808 | 1.5717 | 149.5525 | 39.6063 | 1.4637 | 41.0700 | 0.0000 | 175,570.4830 | 175,570.4830 | 6.0769 | 0.0000 | 175,722.4052 |
| 2027 | 41.7518 | 196.4262 | 349.3822 | 1.6783 | 147.9809 | 1.5215 | 149.5024 | 39.6063 | 1.4172 | 41.0236 | 0.0000 | 171,735.9822 | 171,735.9822 | 5.8438 | 0.0000 | 171,882.0757 |
| 2028 | 44.7905 | 202.3692 | 347.0586 | 1.6685 | 148.1486 | 1.8786 | 150.0273 | 39.6508 | 1.7456 | 41.3964 | 0.0000 | 170,707.0823 | 170,707.0823 | 6.3548 | 0.0000 | 170,865.9518 |
| 2029 | 632.0685 | 12.9359 | 68.0396 | 0.2264 | 26.5804 | 0.6110 | 27.1914 | 7.0493 | 0.5662 | 7.6155 | 0.0000 | 22,511.4549 | 22,511.4549 | 1.0727 | 0.0000 | 22,538.2732 |
| Maximum | 632.0685 | 245.6022 | 472.9512 | 1.9182 | 167.9246 | 3.2505 | 171.1615 | 44.4549 | 3.0001 | 47.4550 | 0.0000 | 195,348.7243 | 195,348.7243 | 8.8654 | 0.0000 | 195,570.3601 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 256.5429 | 185.0246 | 1,087.1084 | 1.1602 | | 19.6463 | 19.6463 | | 19.6463 | 19.6463 | 0.0000 | 223,124.1971 | 223,124.1971 | 5.9912 | 4.0571 | 224,482.9811 |
| Energy | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |
| Mobile | 95.1917 | 483.5141 | 1,453.3624 | 7.1180 | 729.3788 | 4.0798 | 733.4586 | 195.0784 | 3.7901 | 198.8685 | | 728,506.0008 | 728,506.0008 | 26.9152 | | 729,178.8817 |
| Total | 355.8677 | 703.9277 | 2,556.0139 | 8.5036 | 729.3788 | 26.5816 | 755.9604 | 195.0784 | 26.2919 | 221.3703 | 0.0000 | 996,718.2760 | 996,718.2760 | 33.7707 | 4.8837 | 999,017.8768 |

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 | 234.9274 | 11.6376 | 1,008.7562 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | 0.0000 | 1,817.6812 | 1,817.6812 | 1.6671 | 0.0000 | 1,859.3580 |
| Energy | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |
| Mobile | 95.1917 | 483.5141 | 1,453.3624 | 7.1180 | 729.3788 | 4.0798 | 733.4586 | 195.0784 | 3.7901 | 198.8685 | | 728,506.0008 | 728,506.0008 | 26.9152 | | 729,178.8817 |
| Total | 334.2522 | 530.5408 | 2,477.6617 | 7.3966 | 729.3788 | 12.5591 | 741.9379 | 195.0784 | 12.2694 | 207.3478 | 0.0000 | 775,411.7601 | 775,411.7601 | 29.4465 | 0.8266 | 776,394.2537 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 6.07 | 24.63 | 3.07 | 13.02 | 0.00 | 52.75 | 1.85 | 0.00 | 53.33 | 6.33 | 0.00 | 22.20 | 22.20 | 12.80 | 83.07 | 22.28 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 5/20/2022 | 5 | 100 | |
| 2 | Site Preparation | Site Preparation | 5/23/2022 | 8/1/2022 | 5 | 50 | |
| 3 | Grading | Grading | 8/1/2022 | 2/27/2023 | 5 | 150 | |
| 4 | Building Construction | Building Construction | 2/27/2023 | 11/27/2028 | 5 | 1500 | |
| 5 | Paving | Paving | 11/27/2028 | 4/16/2029 | 5 | 100 | |
| 6 | Architectural Coating | Architectural Coating | 4/16/2029 | 9/3/2029 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 151.59

Residential Indoor: 18,223,396; Residential Outdoor: 6,074,465; Non-Residential Indoor: 626,352; Non-Residential Outdoor: 208,784; Striped Parking Area: 404,232 (Architectural Coating – sqft)

OffRoad Equipment

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 10,393.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 11,815.00 | 2,487.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2,363.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 22.4915 | 0.0000 | 22.4915 | 3.4054 | 0.0000 | 3.4054 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6392 | 25.7194 | 20.5941 | 0.0388 | | 1.2427 | 1.2427 | | 1.1553 | 1.1553 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |
| Total | 2.6392 | 25.7194 | 20.5941 | 0.0388 | 22.4915 | 1.2427 | 23.7342 | 3.4054 | 1.1553 | 4.5607 | | 3,746.7812 | 3,746.7812 | 1.0524 | | 3,773.0920 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7161 | 24.2946 | 5.5024 | 0.0786 | 1.8160 | 0.0701 | 1.8861 | 0.4977 | 0.0670 | 0.5647 | | 8,519.713 2 | 8,519.713 2 | 0.5648 | | 8,533.832 2 |
| 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 | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.7755 | 24.3317 | 6.0249 | 0.0802 | 1.9837 | 0.0713 | 2.0550 | 0.5422 | 0.0681 | 0.6103 | | 8,679.871 8 | 8,679.871 8 | 0.5688 | | 8,694.091 7 |

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 | | | | | 10.1212 | 0.0000 | 10.1212 | 1.5324 | 0.0000 | 1.5324 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4623 | 2.0032 | 23.2798 | 0.0388 | | 0.0616 | 0.0616 | | 0.0616 | 0.0616 | 0.0000 | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |
| Total | 0.4623 | 2.0032 | 23.2798 | 0.0388 | 10.1212 | 0.0616 | 10.1828 | 1.5324 | 0.0616 | 1.5941 | 0.0000 | 3,746.781 2 | 3,746.781 2 | 1.0524 | | 3,773.092 0 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.7161 | 24.2946 | 5.5024 | 0.0786 | 1.8160 | 0.0701 | 1.8861 | 0.4977 | 0.0670 | 0.5647 | | 8,519.713 2 | 8,519.713 2 | 0.5648 | | 8,533.832 2 |
| 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 | 0.0594 | 0.0371 | 0.5225 | 1.6100e-003 | 0.1677 | 1.2000e-003 | 0.1689 | 0.0445 | 1.1000e-003 | 0.0456 | | 160.1586 | 160.1586 | 4.0400e-003 | | 160.2595 |
| Total | 0.7755 | 24.3317 | 6.0249 | 0.0802 | 1.9837 | 0.0713 | 2.0550 | 0.5422 | 0.0681 | 0.6103 | | 8,679.871 8 | 8,679.871 8 | 0.5688 | | 8,694.091 7 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.061 9 | 3,686.061 9 | 1.1922 | | 3,715.865 5 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 18.0663 | 1.6126 | 19.6788 | 9.9307 | 1.4836 | 11.4143 | | 3,686.061 9 | 3,686.061 9 | 1.1922 | | 3,715.865 5 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |
| Total | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4656 | 2.0175 | 20.8690 | 0.0380 | | 0.0621 | 0.0621 | | 0.0621 | 0.0621 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 0.4656 | 2.0175 | 20.8690 | 0.0380 | 8.1298 | 0.0621 | 8.1919 | 4.4688 | 0.0621 | 4.5309 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |
| Total | 0.0713 | 0.0445 | 0.6270 | 1.9300e-003 | 0.2012 | 1.4400e-003 | 0.2026 | 0.0534 | 1.3200e-003 | 0.0547 | | 192.1903 | 192.1903 | 4.8400e-003 | | 192.3114 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 19.7202 | 1.6349 | 21.3551 | 4.7893 | 1.5041 | 6.2934 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |
| Total | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |
| Total | 0.0792 | 0.0495 | 0.6967 | 2.1400e-003 | 0.2236 | 1.6000e-003 | 0.2252 | 0.0593 | 1.4700e-003 | 0.0608 | | 213.5448 | 213.5448 | 5.3800e-003 | | 213.6794 |

3.4 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.7202 | 0.0000 | 19.7202 | 4.7893 | 0.0000 | 4.7893 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 19.7202 | 1.4245 | 21.1447 | 4.7893 | 1.3105 | 6.0998 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |
| Total | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |

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 | | | | | 8.8741 | 0.0000 | 8.8741 | 2.1552 | 0.0000 | 2.1552 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7616 | 3.3000 | 32.9991 | 0.0621 | | 0.1015 | 0.1015 | | 0.1015 | 0.1015 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 0.7616 | 3.3000 | 32.9991 | 0.0621 | 8.8741 | 0.1015 | 8.9756 | 2.1552 | 0.1015 | 2.2567 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.4 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |
| Total | 0.0745 | 0.0448 | 0.6434 | 2.0600e-003 | 0.2236 | 1.5600e-003 | 0.2251 | 0.0593 | 1.4300e-003 | 0.0607 | | 205.5860 | 205.5860 | 4.8500e-003 | | 205.7074 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8417 | 170.2189 | 47.9288 | 0.6088 | 15.9170 | 0.1914 | 16.1084 | 4.5823 | 0.1829 | 4.7653 | | 65,126.50 12 | 65,126.50 12 | 3.4406 | | 65,212.51 62 |
| Worker | 43.9857 | 26.4381 | 380.0838 | 1.2183 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 121,449.9 495 | 121,449.9 495 | 2.8679 | | 121,521.6 469 |
| Total | 48.8274 | 196.6570 | 428.0126 | 1.8271 | 147.9808 | 1.1111 | 149.0919 | 39.6063 | 1.0298 | 40.6360 | | 186,576.4 507 | 186,576.4 507 | 6.3085 | | 186,734.1 631 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0269 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.209 9 | 2,555.209 9 | 0.6079 | | 2,570.406 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.8417 | 170.2189 | 47.9288 | 0.6088 | 15.9170 | 0.1914 | 16.1084 | 4.5823 | 0.1829 | 4.7653 | | 65,126.50 12 | 65,126.50 12 | 3.4406 | | 65,212.51 62 |
| Worker | 43.9857 | 26.4381 | 380.0838 | 1.2183 | 132.0639 | 0.9197 | 132.9836 | 35.0240 | 0.8468 | 35.8708 | | 121,449.9 495 | 121,449.9 495 | 2.8679 | | 121,521.6 469 |
| Total | 48.8274 | 196.6570 | 428.0126 | 1.8271 | 147.9808 | 1.1111 | 149.0919 | 39.6063 | 1.0298 | 40.6360 | | 186,576.4 507 | 186,576.4 507 | 6.3085 | | 186,734.1 631 |

