



# Appendix B

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## CalEEMod Emissions Summary



# CalEEMod Emission Summary

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**DATE: May 27, 2020**

**SUBJECT: Summary of CalEEMod Model Runs and Output for the Sand Canyon Resort Project**

## SECTION 1: PROJECT INFORMATION

### 1.1 - Project Name

Sand Canyon Resort Project

### 1.2 - Project Location

The proposed 77-acre project site collectively consists of the proposed resort site, which is approximately 75 acres in size and is located at 27734 Sand Canyon Road at the northeast corner of Sand Canyon Road and Robinson Ranch Roach, south of State Route 14 in the Sand Canyon area of the City of Santa Clarita (City) as well as a 1.9-acre detention basin site located south of the proposed resort site.

The project site is located within a Planned Development (PD) overlay zone and within the City's Sand Canyon Special Standards District. The site is currently designated as Open Space in the City of Santa Clarita General Plan and is currently zoned Open Space (OS). The project includes a Zone Change and General Plan Amendment to Community Commercial (CC) and a subdivision from one lot into four lots.

### 1.3 - Project Description

The proposed resort would include the following buildings: Main Hotel Building, Spa Garden Inn, Function Building, Spa Building, View Villas Community, and Oak Villas Community. The resort would include a total of 392 rooms within hotel buildings and villas, 56,200 square feet of conference space in the form of ballrooms and meeting rooms, 25,000 square feet of restaurant space, and outdoor recreation with parks, trails, and a nine-hole par-3 golf course. The resort would include a total of 400 new parking stalls and additional shared parking would be available at the adjacent clubhouse building and 2 miles of multi-purpose trails. This analysis assumes the Project would be operational by 2023.

### 1.4 - Purpose of the Report

This report summarizes the results of the project construction and operational criteria pollutant and greenhouse gas (GHG) emissions estimates using the California Emissions Estimator Model (CalEEMod Version 2016.3.2) land use emission model for use in preparing CEQA regulatory documentation. The estimated project emissions were compared to the recommended air quality and GHG significance thresholds adopted by the South Coast Air Quality Management District (SCAQMD) for use in CEQA assessments.

## 1.5 - Conclusions

- The construction and operation of the project would not exceed any project-level criteria pollutant regional or localized emission significance threshold adopted by the SCAQMD.
- The construction and operation of the project would not result in a cumulatively significant impact on the region's air quality.
- The construction and operation of the project would not exceed the greenhouse gas significance threshold adopted for this project and would have a less than significant individual and cumulative impact of GHG emissions.
- The construction and operation of the project would not result in the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, associated with project design, project location, the use of electricity and natural gas, and the use of fuel by vehicles anticipated to travel to and from the project.

## SECTION 2: CALEMOD EMISSION ESTIMATES – CRITERIA POLLUTANTS

This section quantifies the project construction and operational criteria pollutant emissions<sup>1</sup> for the project design.

### 2.1 - Significance Thresholds-Criteria Pollutants

The City of Santa Clarita has not adopted its own set of criteria pollutant significance thresholds. Therefore, the respective significance thresholds recommended by the SCAQMD were applied to the project in assessing the significance of the project's criteria pollutant emissions.

#### 2.1.1 Regional Emission Significance Thresholds

The incremental regional air quality impacts of an individual project are generally very small and difficult to measure. However, the SCAQMD's regional significance thresholds define levels of maximum daily emissions whose exceedance by a project's construction or operation may add to the overall emission burden within the SCAQMD and impact the attainment and maintenance of ambient air quality standards.

The regional thresholds apply to criteria pollutant emissions of carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), oxides of sulfur (SO<sub>x</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and reactive organic gases (ROG). The quantification of regional emissions includes those project emissions generated from both onsite emission sources (i.e., offroad construction equipment, fugitive dust) and offsite emission sources (vehicle travel to and away from the project). Table 1 shows the SCAQMD's regional significance thresholds.

**Table 1: SCAQMD Regional Emission Significance Thresholds**

| Air Pollutant               | Maximum Daily Emissions<br>(pounds/day) |           |
|-----------------------------|---|-----------|
|                             | Construction                            | Operation |
| Carbon Monoxide             | 550                                     | 550       |
| Oxides of Nitrogen          | 100                                     | 55        |
| Sulfur Oxides               | 150                                     | 150       |
| PM <sub>10</sub>            | 150                                     | 150       |
| PM <sub>2.5</sub>           | 55                                      | 55        |
| Reactive Organic Gases      | 75                                      | 55        |
| Source: SCAQMD <sup>2</sup> |   |           |

<sup>1</sup>Criteria pollutants are the only air pollutants with national air quality standards that define allowable concentrations of these substances in the ambient air. Criteria pollutants include carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), sulfur dioxide (SO<sub>x</sub>), and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>). Note that ozone is another criteria pollutant; however, in terms of defining significance thresholds, ozone is represented by its precursor components, oxides of nitrogen (NO<sub>x</sub>) and reactive organic gases.