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7399 | 169.7966 | 46.5494 | 0.6062 | 15.9170 | 0.1894 | 16.1064 | 4.5823 | 0.1811 | 4.7634 | | 64,890.37 60 | 64,890.37 60 | 3.3871 | | 64,975.05 32 |
| Worker | 41.6285 | 24.0928 | 355.0457 | 1.1781 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 117,465.7 860 | 117,465.7 860 | 2.6291 | | 117,531.5 131 |
| Total | 46.3684 | 193.8894 | 401.5950 | 1.7843 | 147.9808 | 1.0970 | 149.0778 | 39.6063 | 1.0165 | 40.6228 | | 182,356.1 620 | 182,356.1 620 | 6.0162 | | 182,506.5 663 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,555.698 9 | 2,555.698 9 | 0.6044 | | 2,570.807 7 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.7399 | 169.7966 | 46.5494 | 0.6062 | 15.9170 | 0.1894 | 16.1064 | 4.5823 | 0.1811 | 4.7634 | | 64,890.37 60 | 64,890.37 60 | 3.3871 | | 64,975.05 32 |
| Worker | 41.6285 | 24.0928 | 355.0457 | 1.1781 | 132.0639 | 0.9076 | 132.9714 | 35.0240 | 0.8354 | 35.8594 | | 117,465.7 860 | 117,465.7 860 | 2.6291 | | 117,531.5 131 |
| Total | 46.3684 | 193.8894 | 401.5950 | 1.7843 | 147.9808 | 1.0970 | 149.0778 | 39.6063 | 1.0165 | 40.6228 | | 182,356.1 620 | 182,356.1 620 | 6.0162 | | 182,506.5 663 |

3.5 Building Construction - 2025

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6195 | 168.3163 | 45.3199 | 0.6023 | 15.9169 | 0.1866 | 16.1036 | 4.5823 | 0.1784 | 4.7607 | | 64,521.5182 | 64,521.5182 | 3.3333 | | 64,604.8495 |
| Worker | 39.5374 | 22.0332 | 330.0098 | 1.1316 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 112,841.5641 | 112,841.5641 | 2.3965 | | 112,901.4758 |
| Total | 44.1569 | 190.3495 | 375.3297 | 1.7339 | 147.9808 | 1.0768 | 149.0576 | 39.6063 | 0.9977 | 40.6040 | | 177,363.0823 | 177,363.0823 | 5.7297 | | 177,506.3253 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2025

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.6195 | 168.3163 | 45.3199 | 0.6023 | 15.9169 | 0.1866 | 16.1036 | 4.5823 | 0.1784 | 4.7607 | | 64,521.5182 | 64,521.5182 | 3.3333 | | 64,604.8495 |
| Worker | 39.5374 | 22.0332 | 330.0098 | 1.1316 | 132.0639 | 0.8902 | 132.9540 | 35.0240 | 0.8193 | 35.8433 | | 112,841.5641 | 112,841.5641 | 2.3965 | | 112,901.4758 |
| Total | 44.1569 | 190.3495 | 375.3297 | 1.7339 | 147.9808 | 1.0768 | 149.0576 | 39.6063 | 0.9977 | 40.6040 | | 177,363.0823 | 177,363.0823 | 5.7297 | | 177,506.3253 |

3.5 Building Construction - 2026

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5145 | 166.7505 | 44.3774 | 0.5987 | 15.9170 | 0.1834 | 16.1004 | 4.5823 | 0.1753 | 4.7576 | | 64,168.1188 | 64,168.1188 | 3.2799 | | 64,250.1168 |
| Worker | 37.7271 | 20.2858 | 308.6857 | 1.0913 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 108,845.8898 | 108,845.8898 | 2.1960 | | 108,900.7903 |
| Total | 42.2416 | 187.0363 | 353.0631 | 1.6900 | 147.9808 | 1.0442 | 149.0250 | 39.6063 | 0.9674 | 40.5737 | | 173,014.0087 | 173,014.0087 | 5.4759 | | 173,150.9071 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2026

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.5145 | 166.7505 | 44.3774 | 0.5987 | 15.9170 | 0.1834 | 16.1004 | 4.5823 | 0.1753 | 4.7576 | | 64,168.1188 | 64,168.1188 | 3.2799 | | 64,250.1168 |
| Worker | 37.7271 | 20.2858 | 308.6857 | 1.0913 | 132.0639 | 0.8608 | 132.9246 | 35.0240 | 0.7921 | 35.8161 | | 108,845.8898 | 108,845.8898 | 2.1960 | | 108,900.7903 |
| Total | 42.2416 | 187.0363 | 353.0631 | 1.6900 | 147.9808 | 1.0442 | 149.0250 | 39.6063 | 0.9674 | 40.5737 | | 173,014.0087 | 173,014.0087 | 5.4759 | | 173,150.9071 |

3.5 Building Construction - 2027

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.4263 | 165.2429 | 43.6159 | 0.5955 | 15.9170 | 0.1802 | 16.0973 | 4.5824 | 0.1723 | 4.7546 | | 63,853.6202 | 63,853.6202 | 3.2272 | | 63,934.3008 |
| Worker | 35.9581 | 18.7137 | 289.6816 | 1.0559 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 105,325.8876 | 105,325.8876 | 2.0156 | | 105,376.2768 |
| Total | 40.3844 | 183.9566 | 333.2975 | 1.6514 | 147.9809 | 0.9940 | 148.9749 | 39.6063 | 0.9210 | 40.5273 | | 169,179.5078 | 169,179.5078 | 5.2428 | | 169,310.5777 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2027

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|---------------------|---------------------|---------------|-----|---------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.4263 | 165.2429 | 43.6159 | 0.5955 | 15.9170 | 0.1802 | 16.0973 | 4.5824 | 0.1723 | 4.7546 | | 63,853.6202 | 63,853.6202 | 3.2272 | | 63,934.3008 |
| Worker | 35.9581 | 18.7137 | 289.6816 | 1.0559 | 132.0639 | 0.8138 | 132.8776 | 35.0240 | 0.7487 | 35.7727 | | 105,325.8876 | 105,325.8876 | 2.0156 | | 105,376.2768 |
| Total | 40.3844 | 183.9566 | 333.2975 | 1.6514 | 147.9809 | 0.9940 | 148.9749 | 39.6063 | 0.9210 | 40.5273 | | 169,179.5078 | 169,179.5078 | 5.2428 | | 169,310.5777 |

3.5 Building Construction - 2028

Unmitigated Construction On-Site

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

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.3511 | 163.9927 | 43.0323 | 0.5927 | 15.9171 | 0.1777 | 16.0948 | 4.5824 | 0.1698 | 4.7522 | | 63,585.57 97 | 63,585.57 97 | 3.1779 | | 63,665.02 66 |
| Worker | 34.1418 | 17.3032 | 273.0171 | 1.0247 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 102,228.4 965 | 102,228.4 965 | 1.8599 | | 102,274.9 938 |
| Total | 38.4929 | 181.2959 | 316.0494 | 1.6174 | 147.9810 | 0.9316 | 148.9126 | 39.6063 | 0.8634 | 40.4698 | | 165,814.0 762 | 165,814.0 762 | 5.0378 | | 165,940.0 204 |

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 | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 0.3278 | 2.2347 | 17.4603 | 0.0270 | | 0.0408 | 0.0408 | | 0.0408 | 0.0408 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.5 Building Construction - 2028

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|---------------|----------------|----------|--------------------------|--------------------------|---------------|-----|--------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 4.3511 | 163.9927 | 43.0323 | 0.5927 | 15.9171 | 0.1777 | 16.0948 | 4.5824 | 0.1698 | 4.7522 | | 63,585.57 97 | 63,585.57 97 | 3.1779 | | 63,665.02 66 |
| Worker | 34.1418 | 17.3032 | 273.0171 | 1.0247 | 132.0639 | 0.7539 | 132.8178 | 35.0240 | 0.6936 | 35.7175 | | 102,228.4 965 | 102,228.4 965 | 1.8599 | | 102,274.9 938 |
| Total | 38.4929 | 181.2959 | 316.0494 | 1.6174 | 147.9810 | 0.9316 | 148.9126 | 39.6063 | 0.8634 | 40.4698 | | 165,814.0 762 | 165,814.0 762 | 5.0378 | | 165,940.0 204 |

3.6 Paving - 2028

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.8868 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2028

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 | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |
| Total | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.2521 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2028

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 | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |
| Total | 0.0434 | 0.0220 | 0.3466 | 1.3000e-003 | 0.1677 | 9.6000e-004 | 0.1686 | 0.0445 | 8.8000e-004 | 0.0454 | | 129.7865 | 129.7865 | 2.3600e-003 | | 129.8455 |

3.6 Paving - 2029

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.8868 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2029

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 | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |
| Total | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |

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 | 0.2805 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 3.9717 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 4.2521 | 1.2154 | 17.2957 | 0.0228 | | 0.0374 | 0.0374 | | 0.0374 | 0.0374 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.6 Paving - 2029

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 | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |
| Total | 0.0408 | 0.0202 | 0.3258 | 1.2700e-003 | 0.1677 | 8.9000e-004 | 0.1686 | 0.0445 | 8.2000e-004 | 0.0453 | | 126.3032 | 126.3032 | 2.1700e-003 | | 126.3574 |

3.7 Architectural Coating - 2029

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.7185 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2029

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 | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |
| Total | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |

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 | 620.5476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0297 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 620.5774 | 0.1288 | 1.8324 | 2.9700e-003 | | 3.9600e-003 | 3.9600e-003 | | 3.9600e-003 | 3.9600e-003 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2029

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 | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |
| Total | 6.4224 | 3.1885 | 51.3267 | 0.1994 | 26.4128 | 0.1401 | 26.5529 | 7.0048 | 0.1289 | 7.1337 | | 19,896.95 85 | 19,896.95 85 | 0.3415 | | 19,905.49 62 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 | 95.1917 | 483.5141 | 1,453.3624 | 7.1180 | 729.3788 | 4.0798 | 733.4586 | 195.0784 | 3.7901 | 198.8685 | | 728,506.0008 | 728,506.0008 | 26.9152 | | 729,178.8817 |
| Unmitigated | 95.1917 | 483.5141 | 1,453.3624 | 7.1180 | 729.3788 | 4.0798 | 733.4586 | 195.0784 | 3.7901 | 198.8685 | | 728,506.0008 | 728,506.0008 | 26.9152 | | 729,178.8817 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|------------------|------------------|--------------------|--------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 41,307.00 | 48,978.30 | 35897.75 | 211,284,548 | 211,284,548 |
| Condo/Townhouse | 14,286.79 | 13,942.53 | 11901.56 | 70,530,430 | 70,530,430 |
| General Office Building | 4,605.80 | 1,027.22 | 438.45 | 16,744,204 | 16,744,204 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 60,199.59 | 63,948.05 | 48,237.76 | 298,559,182 | 298,559,182 |

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 High Rise | 21.84 | 8.76 | 12.92 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 21.84 | 8.76 | 12.92 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 24.66 | 12.48 | 10.25 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 24.66 | 12.48 | 10.25 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |
| NaturalGas Unmitigated | 4.1331 | 35.3891 | 15.5431 | 0.2254 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, 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 High Rise | 248352 | 2.6783 | 22.8874 | 9.7393 | 0.1461 | | 1.8505 | 1.8505 | | 1.8505 | 1.8505 | | 29,217.9226 | 29,217.9226 | 0.5600 | 0.5357 | 29,391.5501 |
| Condo/Townhouse | 122987 | 1.3263 | 11.3341 | 4.8230 | 0.0724 | | 0.9164 | 0.9164 | | 0.9164 | 0.9164 | | 14,469.0651 | 14,469.0651 | 0.2773 | 0.2653 | 14,555.0475 |
| General Office Building | 11909.3 | 0.1284 | 1.1676 | 0.9808 | 7.0100e-003 | | 0.0887 | 0.0887 | | 0.0887 | 0.0887 | | 1,401.0904 | 1,401.0904 | 0.0269 | 0.0257 | 1,409.4164 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4.1331 | 35.3891 | 15.5431 | 0.2255 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |

Santa Monica Housing Element - Future Project Operational - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments High Rise | 248.352 | 2.6783 | 22.8874 | 9.7393 | 0.1461 | | 1.8505 | 1.8505 | | 1.8505 | 1.8505 | | 29,217.9226 | 29,217.9226 | 0.5600 | 0.5357 | 29,391.5501 |
| Condo/Townhouse | 122.987 | 1.3263 | 11.3341 | 4.8230 | 0.0724 | | 0.9164 | 0.9164 | | 0.9164 | 0.9164 | | 14,469.0651 | 14,469.0651 | 0.2773 | 0.2653 | 14,555.0475 |
| General Office Building | 11.9093 | 0.1284 | 1.1676 | 0.9808 | 7.0100e-003 | | 0.0887 | 0.0887 | | 0.0887 | 0.0887 | | 1,401.0904 | 1,401.0904 | 0.0269 | 0.0257 | 1,409.4164 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4.1331 | 35.3891 | 15.5431 | 0.2255 | | 2.8556 | 2.8556 | | 2.8556 | 2.8556 | | 45,088.0781 | 45,088.0781 | 0.8642 | 0.8266 | 45,356.0140 |

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Leafblower
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

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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 | | | | | |
| Mitigated | 234.9274 | 11.6376 | 1,008.756 2 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | 0.0000 | 1,817.681 2 | 1,817.681 2 | 1.6671 | 0.0000 | 1,859.358 0 |
| Unmitigated | 256.5429 | 185.0246 | 1,087.108 4 | 1.1602 | | 19.6463 | 19.6463 | | 19.6463 | 19.6463 | 0.0000 | 223,124.1 971 | 223,124.1 971 | 5.9912 | 4.0571 | 224,482.9 811 |

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 | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 188.8385 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 20.2853 | 173.3471 | 73.7647 | 1.1065 | | 14.0153 | 14.0153 | | 14.0153 | 14.0153 | 0.0000 | 221,294.1 177 | 221,294.1 177 | 4.2415 | 4.0571 | 222,609.1 579 |
| Landscaping | 30.4179 | 11.6775 | 1,013.343 7 | 0.0537 | | 5.6310 | 5.6310 | | 5.6310 | 5.6310 | | 1,830.079 5 | 1,830.079 5 | 1.7498 | | 1,873.823 1 |
| Total | 256.5429 | 185.0246 | 1,087.108 4 | 1.1602 | | 19.6463 | 19.6463 | | 19.6463 | 19.6463 | 0.0000 | 223,124.1 971 | 223,124.1 971 | 5.9912 | 4.0571 | 224,482.9 811 |

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 17.0013 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 188.8385 | | | | | 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 | 29.0876 | 11.6376 | 1,008.756 2 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | | 1,817.681 2 | 1,817.681 2 | 1.6671 | | 1,859.358 0 |
| Total | 234.9274 | 11.6376 | 1,008.756 2 | 0.0532 | | 5.6238 | 5.6238 | | 5.6238 | 5.6238 | 0.0000 | 1,817.681 2 | 1,817.681 2 | 1.6671 | 0.0000 | 1,859.358 0 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

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9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|-----------|---------------|-------------|--------------------|------------|
| General Office Building | 417.57 | 1000sqft | 9.59 | 417,568.00 | 1769 |
| Parking Lot | 16,843.00 | Space | 151.59 | 6,737,200.00 | 0 |
| Apartments High Rise | 9,835.00 | Dwelling Unit | 158.63 | 7,199,366.00 | 19110 |
| Condo/Townhouse | 2,459.00 | Dwelling Unit | 153.69 | 1,799,842.00 | 4778 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 702.44 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - File Name Future Project Ops
12,294 DUs

Land Use - 732 ft2/DU
Total DU 20% Condo Townhouse and 80% Apartment High Rise

Construction Phase - Adjusted based on total DU

Demolition -

Vehicle Trips - Miles per trip adjusted based on Traffic Study

Woodstoves - No wood stoves
20% Gas Fireplace

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - All construction equipment Tier 4 final
Vehicle speed reduction 15 mph standard mitigation measure

Mobile Land Use Mitigation - Traffic mitigation addressed by traffic data in Transportation Impact Report for Santa Monica Housing Element 6th Cycle, Fehr & Peers, April 2021

Area Mitigation - Gas powered leaf blanners banned in City limits.
No fireplaces.

Coatings per SCAQMD Rule 1113 for building envelope coatings 50 g/l, default coatings 50 g/l, and traffic paint 100 g/l.

Energy Mitigation - On-site renewable energy use based City of Santa Monica Solar Ordinance of 2 watts per square foot building footprint = sufficient for 100% energy requirements

Water Mitigation - Green building code requires water efficient landscape and irrigation
50 Percent reduction per Los Angeles Coastal Cities Sustainable Landscaping Fundamentals, www.sm.watersavingplants.com

| Table Name | Column Name | Default Value | New Value |
|-------------------------|------------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |

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| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 550.00 | 100.00 |
| tblConstructionPhase | NumDays | 7,750.00 | 1,500.00 |
| tblConstructionPhase | NumDays | 500.00 | 100.00 |
| tblConstructionPhase | NumDays | 775.00 | 150.00 |

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| | | | |
|----------------------|-------------------|--------------|--------------|
| tblConstructionPhase | NumDays | 550.00 | 100.00 |
| tblConstructionPhase | NumDays | 300.00 | 50.00 |
| tblFireplaces | NumberGas | 8,359.75 | 8,360.00 |
| tblFireplaces | NumberGas | 2,090.15 | 2,090.00 |
| tblFireplaces | NumberNoFireplace | 983.50 | 1,475.00 |
| tblFireplaces | NumberNoFireplace | 245.90 | 369.00 |
| tblFireplaces | NumberWood | 491.75 | 0.00 |
| tblFireplaces | NumberWood | 122.95 | 0.00 |
| tblGrading | AcresOfGrading | 375.00 | 1,937.50 |
| tblLandUse | LandUseSquareFeet | 417,570.00 | 417,568.00 |
| tblLandUse | LandUseSquareFeet | 9,835,000.00 | 7,199,366.00 |
| tblLandUse | LandUseSquareFeet | 2,459,000.00 | 1,799,842.00 |
| tblLandUse | Population | 0.00 | 1,769.00 |
| tblLandUse | Population | 28,128.00 | 19,110.00 |
| tblLandUse | Population | 7,033.00 | 4,778.00 |
| tblVehicleTrips | CC_TL | 8.40 | 12.48 |
| tblVehicleTrips | CC_TL | 8.40 | 12.48 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.25 |
| tblVehicleTrips | CNW_TL | 6.90 | 10.25 |
| tblVehicleTrips | CW_TL | 16.60 | 24.66 |
| tblVehicleTrips | CW_TL | 16.60 | 24.66 |
| tblVehicleTrips | HO_TL | 8.70 | 12.92 |
| tblVehicleTrips | HO_TL | 8.70 | 12.92 |
| tblVehicleTrips | HS_TL | 5.90 | 8.76 |
| tblVehicleTrips | HS_TL | 5.90 | 8.76 |
| tblVehicleTrips | HW_TL | 14.70 | 21.84 |
| tblVehicleTrips | HW_TL | 14.70 | 21.84 |

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| | | | |
|-------------------|---|--------|------|
| tbWaterMitigation | UseWaterEfficientIrrigationSystemPercentReduction | 6.1 | 50 |
| tbWoodstoves | NumberCatalytic | 491.75 | 0.00 |
| tbWoodstoves | NumberCatalytic | 122.95 | 0.00 |
| tbWoodstoves | NumberNoncatalytic | 491.75 | 0.00 |
| tbWoodstoves | NumberNoncatalytic | 122.95 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.4574 | 5.5224 | 3.4872 | 0.0105 | 3.0654 | 0.1969 | 3.2623 | 0.7485 | 0.1819 | 0.9304 | 0.0000 | 959.8569 | 959.8569 | 0.1989 | 0.0000 | 964.8302 |
| 2023 | 5.5764 | 24.4481 | 46.4783 | 0.1979 | 17.1454 | 0.2289 | 17.3743 | 4.4651 | 0.2130 | 4.6781 | 0.0000 | 18,319.5155 | 18,319.5155 | 0.7214 | 0.0000 | 18,337.5492 |
| 2024 | 6.2322 | 27.7491 | 51.3609 | 0.2288 | 19.0346 | 0.2245 | 19.2591 | 5.1023 | 0.2092 | 5.3115 | 0.0000 | 21,200.6409 | 21,200.6409 | 0.7815 | 0.0000 | 21,220.1791 |
| 2025 | 5.9145 | 27.0146 | 47.9417 | 0.2216 | 18.9619 | 0.2098 | 19.1717 | 5.0828 | 0.1954 | 5.2782 | 0.0000 | 20,556.1770 | 20,556.1770 | 0.7452 | 0.0000 | 20,574.8061 |
| 2026 | 5.6727 | 26.5474 | 45.2190 | 0.2162 | 18.9619 | 0.2055 | 19.1674 | 5.0828 | 0.1914 | 5.2742 | 0.0000 | 20,064.9042 | 20,064.9042 | 0.7159 | 0.0000 | 20,082.8016 |
| 2027 | 5.4371 | 26.1132 | 42.8027 | 0.2114 | 18.9619 | 0.1989 | 19.1608 | 5.0828 | 0.1853 | 5.2681 | 0.0000 | 19,631.3043 | 19,631.3043 | 0.6890 | 0.0000 | 19,648.5289 |
| 2028 | 4.7591 | 23.3808 | 36.9842 | 0.1876 | 17.1477 | 0.1777 | 17.3254 | 4.5965 | 0.1655 | 4.7620 | 0.0000 | 17,433.0934 | 17,433.0934 | 0.6097 | 0.0000 | 17,448.3357 |
| 2029 | 31.8567 | 0.5657 | 3.0326 | 0.0106 | 1.3155 | 0.0256 | 1.3411 | 0.3494 | 0.0238 | 0.3731 | 0.0000 | 959.7839 | 959.7839 | 0.0401 | 0.0000 | 960.7874 |
| Maximum | 31.8567 | 27.7491 | 51.3609 | 0.2288 | 19.0346 | 0.2289 | 19.2591 | 5.1023 | 0.2130 | 5.3115 | 0.0000 | 21,200.6409 | 21,200.6409 | 0.7815 | 0.0000 | 21,220.1791 |

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2.1 Overall Construction

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.1222 | 1.5895 | 3.8690 | 0.0105 | 1.4425 | 0.0140 | 1.4565 | 0.3540 | 0.0138 | 0.3678 | 0.0000 | 959.8563 | 959.8563 | 0.1989 | 0.0000 | 964.8295 |
| 2023 | 5.3870 | 22.4717 | 46.7135 | 0.1979 | 16.5087 | 0.1293 | 16.6379 | 4.3664 | 0.1203 | 4.4866 | 0.0000 | 18,319.5150 | 18,319.5150 | 0.7214 | 0.0000 | 18,337.5487 |
| 2024 | 6.0824 | 26.2807 | 51.5304 | 0.2288 | 19.0346 | 0.1495 | 19.1841 | 5.1023 | 0.1389 | 5.2412 | 0.0000 | 21,200.6405 | 21,200.6405 | 0.7815 | 0.0000 | 21,220.1788 |
| 2025 | 5.7789 | 25.6789 | 48.1212 | 0.2216 | 18.9619 | 0.1463 | 19.1082 | 5.0828 | 0.1359 | 5.2187 | 0.0000 | 20,556.1767 | 20,556.1767 | 0.7452 | 0.0000 | 20,574.8057 |
| 2026 | 5.5370 | 25.2118 | 45.3985 | 0.2162 | 18.9619 | 0.1420 | 19.1039 | 5.0828 | 0.1319 | 5.2147 | 0.0000 | 20,064.9038 | 20,064.9038 | 0.7159 | 0.0000 | 20,082.8013 |
| 2027 | 5.3015 | 24.7775 | 42.9822 | 0.2114 | 18.9619 | 0.1354 | 19.0973 | 5.0828 | 0.1258 | 5.2086 | 0.0000 | 19,631.3039 | 19,631.3039 | 0.6890 | 0.0000 | 19,648.5285 |
| 2028 | 4.6285 | 22.0810 | 37.1805 | 0.1876 | 17.1477 | 0.1155 | 17.2632 | 4.5965 | 0.1074 | 4.7039 | 0.0000 | 17,433.0931 | 17,433.0931 | 0.6097 | 0.0000 | 17,448.3354 |
| 2029 | 31.8254 | 0.2345 | 3.1370 | 0.0106 | 1.3155 | 8.7300e-003 | 1.3242 | 0.3494 | 8.1600e-003 | 0.3575 | 0.0000 | 959.7838 | 959.7838 | 0.0401 | 0.0000 | 960.7873 |
| Maximum | 31.8254 | 26.2807 | 51.5304 | 0.2288 | 19.0346 | 0.1495 | 19.1841 | 5.1023 | 0.1389 | 5.2412 | 0.0000 | 21,200.6405 | 21,200.6405 | 0.7815 | 0.0000 | 21,220.1788 |

| | ROG | NOx | CO | SO2 | 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 | 1.89 | 8.07 | -0.59 | 0.00 | 1.97 | 42.73 | 2.49 | 1.62 | 42.70 | 3.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| 1 | 1-3-2022 | 4-2-2022 | 1.7276 | 0.8954 |
| 2 | 4-3-2022 | 7-2-2022 | 1.4491 | 0.5107 |

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| | | | | |
|----|-----------|-----------|--------|--------|
| 3 | 7-3-2022 | 10-2-2022 | 1.3481 | 0.1221 |
| 4 | 10-3-2022 | 1-2-2023 | 1.3967 | 0.1381 |
| 5 | 1-3-2023 | 4-2-2023 | 4.0981 | 3.2551 |
| 6 | 4-3-2023 | 7-2-2023 | 8.4969 | 8.0615 |
| 7 | 7-3-2023 | 10-2-2023 | 8.5945 | 8.1544 |
| 8 | 10-3-2023 | 1-2-2024 | 8.7826 | 8.3432 |
| 9 | 1-3-2024 | 4-2-2024 | 8.4747 | 8.0732 |
| 10 | 4-3-2024 | 7-2-2024 | 8.2931 | 7.8917 |
| 11 | 7-3-2024 | 10-2-2024 | 8.3883 | 7.9825 |
| 12 | 10-3-2024 | 1-2-2025 | 8.5669 | 8.1618 |
| 13 | 1-3-2025 | 4-2-2025 | 8.1530 | 7.7906 |
| 14 | 4-3-2025 | 7-2-2025 | 8.0712 | 7.7047 |
| 15 | 7-3-2025 | 10-2-2025 | 8.1637 | 7.7933 |
| 16 | 10-3-2025 | 1-2-2026 | 8.3342 | 7.9638 |
| 17 | 1-3-2026 | 4-2-2026 | 7.9775 | 7.6151 |
| 18 | 4-3-2026 | 7-2-2026 | 7.9012 | 7.5348 |
| 19 | 7-3-2026 | 10-2-2026 | 7.9918 | 7.6213 |
| 20 | 10-3-2026 | 1-2-2027 | 8.1549 | 7.7844 |
| 21 | 1-3-2027 | 4-2-2027 | 7.8111 | 7.4487 |
| 22 | 4-3-2027 | 7-2-2027 | 7.7408 | 7.3744 |
| 23 | 7-3-2027 | 10-2-2027 | 7.8294 | 7.4589 |
| 24 | 10-3-2027 | 1-2-2028 | 7.9848 | 7.6144 |
| 25 | 1-3-2028 | 4-2-2028 | 7.7417 | 7.3752 |
| 26 | 4-3-2028 | 7-2-2028 | 7.5928 | 7.2264 |
| 27 | 7-3-2028 | 10-2-2028 | 7.6796 | 7.3092 |
| 28 | 10-3-2028 | 1-2-2029 | 4.9451 | 4.6139 |
| 29 | 1-3-2029 | 4-2-2029 | 0.4351 | 0.1779 |

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| | | | | |
|----|----------|-----------|---------|---------|
| 30 | 4-3-2029 | 7-2-2029 | 17.6587 | 17.5865 |
| 31 | 7-3-2029 | 9-30-2029 | 14.2082 | 14.1821 |
| | | Highest | 17.6587 | 17.5865 |

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 | 41.6216 | 3.6265 | 127.5900 | 0.0205 | | 0.8791 | 0.8791 | | 0.8791 | 0.8791 | 0.0000 | 2,716.9606 | 2,716.9606 | 0.2465 | 0.0460 | 2,736.8334 |
| Energy | 0.7543 | 6.4585 | 2.8366 | 0.0411 | | 0.5211 | 0.5211 | | 0.5211 | 0.5211 | 0.0000 | 26,257.8209 | 26,257.8209 | 0.9189 | 0.2974 | 26,369.4132 |
| Mobile | 14.1332 | 79.2656 | 216.0750 | 1.0846 | 113.4095 | 0.6459 | 114.0553 | 30.3784 | 0.6000 | 30.9784 | 0.0000 | 100,798.6586 | 100,798.6586 | 3.8391 | 0.0000 | 100,894.6356 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,226.7921 | 0.0000 | 1,226.7921 | 72.5013 | 0.0000 | 3,039.3256 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 277.6669 | 5,579.6782 | 5,857.3451 | 28.7494 | 0.7211 | 6,790.9550 |
| Total | 56.5090 | 89.3507 | 346.5016 | 1.1463 | 113.4095 | 2.0461 | 115.4555 | 30.3784 | 2.0002 | 32.3786 | 1,504.4590 | 135,353.183 | 136,857.5773 | 106.2553 | 1.0645 | 139,831.1627 |