<sup>2</sup> SCAQMD April 2019. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>

## 2.1.2 Localized Significance Thresholds

Project-related construction or operational air emissions may have the potential to exceed the State and national air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact on the SCAQMD. As a result, the SCAQMD has also adopted localized significance thresholds (LSTs) that represent the maximum rates of daily construction or operational emissions from a project site that would not result in air pollutant levels that would exceed a national or State ambient air quality standards (SCAQMD 2003<sup>3</sup>,2008<sup>4</sup>). There are three principal differences between the regional thresholds and the LSTs. First, the regional thresholds include all sources of project construction and operational emissions generated from both onsite and offsite emission sources, whereas the LSTs only consider the emissions generated from onsite emission sources. Second, the LSTs only apply to CO, NO<sub>x</sub>, and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), while the regional thresholds include both ROG and SO<sub>x</sub>. Third, the regional thresholds apply to emission sources regardless of where the source is located within the SCAQMD. In contrast, the LSTs are location-dependent and also depend on the size of the project and emission location relative to the nearest sensitive receptor<sup>5</sup>.

For purposes of this localized assessment, the SCAQMD provides screening emission look-up tables for projects that disturb a maximum of 5 acres in size in a day. The look-up tables were developed by the SCAQMD to readily determine if the daily emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> from a project could result in a significant impact on the local air quality. The appropriate LSTs can be determined based on the project's source receptor area (SRA)<sup>6</sup>, size, and distance to nearest sensitive receptor. The SCAQMD has divided the SCAQMD into 37 SRAs, each with a set of LSTs that depend on the air pollutant, project size, and distance to the nearest sensitive receptor. The project site is located within SRA 13, Santa Clarita Valley. The LSTs for this SRA were applied to the project.

### LSTs for Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (SCAQMD 2011)<sup>7</sup>. The CalEEMod model calculates construction emissions based on the number and types of construction equipment, equipment hours, rates of emission, and the maximum area that a piece of equipment can pass-over in an 8-hour workday. The daily maximum disturbed area during construction serves as a factor in determining the project size value of the LSTs for construction. Table 2 shows the maximum daily disturbed acreage during site preparation, and grading based on the types and numbers of construction equipment used for each construction activity, as identified by the CalEEMod model. As shown in Table 2, the maximum daily area disturbed during construction is 4.0 acres that occurs during the grading activity. Therefore, the maximum daily disturbed area during construction was set as 4.0 acres for the localized assessment of construction impacts.

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<sup>3</sup> SCAQMD 2003. Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2>

<sup>4</sup> SCAQMD 2008: Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>

<sup>5</sup> The SCAQMD defines a sensitive receptor as an individual who is most health-wise susceptible to exposures to air pollutants including children the elderly, and adults with chronic health issues. Such receptors include residences, schools, elderly care centers, and hospitals where such receptors could be exposed to air pollutants for at least 24 hours.

<sup>6</sup> A source-receptor area (SRA) is a geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts

<sup>7</sup> SCAQMD 2011: Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf>

**Table 2: Equipment Specific Maximum Daily Disturbed Construction Area Rates**

| Activity   | Equipment Type           | Equipment Quantity | Acres Graded per 8-hour Day | Operating Hours per Day | Acres Graded per Day |
|--|--------------------------|--------------------|-----------------------------|-------------------------|----------------------|
| Demolition   | Excavators               | 3                  | 0                           | 8                       | 0                    |
|  | Rubber Tired Dozers      | 2                  | 0.5                         | 8                       | 1                    |
|  | Concrete Industrial Saws | 1                  | 0                           | 8                       | 0                    |
|  | Total 1.0 acres          |                    |                             |                         |                      |
| Site Preparation   | Rubber Tired Dozer       | 3                  | 0.5                         | 8                       | 1.5                  |
|  | Crawler Tractor          | 4                  | 0.5                         | 8                       | 2.0                  |
|  | Total 3.5 acres          |                    |                             |                         |                      |
| Grading  | Excavators               | 2                  | 0                           | 8                       | 0                    |
|  | Graders                  | 1                  | 0.5                         | 8                       | 0.5                  |
|  | Rubber Tired Dozers      | 1                  | 0.5                         | 8                       | 0.5                  |
|  | Crawler Tractor          | 2                  | 0.5                         | 8                       | 1                    |
|  | Scraper                  | 2                  | 1                           | 8                       | 2                    |
|  | Total 4.0 acres          |                    |                             |                         |                      |
| Source: Table 5 shows the construction inventory developed for the Site Preparation and Grading activities as derived from the CalEEMod model. |                          |                    |                             |                         |                      |

The specification of LSTs is also dependent on the distance to the nearest sensitive receptor. The location of the nearest sensitive receptor is dependent not only on the distance to the project but also the duration for which a receptor may be exposed to air pollution. The SCAQMD considers a sensitive receptor to be a location such as a residence, hospital, convalescent facility where it is possible than an individual could remain for 24 hours or longer<sup>8</sup>.

The closest offsite sensitive receptor where such a receptor could reside for 24 hours or longer is located at an existing residence at the western property line along San Canyon Road. Therefore, the distance for sensitive receptors in the LST assessment was set at 25 meters (the shortest distance listed in the emission tables) for estimating localized project impacts. Table 3 provides the applicable construction LSTs for this project.

<sup>8</sup> SCAQMD 2003. Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2>

**Table 3: Construction Localized Significance Thresholds**

| <b>NO<sub>x</sub><br/>(lbs/day)</b>  | <b>CO<br/>(lbs/day)</b> | <b>PM<sub>10</sub><br/>(lbs/day)</b> | <b>PM<sub>2.5</sub><br/>(lbs/day)</b> |
|--|-------------------------|--------------------------------------|---------------------------------------|
| 218  | 1,388                   | 10.0                                 | 5.3                                   |
| LSTs for SRA 13, project area of 4.0 acres and a receptor distance of 25 meters. The LSTs were interpolated from the 2 and 5 acre LSTs provided in the LST look-up tables. |                         |                                      |                                       |

### **LST for Operation**

Because the LST methodology is applicable to projects where emission sources occupy a fixed location, LST methodology would typically not apply to the operational phase of a commercial project because emissions for these projects are primarily generated by mobile sources traveling on local roadways over generally large distances or areas. LSTs would apply to the operational phase of a project if the project includes stationary sources or attracts mobile sources that may spend long periods queuing and idling at the site. For example, the LST methodology applies to operational projects such as warehouse/transfer facilities or large stationary sources such as a refinery, chemical factory, or railyard. As the project would include a resort with hotel and recreational uses, an operational analysis against the LST methodology is not appropriate and these impacts would be considered less than significant.

### **2.1.3 Cumulative Significance Thresholds**

The SCAQMD has published the following report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (SCAQMD 2003)<sup>9</sup>. Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. Therefore, the project-specific and cumulative significance thresholds are the same. As a result, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

The US Environmental Protection Agency currently designates the South Coast Air Basin where the project is located as nonattainment for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub>. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants is a result of past and present development within the air basin, and this regional impact is a cumulative impact. In other words, new development projects (such as the proposed project) within the air basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size, by itself, to result in nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects.

The determination of cumulative air quality impacts for construction and operational emissions was, therefore, based on whether the project would result in regional emissions that exceed SCAQMD regional thresholds of significance for construction and operations on a project level. Projects that generate emissions below the SCAQMD regional significance thresholds would be considered consistent with regional air quality planning efforts and would not generate cumulatively considerable emissions.

<sup>9</sup> SCAQMD 2003. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution



## 2.2 - Criteria Pollutant Emission and Impact Estimates

### 2.2.1 Project Emissions

#### Construction

##### Assumptions

- Construction Schedule: Construction is anticipated to commence in January 2021 and last for approximately 18 months. The project occupancy is expected in 2023
- The project site is currently open space, with numerous trees and grassland areas.
- Demolition of 65,000 square-feet of concrete paths and existing 1,200 square-foot restroom
- Soil import (10,000 cubic yards in the event of spoilage) with associated haul truck trips
- Fugitive dust mitigation applied as per SCAQMD Rule 403 – Fugitive Dust
- Application of architectural coatings with volatile organic compound content of 50 grams/liter
- Construction equipment inventory derived from the CalEEMod model equipment

##### Construction Emissions

The project's conceptual construction schedule and equipment inventory are provided in Table 4 and Table 5, respectively, based on the equipment provided in the CalEEMod model for the project size and land uses. Table 7 presents the project's construction vehicle trips.

**Table 4: Construction Schedule**

| Activity              | Start Date | End Date  | Total Days |
|-----------------------|------------|-----------|------------|
| Demolition            | 1/4/2021   | 1/15/2021 | 10         |
| Site Preparation      | 1/16/2021  | 2/19/2021 | 25         |
| Grading               | 2/20/2021  | 4/30/2021 | 50         |
| Building Construction | 5/1/2021   | 6/24/2022 | 300        |
| Paving                | 6/25/2022  | 8/5/2022  | 30         |
| Architectural Coating | 8/6/2022   | 9/30/2022 | 40         |