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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 | 41.2017 | 1.4547 | 126.0945 | 6.6500e-003 | | 0.7030 | 0.7030 | | 0.7030 | 0.7030 | 0.0000 | 206.1216 | 206.1216 | 0.1890 | 0.0000 | 210.8477 |
| Energy | 0.7543 | 6.4585 | 2.8366 | 0.0411 | | 0.5211 | 0.5211 | | 0.5211 | 0.5211 | 0.0000 | 7,464.8370 | 7,464.8370 | 0.1431 | 0.1369 | 7,509.1968 |
| Mobile | 14.1332 | 79.2656 | 216.0750 | 1.0846 | 113.4095 | 0.6459 | 114.0553 | 30.3784 | 0.6000 | 30.9784 | 0.0000 | 100,798.6586 | 100,798.6586 | 3.8391 | 0.0000 | 100,894.6356 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1,226.7921 | 0.0000 | 1,226.7921 | 72.5013 | 0.0000 | 3,039.3256 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 222.1335 | 3,879.1648 | 4,101.2983 | 22.9754 | 0.5719 | 4,846.0949 |
| Total | 56.0892 | 87.1788 | 345.0061 | 1.1324 | 113.4095 | 1.8700 | 115.2794 | 30.3784 | 1.8241 | 32.2025 | 1,448.9256 | 112,348.7819 | 113,797.7076 | 99.6479 | 0.7087 | 116,500.1005 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|-------|
| Percent Reduction | 0.74 | 2.43 | 0.43 | 1.21 | 0.00 | 8.61 | 0.15 | 0.00 | 8.80 | 0.54 | 3.69 | 17.00 | 16.85 | 6.22 | 33.42 | 16.69 |

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/3/2022 | 5/20/2022 | 5 | 100 | |
| 2 | Site Preparation | Site Preparation | 5/23/2022 | 8/1/2022 | 5 | 50 | |
| 3 | Grading | Grading | 8/1/2022 | 2/27/2023 | 5 | 150 | |
| 4 | Building Construction | Building Construction | 2/27/2023 | 11/27/2028 | 5 | 1500 | |
| 5 | Paving | Paving | 11/27/2028 | 4/16/2029 | 5 | 100 | |
| 6 | Architectural Coating | Architectural Coating | 4/16/2029 | 9/3/2029 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1937.5

Acres of Paving: 151.59

Residential Indoor: 18,223,396; Residential Outdoor: 6,074,465; Non-Residential Indoor: 626,352; Non-Residential Outdoor: 208,784; Striped Parking Area: 404,232 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6 | 15.00 | 0.00 | 10,393.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 11,815.00 | 2,487.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 2,363.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.1246 | 0.0000 | 1.1246 | 0.1703 | 0.0000 | 0.1703 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1320 | 1.2860 | 1.0297 | 1.9400e-003 | | 0.0621 | 0.0621 | | 0.0578 | 0.0578 | 0.0000 | 169.9511 | 169.9511 | 0.0477 | 0.0000 | 171.1446 |
| Total | 0.1320 | 1.2860 | 1.0297 | 1.9400e-003 | 1.1246 | 0.0621 | 1.1867 | 0.1703 | 0.0578 | 0.2280 | 0.0000 | 169.9511 | 169.9511 | 0.0477 | 0.0000 | 171.1446 |

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0362 | 1.2500 | 0.2836 | 3.9000e-003 | 0.0893 | 3.5300e-003 | 0.0929 | 0.0245 | 3.3700e-003 | 0.0279 | 0.0000 | 383.4200 | 383.4200 | 0.0261 | 0.0000 | 384.0718 |
| 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 | 2.9400e-003 | 2.0900e-003 | 0.0241 | 8.0000e-005 | 8.2300e-003 | 6.0000e-005 | 8.2900e-003 | 2.1900e-003 | 6.0000e-005 | 2.2400e-003 | 0.0000 | 6.9105 | 6.9105 | 1.7000e-004 | 0.0000 | 6.9148 |
| Total | 0.0392 | 1.2521 | 0.3078 | 3.9800e-003 | 0.0976 | 3.5900e-003 | 0.1012 | 0.0267 | 3.4300e-003 | 0.0301 | 0.0000 | 390.3305 | 390.3305 | 0.0262 | 0.0000 | 390.9866 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5061 | 0.0000 | 0.5061 | 0.0766 | 0.0000 | 0.0766 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0231 | 0.1002 | 1.1640 | 1.9400e-003 | | 3.0800e-003 | 3.0800e-003 | | 3.0800e-003 | 3.0800e-003 | 0.0000 | 169.9509 | 169.9509 | 0.0477 | 0.0000 | 171.1444 |
| Total | 0.0231 | 0.1002 | 1.1640 | 1.9400e-003 | 0.5061 | 3.0800e-003 | 0.5091 | 0.0766 | 3.0800e-003 | 0.0797 | 0.0000 | 169.9509 | 169.9509 | 0.0477 | 0.0000 | 171.1444 |

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3.2 Demolition - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0362 | 1.2500 | 0.2836 | 3.9000e-003 | 0.0893 | 3.5300e-003 | 0.0929 | 0.0245 | 3.3700e-003 | 0.0279 | 0.0000 | 383.4200 | 383.4200 | 0.0261 | 0.0000 | 384.0718 |
| 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 | 2.9400e-003 | 2.0900e-003 | 0.0241 | 8.0000e-005 | 8.2300e-003 | 6.0000e-005 | 8.2900e-003 | 2.1900e-003 | 6.0000e-005 | 2.2400e-003 | 0.0000 | 6.9105 | 6.9105 | 1.7000e-004 | 0.0000 | 6.9148 |
| Total | 0.0392 | 1.2521 | 0.3078 | 3.9800e-003 | 0.0976 | 3.5900e-003 | 0.1012 | 0.0267 | 3.4300e-003 | 0.0301 | 0.0000 | 390.3305 | 390.3305 | 0.0262 | 0.0000 | 390.9866 |

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.4607 | 0.0000 | 0.4607 | 0.2532 | 0.0000 | 0.2532 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0808 | 0.8436 | 0.5023 | 9.7000e-004 | | 0.0411 | 0.0411 | | 0.0378 | 0.0378 | 0.0000 | 85.2705 | 85.2705 | 0.0276 | 0.0000 | 85.9599 |
| Total | 0.0808 | 0.8436 | 0.5023 | 9.7000e-004 | 0.4607 | 0.0411 | 0.5018 | 0.2532 | 0.0378 | 0.2911 | 0.0000 | 85.2705 | 85.2705 | 0.0276 | 0.0000 | 85.9599 |

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |
| Total | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2073 | 0.0000 | 0.2073 | 0.1140 | 0.0000 | 0.1140 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0119 | 0.0515 | 0.5322 | 9.7000e-004 | | 1.5800e-003 | 1.5800e-003 | | 1.5800e-003 | 1.5800e-003 | 0.0000 | 85.2703 | 85.2703 | 0.0276 | 0.0000 | 85.9598 |
| Total | 0.0119 | 0.0515 | 0.5322 | 9.7000e-004 | 0.2073 | 1.5800e-003 | 0.2089 | 0.1140 | 1.5800e-003 | 0.1155 | 0.0000 | 85.2703 | 85.2703 | 0.0276 | 0.0000 | 85.9598 |

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |
| Total | 1.8000e-003 | 1.2800e-003 | 0.0148 | 5.0000e-005 | 5.0400e-003 | 4.0000e-005 | 5.0700e-003 | 1.3400e-003 | 3.0000e-005 | 1.3700e-003 | 0.0000 | 4.2292 | 4.2292 | 1.1000e-004 | 0.0000 | 4.2319 |

3.4 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.3654 | 0.0000 | 1.3654 | 0.2937 | 0.0000 | 0.2937 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1994 | 2.1364 | 1.5973 | 3.4100e-003 | | 0.0899 | 0.0899 | | 0.0827 | 0.0827 | 0.0000 | 299.9403 | 299.9403 | 0.0970 | 0.0000 | 302.3655 |
| Total | 0.1994 | 2.1364 | 1.5973 | 3.4100e-003 | 1.3654 | 0.0899 | 1.4553 | 0.2937 | 0.0827 | 0.3765 | 0.0000 | 299.9403 | 299.9403 | 0.0970 | 0.0000 | 302.3655 |

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3.4 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |
| Total | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.6144 | 0.0000 | 0.6144 | 0.1322 | 0.0000 | 0.1322 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0419 | 0.1815 | 1.8150 | 3.4100e-003 | | 5.5800e-003 | 5.5800e-003 | | 5.5800e-003 | 5.5800e-003 | 0.0000 | 299.9399 | 299.9399 | 0.0970 | 0.0000 | 302.3651 |
| Total | 0.0419 | 0.1815 | 1.8150 | 3.4100e-003 | 0.6144 | 5.5800e-003 | 0.6200 | 0.1322 | 5.5800e-003 | 0.1378 | 0.0000 | 299.9399 | 299.9399 | 0.0970 | 0.0000 | 302.3651 |

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3.4 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |
| Total | 4.3100e-003 | 3.0600e-003 | 0.0354 | 1.1000e-004 | 0.0121 | 9.0000e-005 | 0.0122 | 3.2100e-003 | 8.0000e-005 | 3.2900e-003 | 0.0000 | 10.1354 | 10.1354 | 2.5000e-004 | 0.0000 | 10.1417 |