Source: see CalEEMod output

**Table 5: Construction Equipment Inventory**

| Activity              | Equipment                 | Project Number | Project Hours per day | Default Horse-power | Default Load Factor |
|-----------------------|---------------------------|----------------|-----------------------|---------------------|---------------------|
| Demolition            | Concrete/Industrial Saws  | 1              | 8                     | 81                  | 0.73                |
|                       | Excavators                | 3              | 8                     | 158                 | 0.38                |
|                       | Rubber Tired Dozers       | 2              | 8                     | 247                 | 0.40                |
| Site Preparation      | Rubber Tired Dozer        | 3              | 8                     | 247                 | 0.40                |
|                       | Crawler Tractor           | 4              | 8                     | 212                 | 0.43                |
| Grading               | Excavators                | 2              | 8                     | 158                 | 0.38                |
|                       | Graders                   | 1              | 8                     | 187                 | 0.41                |
|                       | Rubber Tired Dozers       | 1              | 8                     | 247                 | 0.40                |
|                       | Crawler Tractor           | 2              | 8                     | 212                 | 0.43                |
|                       | Scrapers                  | 2              | 8                     | 367                 | 0.48                |
| Building Construction | Crane                     | 1              | 7                     | 231                 | 0.29                |
|                       | Forklifts                 | 3              | 8                     | 89                  | 0.20                |
|                       | Tractors/Loaders/Backhoes | 3              | 7                     | 97                  | 0.37                |
|                       | Welders                   | 1              | 8                     | 46                  | 0.45                |
|                       | Generator Set             | 1              | 8                     | 84                  | 0.74                |
| Paving                | Pavers                    | 2              | 8                     | 130                 | 0.42                |
|                       | Paving Equipment          | 2              | 8                     | 132                 | 0.36                |
|                       | Rollers                   | 2              | 8                     | 80                  | 0.38                |
| Architectural Coating | Air Compressor            | 1              | 6                     | 78                  | 0.48                |

Source: see CalEEMod output

**Table 6: Construction Vehicle Trips**

| Activity              | Construction Trips per Day |        | Total Trips |
|-----------------------|----------------------------|--------|-------------|
|                       | Worker                     | Vendor | Haul        |
| Demolition            | 15                         | 0      | 168         |
| Site Preparation      | 18                         | 0      | 0           |
| Grading               | 20                         | 0      | 1,250       |
| Building Construction | 830                        | 324    | 0           |
| Paving                | 15                         | 0      | 0           |
| Architectural Coating | 166                        | 0      | 0           |

Source: see CalEEMod output

Table 7 presents the project’s estimated maximum daily regional construction emissions. As noted in Table 7, the construction of the project would not exceed the SCAQMD’s regional emission significance thresholds. Table 8 presents the results of the project’s localized construction impact assessment. As noted in Table 8, the construction of the project would not exceed the SCAQMD’s localized construction emission significance thresholds.

**Table 7: Estimated Maximum Daily Regional Construction Emissions**

| Construction Activity   | Maximum Daily Regional Construction Emissions <sup>(1)</sup><br>(pounds/day) |                 |             |                 |                  |                   |
|---|--|-----------------|-------------|-----------------|------------------|-------------------|
|   | ROG  | NO <sub>x</sub> | CO          | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| <b>2021</b>   |  |                 |             |                 |                  |                   |
| Demolition  | 3.4  | 36.0            | 23.3        | 0.0             | 3.0              | 1.6               |
| Site Preparation  | 5.4  | 60.9            | 22.6        | 0.1             | 7.5              | 5.1               |
| Grading   | 5.2  | 63.4            | 33.6        | 0.1             | 5.6              | 3.3               |
| Building Construction   | 6.4  | 51.3            | 58.3        | 0.2             | 12.5             | 4.1               |
| Maximum Daily Emission  | 6.4  | 63.4            | 58.3        | 0.2             | 12.5             | 5.1               |
| <b>2022</b>   |  |                 |             |                 |                  |                   |
| Building Construction   | 6.0  | 47.7            | 55.0        | 0.2             | 12.3             | 4.0               |
| Paving  | 1.8  | 11.1            | 15.2        | 0.0             | 0.8              | 0.5               |
| Architectural Coating   | 42.9   | 1.8             | 8.0         | 0.0             | 2.0              | 0.6               |
| Maximum Daily Emission  | 42.9   | 47.7            | 55.0        | 0.2             | 12.3             | 4.0               |
| <b>2021 to 2022<br/>Maximum Daily<br/>Emissions</b>   | <b>42.9</b>  | <b>63.4</b>     | <b>58.3</b> | <b>0.2</b>      | <b>12.5</b>      | <b>5.1</b>        |
| <b>SCAQMD Significance<br/>Thresholds</b>   | <b>75</b>  | <b>100</b>      | <b>550</b>  | <b>150</b>      | <b>150</b>       | <b>55</b>         |
| <b>Emissions Exceed<br/>Thresholds?</b>   | <b>No</b>  | <b>No</b>       | <b>No</b>   | <b>No</b>       | <b>No</b>        | <b>No</b>         |
| Notes:<br>ROG = reactive organic gases    NO <sub>x</sub> = oxides of nitrogen    PM <sub>10</sub> = particulate matter 10 microns or less in diameter<br>PM <sub>2.5</sub> = particulate matter 2.5 microns or less in diameter    CO = carbon monoxide    SO <sub>x</sub> = sulfur oxides<br>PM emissions reflect SCAQMD Rule 403 reductions<br>Emissions shown as 0.0 pounds/day are actually <0.1 pounds/day<br>Source: see CalEEMod model output |  |                 |             |                 |                  |                   |