3.4 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.1577 | 0.0000 | 1.1577 | 0.1795 | 0.0000 | 0.1795 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0681 | 0.7076 | 0.5751 | 1.2700e-003 | | 0.0292 | 0.0292 | | 0.0269 | 0.0269 | 0.0000 | 111.7972 | 111.7972 | 0.0362 | 0.0000 | 112.7011 |
| Total | 0.0681 | 0.7076 | 0.5751 | 1.2700e-003 | 1.1577 | 0.0292 | 1.1869 | 0.1795 | 0.0269 | 0.2064 | 0.0000 | 111.7972 | 111.7972 | 0.0362 | 0.0000 | 112.7011 |

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3.4 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |
| Total | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5210 | 0.0000 | 0.5210 | 0.0808 | 0.0000 | 0.0808 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0156 | 0.0677 | 0.6765 | 1.2700e-003 | | 2.0800e-003 | 2.0800e-003 | | 2.0800e-003 | 2.0800e-003 | 0.0000 | 111.7970 | 111.7970 | 0.0362 | 0.0000 | 112.7010 |
| Total | 0.0156 | 0.0677 | 0.6765 | 1.2700e-003 | 0.5210 | 2.0800e-003 | 0.5230 | 0.0808 | 2.0800e-003 | 0.0829 | 0.0000 | 111.7970 | 111.7970 | 0.0362 | 0.0000 | 112.7010 |

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3.4 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |
| Total | 1.5100e-003 | 1.0300e-003 | 0.0122 | 4.0000e-005 | 4.5000e-003 | 3.0000e-005 | 4.5300e-003 | 1.1900e-003 | 3.0000e-005 | 1.2200e-003 | 0.0000 | 3.6368 | 3.6368 | 9.0000e-005 | 0.0000 | 3.6390 |

3.5 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1730 | 1.5823 | 1.7868 | 2.9600e-003 | | 0.0770 | 0.0770 | | 0.0724 | 0.0724 | 0.0000 | 254.9852 | 254.9852 | 0.0607 | 0.0000 | 256.5017 |
| Total | 0.1730 | 1.5823 | 1.7868 | 2.9600e-003 | | 0.0770 | 0.0770 | | 0.0724 | 0.0724 | 0.0000 | 254.9852 | 254.9852 | 0.0607 | 0.0000 | 256.5017 |

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.5447 | 18.8858 | 5.5454 | 0.0662 | 1.7244 | 0.0215 | 1.7459 | 0.4976 | 0.0205 | 0.5181 | 0.0000 | 6,420.7568 | 6,420.7568 | 0.3534 | 0.0000 | 6,429.5911 |
| Worker | 4.7891 | 3.2714 | 38.5588 | 0.1275 | 14.2589 | 0.1012 | 14.3600 | 3.7868 | 0.0932 | 3.8800 | 0.0000 | 11,528.3394 | 11,528.3394 | 0.2711 | 0.0000 | 11,535.1163 |
| Total | 5.3338 | 22.1572 | 44.1042 | 0.1936 | 15.9832 | 0.1227 | 16.1059 | 4.2844 | 0.1137 | 4.3981 | 0.0000 | 17,949.0962 | 17,949.0962 | 0.6245 | 0.0000 | 17,964.7074 |

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 | 0.0361 | 0.2458 | 1.9206 | 2.9600e-003 | | 4.4900e-003 | 4.4900e-003 | | 4.4900e-003 | 4.4900e-003 | 0.0000 | 254.9849 | 254.9849 | 0.0607 | 0.0000 | 256.5013 |
| Total | 0.0361 | 0.2458 | 1.9206 | 2.9600e-003 | | 4.4900e-003 | 4.4900e-003 | | 4.4900e-003 | 4.4900e-003 | 0.0000 | 254.9849 | 254.9849 | 0.0607 | 0.0000 | 256.5013 |

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.5447 | 18.8858 | 5.5454 | 0.0662 | 1.7244 | 0.0215 | 1.7459 | 0.4976 | 0.0205 | 0.5181 | 0.0000 | 6,420.7568 | 6,420.7568 | 0.3534 | 0.0000 | 6,429.5911 |
| Worker | 4.7891 | 3.2714 | 38.5588 | 0.1275 | 14.2589 | 0.1012 | 14.3600 | 3.7868 | 0.0932 | 3.8800 | 0.0000 | 11,528.3394 | 11,528.3394 | 0.2711 | 0.0000 | 11,535.1163 |
| Total | 5.3338 | 22.1572 | 44.1042 | 0.1936 | 15.9832 | 0.1227 | 16.1059 | 4.2844 | 0.1137 | 4.3981 | 0.0000 | 17,949.0962 | 17,949.0962 | 0.6245 | 0.0000 | 17,964.7074 |

3.5 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7223 | 303.7223 | 0.0718 | 0.0000 | 305.5179 |
| Total | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7223 | 303.7223 | 0.0718 | 0.0000 | 305.5179 |

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3.5 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6348 | 22.4384 | 6.4120 | 0.0785 | 2.0536 | 0.0253 | 2.0788 | 0.5925 | 0.0242 | 0.6167 | 0.0000 | 7,619.5228 | 7,619.5228 | 0.4141 | 0.0000 | 7,629.8748 |
| Worker | 5.4046 | 3.5496 | 42.8310 | 0.1468 | 16.9810 | 0.1189 | 17.0999 | 4.5098 | 0.1094 | 4.6192 | 0.0000 | 13,277.3957 | 13,277.3957 | 0.2956 | 0.0000 | 13,284.7865 |
| Total | 6.0394 | 25.9879 | 49.2431 | 0.2252 | 19.0346 | 0.1442 | 19.1787 | 5.1023 | 0.1336 | 5.2359 | 0.0000 | 20,896.9186 | 20,896.9186 | 0.7097 | 0.0000 | 20,914.6613 |

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 | 0.0429 | 0.2928 | 2.2873 | 3.5300e-003 | | 5.3400e-003 | 5.3400e-003 | | 5.3400e-003 | 5.3400e-003 | 0.0000 | 303.7220 | 303.7220 | 0.0718 | 0.0000 | 305.5175 |
| Total | 0.0429 | 0.2928 | 2.2873 | 3.5300e-003 | | 5.3400e-003 | 5.3400e-003 | | 5.3400e-003 | 5.3400e-003 | 0.0000 | 303.7220 | 303.7220 | 0.0718 | 0.0000 | 305.5175 |

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3.5 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6348 | 22.4384 | 6.4120 | 0.0785 | 2.0536 | 0.0253 | 2.0788 | 0.5925 | 0.0242 | 0.6167 | 0.0000 | 7,619.5228 | 7,619.5228 | 0.4141 | 0.0000 | 7,629.8748 |
| Worker | 5.4046 | 3.5496 | 42.8310 | 0.1468 | 16.9810 | 0.1189 | 17.0999 | 4.5098 | 0.1094 | 4.6192 | 0.0000 | 13,277.3957 | 13,277.3957 | 0.2956 | 0.0000 | 13,284.7865 |
| Total | 6.0394 | 25.9879 | 49.2431 | 0.2252 | 19.0346 | 0.1442 | 19.1787 | 5.1023 | 0.1336 | 5.2359 | 0.0000 | 20,896.9186 | 20,896.9186 | 0.7097 | 0.0000 | 20,914.6613 |

3.5 Building Construction - 2025

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| Total | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |

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3.5 Building Construction - 2025

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6163 | 22.1540 | 6.2181 | 0.0777 | 2.0457 | 0.0248 | 2.0705 | 0.5903 | 0.0237 | 0.6140 | 0.0000 | 7,547.824 4 | 7,547.824 4 | 0.4057 | 0.0000 | 7,557.967 7 |
| Worker | 5.1198 | 3.2332 | 39.6245 | 0.1404 | 16.9162 | 0.1162 | 17.0324 | 4.4925 | 0.1069 | 4.5995 | 0.0000 | 12,705.69 77 | 12,705.69 77 | 0.2683 | 0.0000 | 12,712.40 49 |
| Total | 5.7361 | 25.3873 | 45.8426 | 0.2181 | 18.9619 | 0.1409 | 19.1029 | 5.0828 | 0.1306 | 5.2134 | 0.0000 | 20,253.52 22 | 20,253.52 22 | 0.6740 | 0.0000 | 20,270.37 26 |

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 | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| Total | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |

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3.5 Building Construction - 2025

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.6163 | 22.1540 | 6.2181 | 0.0777 | 2.0457 | 0.0248 | 2.0705 | 0.5903 | 0.0237 | 0.6140 | 0.0000 | 7,547.824 4 | 7,547.824 4 | 0.4057 | 0.0000 | 7,557.967 7 |
| Worker | 5.1198 | 3.2332 | 39.6245 | 0.1404 | 16.9162 | 0.1162 | 17.0324 | 4.4925 | 0.1069 | 4.5995 | 0.0000 | 12,705.69 77 | 12,705.69 77 | 0.2683 | 0.0000 | 12,712.40 49 |
| Total | 5.7361 | 25.3873 | 45.8426 | 0.2181 | 18.9619 | 0.1409 | 19.1029 | 5.0828 | 0.1306 | 5.2134 | 0.0000 | 20,253.52 22 | 20,253.52 22 | 0.6740 | 0.0000 | 20,270.37 26 |

3.5 Building Construction - 2026

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 | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| Total | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |

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3.5 Building Construction - 2026

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 | 0.6022 | 21.9436 | 6.0879 | 0.0772 | 2.0457 | 0.0243 | 2.0700 | 0.5903 | 0.0232 | 0.6135 | 0.0000 | 7,507.0099 | 7,507.0099 | 0.3991 | 0.0000 | 7,516.9861 |
| Worker | 4.8920 | 2.9765 | 37.0320 | 0.1354 | 16.9162 | 0.1123 | 17.0285 | 4.4925 | 0.1034 | 4.5959 | 0.0000 | 12,255.2393 | 12,255.2393 | 0.2457 | 0.0000 | 12,261.3821 |
| Total | 5.4942 | 24.9202 | 43.1199 | 0.2127 | 18.9619 | 0.1366 | 19.0986 | 5.0828 | 0.1266 | 5.2094 | 0.0000 | 19,762.2493 | 19,762.2493 | 0.6448 | 0.0000 | 19,778.3681 |

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 | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| Total | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |

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3.5 Building Construction - 2026

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 | 0.6022 | 21.9436 | 6.0879 | 0.0772 | 2.0457 | 0.0243 | 2.0700 | 0.5903 | 0.0232 | 0.6135 | 0.0000 | 7,507.0099 | 7,507.0099 | 0.3991 | 0.0000 | 7,516.9861 |
| Worker | 4.8920 | 2.9765 | 37.0320 | 0.1354 | 16.9162 | 0.1123 | 17.0285 | 4.4925 | 0.1034 | 4.5959 | 0.0000 | 12,255.2393 | 12,255.2393 | 0.2457 | 0.0000 | 12,261.3821 |
| Total | 5.4942 | 24.9202 | 43.1199 | 0.2127 | 18.9619 | 0.1366 | 19.0986 | 5.0828 | 0.1266 | 5.2094 | 0.0000 | 19,762.2493 | 19,762.2493 | 0.6448 | 0.0000 | 19,778.3681 |

3.5 Building Construction - 2027

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 | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| Total | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |

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3.5 Building Construction - 2027

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 | 0.5904 | 21.7404 | 5.9828 | 0.0768 | 2.0457 | 0.0238 | 2.0696 | 0.5903 | 0.0228 | 0.6131 | 0.0000 | 7,470.6030 | 7,470.6030 | 0.3925 | 0.0000 | 7,480.4142 |
| Worker | 4.6683 | 2.7455 | 34.7208 | 0.1310 | 16.9162 | 0.1062 | 17.0224 | 4.4925 | 0.0977 | 4.5903 | 0.0000 | 11,858.0464 | 11,858.0464 | 0.2254 | 0.0000 | 11,863.6811 |
| Total | 5.2587 | 24.4859 | 40.7036 | 0.2078 | 18.9619 | 0.1300 | 19.0920 | 5.0828 | 0.1205 | 5.2033 | 0.0000 | 19,328.6494 | 19,328.6494 | 0.6178 | 0.0000 | 19,344.0954 |

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 | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| Total | 0.0428 | 0.2916 | 2.2786 | 3.5200e-003 | | 5.3200e-003 | 5.3200e-003 | | 5.3200e-003 | 5.3200e-003 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |

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3.5 Building Construction - 2027

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 | 0.5904 | 21.7404 | 5.9828 | 0.0768 | 2.0457 | 0.0238 | 2.0696 | 0.5903 | 0.0228 | 0.6131 | 0.0000 | 7,470.6030 | 7,470.6030 | 0.3925 | 0.0000 | 7,480.4142 |
| Worker | 4.6683 | 2.7455 | 34.7208 | 0.1310 | 16.9162 | 0.1062 | 17.0224 | 4.4925 | 0.0977 | 4.5903 | 0.0000 | 11,858.0464 | 11,858.0464 | 0.2254 | 0.0000 | 11,863.6811 |
| Total | 5.2587 | 24.4859 | 40.7036 | 0.2078 | 18.9619 | 0.1300 | 19.0920 | 5.0828 | 0.1205 | 5.2033 | 0.0000 | 19,328.6494 | 19,328.6494 | 0.6178 | 0.0000 | 19,344.0954 |

3.5 Building Construction - 2028

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 | 0.1614 | 1.4714 | 1.8980 | 3.1800e-003 | | 0.0623 | 0.0623 | | 0.0586 | 0.0586 | 0.0000 | 273.6650 | 273.6650 | 0.0643 | 0.0000 | 275.2732 |
| Total | 0.1614 | 1.4714 | 1.8980 | 3.1800e-003 | | 0.0623 | 0.0623 | | 0.0586 | 0.0586 | 0.0000 | 273.6650 | 273.6650 | 0.0643 | 0.0000 | 275.2732 |

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3.5 Building Construction - 2028

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 | 0.5248 | 19.5068 | 5.3367 | 0.0691 | 1.8498 | 0.0212 | 1.8710 | 0.5337 | 0.0203 | 0.5540 | 0.0000 | 6,727.0456 | 6,727.0456 | 0.3493 | 0.0000 | 6,735.7775 |
| Worker | 4.0113 | 2.2950 | 29.5633 | 0.1150 | 15.2959 | 0.0890 | 15.3848 | 4.0622 | 0.0818 | 4.1441 | 0.0000 | 10,405.9594 | 10,405.9594 | 0.1880 | 0.0000 | 10,410.6585 |
| Total | 4.5361 | 21.8018 | 34.9000 | 0.1841 | 17.1457 | 0.1102 | 17.2559 | 4.5960 | 0.1021 | 4.6981 | 0.0000 | 17,133.0049 | 17,133.0049 | 0.5373 | 0.0000 | 17,146.4360 |

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 | 0.0387 | 0.2637 | 2.0603 | 3.1800e-003 | | 4.8100e-003 | 4.8100e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 273.6646 | 273.6646 | 0.0643 | 0.0000 | 275.2729 |
| Total | 0.0387 | 0.2637 | 2.0603 | 3.1800e-003 | | 4.8100e-003 | 4.8100e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 273.6646 | 273.6646 | 0.0643 | 0.0000 | 275.2729 |

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3.5 Building Construction - 2028

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 | 0.5248 | 19.5068 | 5.3367 | 0.0691 | 1.8498 | 0.0212 | 1.8710 | 0.5337 | 0.0203 | 0.5540 | 0.0000 | 6,727.0456 | 6,727.0456 | 0.3493 | 0.0000 | 6,735.7775 |
| Worker | 4.0113 | 2.2950 | 29.5633 | 0.1150 | 15.2959 | 0.0890 | 15.3848 | 4.0622 | 0.0818 | 4.1441 | 0.0000 | 10,405.9594 | 10,405.9594 | 0.1880 | 0.0000 | 10,410.6585 |
| Total | 4.5361 | 21.8018 | 34.9000 | 0.1841 | 17.1457 | 0.1102 | 17.2559 | 4.5960 | 0.1021 | 4.6981 | 0.0000 | 17,133.0049 | 17,133.0049 | 0.5373 | 0.0000 | 17,146.4360 |

3.6 Paving - 2028

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 | 0.0114 | 0.1073 | 0.1822 | 2.8000e-004 | | 5.2300e-003 | 5.2300e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 25.0241 | 25.0241 | 8.0900e-003 | 0.0000 | 25.2264 |
| Paving | 0.0497 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0611 | 0.1073 | 0.1822 | 2.8000e-004 | | 5.2300e-003 | 5.2300e-003 | | 4.8100e-003 | 4.8100e-003 | 0.0000 | 25.0241 | 25.0241 | 8.0900e-003 | 0.0000 | 25.2264 |

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3.6 Paving - 2028

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |
| Total | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |

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 | 3.5100e-003 | 0.0152 | 0.2162 | 2.8000e-004 | | 4.7000e-004 | 4.7000e-004 | | 4.7000e-004 | 4.7000e-004 | 0.0000 | 25.0240 | 25.0240 | 8.0900e-003 | 0.0000 | 25.2264 |
| Paving | 0.0497 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0532 | 0.0152 | 0.2162 | 2.8000e-004 | | 4.7000e-004 | 4.7000e-004 | | 4.7000e-004 | 4.7000e-004 | 0.0000 | 25.0240 | 25.0240 | 8.0900e-003 | 0.0000 | 25.2264 |

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3.6 Paving - 2028

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |
| Total | 5.4000e-004 | 3.1000e-004 | 3.9800e-003 | 2.0000e-005 | 2.0600e-003 | 1.0000e-005 | 2.0700e-003 | 5.5000e-004 | 1.0000e-005 | 5.6000e-004 | 0.0000 | 1.3995 | 1.3995 | 3.0000e-005 | 0.0000 | 1.4001 |

3.6 Paving - 2029

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 | 0.0348 | 0.3261 | 0.5540 | 8.7000e-004 | | 0.0159 | 0.0159 | | 0.0146 | 0.0146 | 0.0000 | 76.0732 | 76.0732 | 0.0246 | 0.0000 | 76.6883 |
| Paving | 0.1509 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.1857 | 0.3261 | 0.5540 | 8.7000e-004 | | 0.0159 | 0.0159 | | 0.0146 | 0.0146 | 0.0000 | 76.0732 | 76.0732 | 0.0246 | 0.0000 | 76.6883 |

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3.6 Paving - 2029

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |
| Total | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |

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 | 0.0107 | 0.0462 | 0.6572 | 8.7000e-004 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 76.0731 | 76.0731 | 0.0246 | 0.0000 | 76.6882 |
| Paving | 0.1509 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.1616 | 0.0462 | 0.6572 | 8.7000e-004 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 76.0731 | 76.0731 | 0.0246 | 0.0000 | 76.6882 |

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3.6 Paving - 2029

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |
| Total | 1.5400e-003 | 8.6000e-004 | 0.0114 | 5.0000e-005 | 6.2500e-003 | 3.0000e-005 | 6.2900e-003 | 1.6600e-003 | 3.0000e-005 | 1.6900e-003 | 0.0000 | 4.1398 | 4.1398 | 7.0000e-005 | 0.0000 | 4.1415 |

3.7 Architectural Coating - 2029

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 | 31.3377 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.6300e-003 | 0.0579 | 0.0914 | 1.5000e-004 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |
| Total | 31.3463 | 0.0579 | 0.0914 | 1.5000e-004 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |

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3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |
| Total | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |

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 | 31.3377 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.5000e-003 | 6.5000e-003 | 0.0925 | 1.5000e-004 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |
| Total | 31.3392 | 6.5000e-003 | 0.0925 | 1.5000e-004 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 12.8939 | 12.8939 | 7.0000e-004 | 0.0000 | 12.9115 |