**Table 8: Estimated Maximum Daily Localized Construction Emissions**

| Construction Activity   | Maximum Daily Localized Construction Emissions<br>(pounds/day) |              |                  |                   |
|---|--|--------------|------------------|-------------------|
|   | NO <sub>x</sub>  | CO           | PM <sub>10</sub> | PM <sub>2.5</sub> |
| <b>2021</b>   |  |              |                  |                   |
| Demolition  | 31.4   | 21.6         | 2.5              | 1.5               |
| Site Preparation  | 60.8   | 21.9         | 7.3              | 5.0               |
| Grading   | 56.6   | 31.2         | 4.9              | 3.1               |
| Building Construction   | 17.4   | 16.6         | 1.0              | 0.9               |
| Maximum Daily Emission  | 60.8   | 31.2         | 7.3              | 5.0               |
| <b>2022</b>   |  |              |                  |                   |
| Building Construction   | 15.6   | 16.4         | 0.8              | 0.8               |
| Paving  | 11.1   | 14.6         | 0.6              | 0.5               |
| Architectural Coating   | 1.4  | 1.8          | 0.1              | 0.1               |
| Maximum Daily Emission  | 15.6   | 16.4         | 0.8              | 0.8               |
| <b>2021 to 2022<br/>Maximum Daily Emissions</b>   | <b>60.8</b>  | <b>31.2</b>  | <b>7.3</b>       | <b>5.0</b>        |
| <b>SCAQMD Significance Thresholds</b>   | <b>218</b>   | <b>1,388</b> | <b>10.0</b>      | <b>5.3</b>        |
| <b>Emissions Exceed Thresholds?</b>   | <b>No</b>  | <b>No</b>    | <b>No</b>        | <b>No</b>         |
| Notes:<br>NO <sub>x</sub> = oxides of nitrogen    PM <sub>10</sub> = particulate matter 10 microns or less in diameter<br>PM <sub>2.5</sub> = particulate matter 2.5 microns or less in diameter    CO = carbon monoxide<br>PM emissions reflect SCAQMD Rule 403 emission reductions<br>Source: see CalEEMod model output |  |              |                  |                   |

## Project Operational Emissions

### Assumptions

- Project daily trip generation obtained from the traffic impact memorandum
- Vehicle fleet mix, trip lengths, and trip purposes derived from the default CalEEMod model input
- 75% solid waste diversion in accordance with California AB341
- 20% water reduction in outdoor/indoor water usage
- Architectural coatings with a VOC content of 50 grams/liter in accordance with SCAQMD Rule 1113

The project's day-to-day operations would generate the project's long-term emissions. Operational emissions for land use development projects are typically distinguished as mobile, area, and energy-source emissions. Mobile-source emissions are associated with worker automobiles, resort guests, and delivery trucks that would travel to and from the project site. Area-source emissions are associated with landscape maintenance activities, consumer product usage, and application of periodic architectural coatings. Energy-

source emissions are associated with natural gas consumption and, indirectly, with the generation of electricity from offsite power plants to service the electrical needs of the project.

Mobile sources constitute the largest source of operational emissions. The estimation of motor vehicle emissions requires an estimate of the number of vehicle trips, trip distance, and trip purpose that each vehicle travels. Table 9 summarizes the daily motor vehicle trips from the project based on information derived from the project Traffic Impact Analysis<sup>10</sup>. The project is expected to generate 921 daily weekday trips, and 1,317 daily trips on Saturday and Sunday.

**Table 9: Project Daily Operational Vehicle Assumptions**

| <b>Resort Hotel</b>  |  |
|--|--|
| <b>Rooms</b>   | <b>Trip Rate</b>   |
| 392  | 2.35 trips/room (weekday) <sup>(1)</sup><br>3.36 trips/room (weekday) <sup>(2)</sup> |
| <b>Fleet Mix</b>   |  |
| Default CalEEMod Fleet Mix   |  |
| <b>Vehicle Fleet Trip Length</b>   |  |
| Default CalEEMod Fleet Trip Length   |  |
| <b>Trip Purposes</b>   |  |
| Default CalEEMod Fleet Trip Purpose  |  |
| Notes:<br><sup>(1)</sup> Stantec 2019 San Canyon Traffic Impact Analysis<br><sup>(2)</sup> ITE 10 <sup>th</sup> Edition for Land Use Category 330<br>Source: see CalEEMod output |  |

Table 10 summarizes the project’s regional operational emissions along with a comparison to the SCAQMD’s regional significance thresholds. As noted in Table 10, the project’s regional operational emissions are less than the regional significance thresholds.

**Table 10: Estimated Maximum Daily Regional Operational Emissions**

| <b>Operational Activity</b> | <b>Maximum Daily Regional Operational Emissions (pounds/day)</b> |                       |           |                        |                         |
|-----------------------------|--|-----------------------|-----------|------------------------|-------------------------|
|                             | <b>ROG</b>   | <b>NO<sub>x</sub></b> | <b>CO</b> | <b>PM<sub>10</sub></b> | <b>PM<sub>2.5</sub></b> |
| Area                        | 7.7  | 0.0                   | 0.1       | 0.0                    | 0.0                     |
| Energy                      | 0.3  | 2.3                   | 1.9       | 0.2                    | 0.2                     |
| Mobile                      | 1.9  | 7.5                   | 22.2      | 6.7                    | 1.8                     |

<sup>10</sup> Stantec 2019. Sand Canyon Resort Traffic Impact Analysis

| Operational Activity  | Maximum Daily Regional Operational Emissions<br>(pounds/day) |                 |            |                  |                   |
|---|--|-----------------|------------|------------------|-------------------|
|   | ROG  | NO <sub>x</sub> | CO         | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Total Project Operational Emissions   | 9.8  | 9.8             | 24.2       | 6.9              | 2.0               |
| <b>SCAQMD Significance Threshold</b>  | <b>55</b>  | <b>55</b>       | <b>550</b> | <b>150</b>       | <b>55</b>         |
| <b>Exceed Threshold?</b>  | <b>No</b>  | <b>No</b>       | <b>No</b>  | <b>No</b>        | <b>No</b>         |
| Notes:<br>NO <sub>x</sub> = oxides of nitrogen    PM <sub>10</sub> = particulate matter 10 microns or less in diameter    ROG = reactive organic gases<br>PM <sub>2.5</sub> = particulate matter 2.5 microns or less in diameter    CO = carbon monoxide<br>Emissions shown as 0.0 pounds/day are actually <0.1 pounds/day<br>Source: see CalEEMod model output |  |                 |            |                  |                   |

## 2.2.2 Cumulative Impacts

### Construction

As shown in Table 7 above, the project’s maximum daily regional construction emissions would not exceed SCAQMD’s regional thresholds of significance. Therefore, the project’s construction emissions would not result in a cumulatively considerable incremental contribution to the existing air quality. Furthermore, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 403 to minimize fugitive PM dust emissions. Therefore, the cumulative impact of the construction of the project would be less than significant.

### Operations

As shown in Table 10 above, the project’s maximum daily operational emissions would not exceed SCAQMD’s regional thresholds of significance. Therefore, the project’s operational emissions would not result in a cumulatively considerable incremental contribution to the existing air quality. The cumulative impact from the long-term operation of the project would be less than significant.

## 2.3 - Conclusion

The project’s construction and operational emissions would not exceed the SCAQMD’s established project level or cumulative regional or localized pollutant significant thresholds during either construction or operation.

## SECTION 3: CALEEMOD EMISSION ESTIMATES - GREENHOUSE GAS EMISSIONS

This section analyzes the potential impacts on climate change from the project's emissions of various greenhouses (GHG).

### 3.1 - Significance Threshold

On December 5, 2008, the SCAQMD Governing Board adopted its staff proposal for an interim CEQA GHG significance threshold for proposed Projects where the SCAQMD is the lead agency. Currently, the Board has only adopted thresholds relevant to industrial (stationary source) projects. To achieve a policy objective of capturing 90 percent of GHG emissions from new residential/commercial development projects and implement a "fair share" approach to reducing emission increases from each sector, SCAQMD staff proposed in September 2010 combining performance standards and screening thresholds.

The most recent proposal issued in September 2010 uses the following tiered approach to evaluate potential GHG impacts from various uses:

- Tier 1: Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.
- Tier 2: Consider whether or not a proposed project is consistent with a locally adopted GHG reduction plan (i.e., a Climate Action Plan) that has gone through public hearings and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.
- Tier 3: Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MTCO<sub>2</sub>e/year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MTCO<sub>2</sub>e/year), commercial projects (1,400 MTCO<sub>2</sub>e/year), and mixed-use projects (3,000 MTCO<sub>2</sub>e/year). Under option 2 a single numerical screening threshold of 3,000 MTCO<sub>2</sub>e/year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.
- Tier 4: Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MTCO<sub>2</sub>e per service population for project level analyses and 6.6 MTCO<sub>2</sub>e per service population for plan level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.
- Tier 5: Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

This assessment of the project's GHG impacts relied upon the application of Tier 3 and a numerical threshold of 3,000 MTCO<sub>2</sub>e per year. Project GHG emissions in excess of 3,000 MTCO<sub>2</sub>e would result in a significant cumulative impact.

## 3.2 - Estimation of GHG Emissions

### 3.2.1 Construction

Table 11 summarizes the project's construction GHG emissions. As per SCAQMD guidance, the project's construction emissions are amortized over a 30-year time period and added to the operational emissions to quantify the project's total GHG emissions.

**Table 11: Project Construction GHG Emissions**

| Activity                                | Annual GHG Emissions (MTCO <sub>2e</sub> ) |
|---|--|
| 2021                                    | 1,923                                      |
| 2022                                    | 1,206                                      |
| Total Emissions                         | 3,129                                      |
| Total Emissions Amortized Over 30 years | 104  |
| Source: see CalEEMod output             |  |

### 3.2.2 Operations

Table 12 summarizes the project's operational GHG emissions, along with the construction GHG emissions and the total project GHG emissions. The project would result in GHG emissions of 2,504 MTCO<sub>2e</sub> per year. This level of emissions does not exceed the 3,000 MTCO<sub>2e</sub> per year significance threshold adopted for this project. Therefore, the project would have a less than significant individual and cumulative impact for GHG emission

**Table 12: Project Operational GHG Emissions**

| Activity                           | Annual GHG Emissions (MTCO <sub>2e</sub> ) |
|------------------------------------|--|
| Project Operational Emissions Area | 0  |
| Energy                             | 1,113                                      |
| Mobile                             | 1,038                                      |
| Waste                              | 109  |
| Water                              | 140  |
| Total                              | 2,399                                      |
| Project Construction Emissions     | 104  |
| Project Construction and Operation | 2,504                                      |
| <b>Significance Threshold</b>      | <b>3,000</b>                               |
| <b>Project Exceeds Threshold?</b>  | <b>NO</b>                                  |
| Source: see CalEEMod output        |  |



### 3.3 - Conclusion

The project's construction and operational GHG emissions would have a less than significant individual and cumulative impacts for GHG emissions.

## SECTION 4: PROJECT FUEL AND ENERGY CONSUMPTION

### 4.1 - Assumptions

- Construction equipment fuel consumption derived from ARB Offroad2017 emission model and the CalEEMod construction equipment
- Fuel Consumption from vehicle travel derived from ARB EMFAC2017 emission model
- Electrical and natural gas usage derived from the CalEEMod model

### 4.2 - Significance Thresholds

Neither Appendix F of the State CEQA Guidelines nor PRC Section 21100(b)(3)) provides a numerical threshold of significance that might be used to evaluate the potential significance of energy consumption of a proposed project. Instead, the emphasis is on reducing “the wasteful, inefficient, and unnecessary consumption of energy.” Based on this focus of the guidelines, for purposes of this report, the proposed project would have a significant impact related to energy consumption if it would:

- Involve the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, associated with project design, project location, the use of electricity and natural gas, and the use of fuel by vehicles anticipated to travel to and from the project.

### 4.3 - Construction

#### 4.3.1 Electricity and Natural Gas Usage

Southern California Edison Company would provide temporary electric power for as-necessary lighting and electronic equipment such as computers inside temporary construction trailers. The electricity used for such activities would be temporary and would be substantially less than that required for project operation and would have a negligible contribution to the project’s overall energy consumption.

Natural gas is not anticipated to be required during the construction of the proposed project. Fuels used during the construction would primarily consist of diesel and gasoline, which are discussed below under the “Petroleum Fuel Usage” subsection. Any minor amounts of natural gas that may be consumed as a result of project construction would be substantially less than that required for project operation and would have a negligible contribution to the project’s overall energy consumption.

#### 4.3.2 Petroleum Fuel Usage

Off-road heavy-duty construction equipment associated with construction activities would rely on diesel fuel as would vendor and haul trucks involved in delivering building materials and removing the demolition debris from the project site. Construction workers would travel to and from the project site throughout the duration of construction. It is assumed in this analysis that construction workers would travel to and from the site in gasoline-powered passenger vehicles. Table 17 presents the fuel usage for the off-road construction equipment. These estimates are based on the total fuel consumption and horsepower-hour

data contained within the ARB OFFROAD2017 emission model for specific types of diesel construction equipment to be employed in the project construction. Note that the total fuel consumption during construction computed below likely substantially overstates the amount of fuel usage. Although construction equipment and their duration are listed under a particular construction activity, there is a likelihood that all of the inventoried equipment would not operate over the entire duration of the construction activity. For example, during building construction, a crane is listed as one of the items of construction equipment. However, it is highly unlikely that the crane would operate over the entire duration of 300 days assumed during the building construction activity.

Table 18 summarizes the project's construction vehicle fuel usage. The fuel usage is based on the vehicle type (worker vehicle, vendor vehicle, and haul truck), vehicle miles traveled, and fuel usage factors contained in the ARB EMFAC2017 mobile source emission model and in the CalEEMod model. Table 19 summarizes the total fuel construction during construction.

#### 4.4 - Operational Energy Requirements

Table 20 summarizes the project's operational energy requirements.

#### 4.5 - Conclusion

Construction of the project would result in fuel consumption from the use of construction tools and equipment, vendor and haul truck trips, and vehicle trips generated from construction workers traveling to and from the site. Construction activities and corresponding fuel energy consumption would be temporary and localized, as the use of diesel fuel and heavy-duty equipment would not be a typical operational condition of the project. Also, there are no unusual project characteristics that would cause the use of construction equipment that would be less energy efficient compared with other similar construction sites in other parts of the State. The rational goal of any construction job, whether it be for a household task or construction project such as the proposed project, is to minimize construction costs while meeting all legal requirements for doing so. Therefore, construction-related fuel consumption by the project would not result in inefficient, wasteful, or unnecessary energy use compared with other construction sites in the region.

The operation of the project would involve the development of a resort hotel complex. According to CEQA Guidelines Appendix F, the goal of conserving energy implies the wise and efficient use of energy, including decreasing overall per capita energy consumption, reducing reliance on natural gas and oil, and increasing reliance on renewable energy sources. The project would comply with all of the energy efficiency requirements under all applicable State, county, and local business and energy code ordinances. As a result, the operation of the project would not result in inefficient, wasteful, or unnecessary energy use compared with other similar residential projects in the region.

**Table 13: Construction Equipment Fuel Usage**

| Activity   | Equipment                 | Project Number | Project Hours per day | Default Horsepower | Default Load Factor | Days of Construction | Total Horsepower-hours | Fuel Rate (gal/hp-hr) | Fuel Use (gallons) |
|--|---------------------------|----------------|-----------------------|--------------------|---------------------|----------------------|------------------------|-----------------------|--------------------|
| Demolition   | Concrete/Industrial Saw   | 1              | 8                     | 81                 | 0.73                | 10                   | 4,730                  | 0.023965              | 113                |
|  | Excavators                | 3              | 8                     | 158                | 0.38                | 10                   | 14,410                 | 0.019763              | 285                |
|  | Rubber Tired Dozers       | 2              | 8                     | 247                | 0.4                 | 10                   | 15,808                 | 0.020461              | 323                |
| Site Preparation   | Rubber Tired Dozer        | 3              | 8                     | 247                | 0.4                 | 25                   | 59,280                 | 0.020461              | 1,213              |
|  | Crawler Tractor           | 4              | 8                     | 212                | 0.43                | 25                   | 72,928                 | 0.022173              | 1,617              |
| Grading  | Excavators                | 2              | 8                     | 158                | 0.38                | 50                   | 48,032                 | 0.019763              | 949                |
|  | Graders                   | 1              | 8                     | 187                | 0.41                | 50                   | 30,668                 | 0.021143              | 648                |
|  | Rubber Tired Dozers       | 1              | 8                     | 247                | 0.4                 | 50                   | 39,520                 | 0.020461              | 809                |
|  | Scrapers                  | 2              | 8                     | 367                | 0.48                | 50                   | 140,928                | 0.024738              | 3,486              |
|  | Crawler Tractor           | 2              | 8                     | 212                | 0.43                | 50                   | 72,928                 | 0.022173              | 1,617              |
|  | Crane                     | 1              | 7                     | 231                | 0.29                | 300                  | 140,679                | 0.014896              | 2,096              |
| Building Construction  | Forklifts                 | 3              | 8                     | 89                 | 0.2                 | 300                  | 128,160                | 0.019105              | 2,449              |
|  | Tractors/Loaders/Backhoes | 3              | 7                     | 97                 | 0.37                | 300                  | 226,107                | 0.023965              | 5,419              |
|  | Welders                   | 1              | 8                     | 46                 | 0.45                | 300                  | 49,680                 | 0.023965              | 1,191              |
|  | Generator Set             | 1              | 8                     | 84                 | 0.74                | 300                  | 149,184                | 0.023965              | 3,575              |
|  | Pavers                    | 2              | 8                     | 130                | 0.42                | 30                   | 26,208                 | 0.021525              | 564                |
| Paving   | Paving Equipment          | 2              | 8                     | 132                | 0.36                | 30                   | 22,810                 | 0.018334              | 418                |
|  | Rollers                   | 2              | 8                     | 80                 | 0.38                | 30                   | 14,592                 | 0.019412              | 283                |
| Architectural Coating  | Air Compressor            | 1              | 6                     | 78                 | 0.48                | 40                   | 8,986                  | 0.023965              | 215                |
| Fuel Consumption rates derived from the ARB OFFROAD2017 - Orion Web Database |                           |                |                       |                    |                     |                      |                        | Total                 | 26,549             |

**Table 14: Estimated Project Construction Vehicle Fuel Usage**

| Construction Source                             | Gallons of Diesel Fuel | Gallons of Gasoline Fuel |
|---|------------------------|--------------------------|
| Haul Trucks                                     | 4,428                  | 0                        |
| Vendor Trucks                                   | 80,904                 | 0                        |
| Worker Vehicles                                 | 0                      | 140,066                  |
| Construction Vehicles Total                     | 85,332                 | 140,066                  |
| Source: see Construction Fuel Usage Spreadsheet |                        |                          |

**Table 15: Total Construction Fuel Usage**

| Construction Source                             | Gallons of Diesel Fuel | Gallons of Gasoline Fuel |
|---|------------------------|--------------------------|
| Construction Vehicles                           | 85,332                 | 140,066                  |
| Off-road Construction Equipment                 | 26,549                 | 0                        |
| Construction Total                              | 111,881                | 140,066                  |
| Source: see Construction Fuel Usage Spreadsheet |                        |                          |

**Table 16: Project Annual Operational Energy Requirements**

| Operational Source<br>(value per year)                 |                                 |                   |
|--|---------------------------------|-------------------|
|  | VMT                             | Gallons of Fuel   |
| Transportation – Project                               | 170,420 (Diesel)                | 18,677 (Diesel)   |
|  | 2,297,644 (Gasoline)            | 93,036 (Gasoline) |
|  | 2,468,064 (Total)               | 111,713 (Total)   |
| Electricity – Project                                  | Thousands Kilowatt-Hours        |                   |
|  | 2,715,160                       |                   |
| Natural Gas – Project                                  | Thousands British Thermal Units |                   |
|  | 8,462,300                       |                   