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3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |
| Total | 0.3232 | 0.1809 | 2.3759 | 9.5700e-003 | 1.3092 | 7.0700e-003 | 1.3163 | 0.3477 | 6.5100e-003 | 0.3542 | 0.0000 | 866.6771 | 866.6771 | 0.0148 | 0.0000 | 867.0461 |

4.0 Operational Detail - Mobile

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 | 14.1332 | 79.2656 | 216.0750 | 1.0846 | 113.4095 | 0.6459 | 114.0553 | 30.3784 | 0.6000 | 30.9784 | 0.0000 | 100,798.6586 | 100,798.6586 | 3.8391 | 0.0000 | 100,894.6356 |
| Unmitigated | 14.1332 | 79.2656 | 216.0750 | 1.0846 | 113.4095 | 0.6459 | 114.0553 | 30.3784 | 0.6000 | 30.9784 | 0.0000 | 100,798.6586 | 100,798.6586 | 3.8391 | 0.0000 | 100,894.6356 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|------------------|------------------|--------------------|--------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 41,307.00 | 48,978.30 | 35897.75 | 211,284,548 | 211,284,548 |
| Condo/Townhouse | 14,286.79 | 13,942.53 | 11901.56 | 70,530,430 | 70,530,430 |
| General Office Building | 4,605.80 | 1,027.22 | 438.45 | 16,744,204 | 16,744,204 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 60,199.59 | 63,948.05 | 48,237.76 | 298,559,182 | 298,559,182 |

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 High Rise | 21.84 | 8.76 | 12.92 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse | 21.84 | 8.76 | 12.92 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 24.66 | 12.48 | 10.25 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Parking Lot | 24.66 | 12.48 | 10.25 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

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| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments High Rise | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Condo/Townhouse | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| General Office Building | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |
| Parking Lot | 0.552035 | 0.041482 | 0.206421 | 0.111285 | 0.012766 | 0.005738 | 0.022315 | 0.037879 | 0.002185 | 0.001506 | 0.004914 | 0.000717 | 0.000757 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 18,792.9839 | 18,792.9839 | 0.7759 | 0.1605 | 18,860.2164 |
| NaturalGas Mitigated | 0.7543 | 6.4585 | 2.8366 | 0.0411 | | 0.5211 | 0.5211 | | 0.5211 | 0.5211 | 0.0000 | 7,464.8370 | 7,464.8370 | 0.1431 | 0.1369 | 7,509.1968 |
| NaturalGas Unmitigated | 0.7543 | 6.4585 | 2.8366 | 0.0411 | | 0.5211 | 0.5211 | | 0.5211 | 0.5211 | 0.0000 | 7,464.8370 | 7,464.8370 | 0.1431 | 0.1369 | 7,509.1968 |

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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 High Rise | 9.06486e+007 | 0.4888 | 4.1770 | 1.7774 | 0.0267 | | 0.3377 | 0.3377 | | 0.3377 | 0.3377 | 0.0000 | 4,837.3548 | 4,837.3548 | 0.0927 | 0.0887 | 4,866.1008 |
| Condo/Townhouse | 4.48903e+007 | 0.2421 | 2.0685 | 0.8802 | 0.0132 | | 0.1672 | 0.1672 | | 0.1672 | 0.1672 | 0.0000 | 2,395.5160 | 2,395.5160 | 0.0459 | 0.0439 | 2,409.7514 |
| General Office Building | 4.34688e+006 | 0.0234 | 0.2131 | 0.1790 | 1.2800e-003 | | 0.0162 | 0.0162 | | 0.0162 | 0.0162 | 0.0000 | 231.9662 | 231.9662 | 4.4500e-003 | 4.2500e-003 | 233.3447 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.7543 | 6.4585 | 2.8366 | 0.0411 | | 0.5211 | 0.5211 | | 0.5211 | 0.5211 | 0.0000 | 7,464.8370 | 7,464.8370 | 0.1431 | 0.1369 | 7,509.1968 |

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5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments High Rise | 9.06486e+007 | 0.4888 | 4.1770 | 1.7774 | 0.0267 | | 0.3377 | 0.3377 | | 0.3377 | 0.3377 | 0.0000 | 4,837.3548 | 4,837.3548 | 0.0927 | 0.0887 | 4,866.1008 |
| Condo/Townhouse | 4.48903e+007 | 0.2421 | 2.0685 | 0.8802 | 0.0132 | | 0.1672 | 0.1672 | | 0.1672 | 0.1672 | 0.0000 | 2,395.5160 | 2,395.5160 | 0.0459 | 0.0439 | 2,409.7514 |
| General Office Building | 4.34688e+006 | 0.0234 | 0.2131 | 0.1790 | 1.2800e-003 | | 0.0162 | 0.0162 | | 0.0162 | 0.0162 | 0.0000 | 231.9662 | 231.9662 | 4.4500e-003 | 4.2500e-003 | 233.3447 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.7543 | 6.4585 | 2.8366 | 0.0411 | | 0.5211 | 0.5211 | | 0.5211 | 0.5211 | 0.0000 | 7,464.8370 | 7,464.8370 | 0.1431 | 0.1369 | 7,509.1968 |

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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 High Rise | 3.89474e+007 | 12,409.4719 | 0.5123 | 0.1060 | 12,453.8671 |
| Condo/Townhouse | 1.22526e+007 | 3,903.9274 | 0.1612 | 0.0334 | 3,917.8938 |
| General Office Building | 5.42421e+006 | 1,728.2690 | 0.0714 | 0.0148 | 1,734.4519 |
| Parking Lot | 2.35802e+006 | 751.3157 | 0.0310 | 6.4200e-003 | 754.0036 |
| Total | | 18,792.9839 | 0.7759 | 0.1605 | 18,860.2164 |

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5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments High Rise | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Condo/Townhouse | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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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 | 41.2017 | 1.4547 | 126.0945 | 6.6500e-003 | | 0.7030 | 0.7030 | | 0.7030 | 0.7030 | 0.0000 | 206.1216 | 206.1216 | 0.1890 | 0.0000 | 210.8477 |
| Unmitigated | 41.6216 | 3.6265 | 127.5900 | 0.0205 | | 0.8791 | 0.8791 | | 0.8791 | 0.8791 | 0.0000 | 2,716.9606 | 2,716.9606 | 0.2465 | 0.0460 | 2,736.8334 |

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 | 3.1027 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 34.4630 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.2536 | 2.1668 | 0.9221 | 0.0138 | | 0.1752 | 0.1752 | | 0.1752 | 0.1752 | 0.0000 | 2,509.4331 | 2,509.4331 | 0.0481 | 0.0460 | 2,524.3454 |
| Landscaping | 3.8022 | 1.4597 | 126.6680 | 6.7100e-003 | | 0.7039 | 0.7039 | | 0.7039 | 0.7039 | 0.0000 | 207.5275 | 207.5275 | 0.1984 | 0.0000 | 212.4880 |
| Total | 41.6216 | 3.6265 | 127.5900 | 0.0205 | | 0.8791 | 0.8791 | | 0.8791 | 0.8791 | 0.0000 | 2,716.9606 | 2,716.9606 | 0.2465 | 0.0460 | 2,736.8334 |

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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 | 3.1027 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 34.4630 | | | | | 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 | 3.6360 | 1.4547 | 126.0945 | 6.6500e-003 | | 0.7030 | 0.7030 | | 0.7030 | 0.7030 | 0.0000 | 206.1216 | 206.1216 | 0.1890 | 0.0000 | 210.8477 |
| Total | 41.2017 | 1.4547 | 126.0945 | 6.6500e-003 | | 0.7030 | 0.7030 | | 0.7030 | 0.7030 | 0.0000 | 206.1216 | 206.1216 | 0.1890 | 0.0000 | 210.8477 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------------|---------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 4,101.298 3 | 22.9754 | 0.5719 | 4,846.094 9 |
| Unmitigated | 5,857.345 1 | 28.7494 | 0.7211 | 6,790.955 0 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|------------------------|----------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments High Rise | 640.79 / 403.976 | 4,291.811 4 | 21.0489 | 0.5280 | 4,975.363 4 |
| Condo/Townhouse | 160.214 / 101.004 | 1,073.061 9 | 5.2628 | 0.1320 | 1,243.967 3 |
| General Office Building | 74.2163 / 45.4874 | 492.4718 | 2.4377 | 0.0611 | 571.6243 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 5,857.345 1 | 28.7494 | 0.7211 | 6,790.955 0 |

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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 High Rise | 512.632 / 201.988 | 3,004.4404 | 16.8214 | 0.4187 | 3,549.7473 |
| Condo/Townhouse | 128.171 / 50.5022 | 751.1865 | 4.2058 | 0.1047 | 887.5271 |
| General Office Building | 59.373 / 22.7437 | 345.6714 | 1.9482 | 0.0485 | 408.8206 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 4,101.2983 | 22.9754 | 0.5718 | 4,846.0949 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|----------------|---------|--------|----------------|
| | MT/yr | | | |
| Mitigated | 1,226.792 1 | 72.5013 | 0.0000 | 3,039.325 6 |
| Unmitigated | 1,226.792 1 | 72.5013 | 0.0000 | 3,039.325 6 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|------------------------|----------------|---------------|------------------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 4524.1 | 918.3514 | 54.2730 | 0.0000 | 2,275.176 8 |
| Condo/Townhouse | 1131.14 | 229.6112 | 13.5696 | 0.0000 | 568.8520 |
| General Office Building | 388.34 | 78.8295 | 4.6587 | 0.0000 | 195.2968 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1,226.792 1 | 72.5013 | 0.0000 | 3,039.325 6 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use | tons | MT/yr | | | |
| Apartments High Rise | 4524.1 | 918.3514 | 54.2730 | 0.0000 | 2,275.1768 |
| Condo/Townhouse | 1131.14 | 229.6112 | 13.5696 | 0.0000 | 568.8520 |
| General Office Building | 388.34 | 78.8295 | 4.6587 | 0.0000 | 195.2968 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1,226.7921 | 72.5013 | 0.0000 | 3,039.3256 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation
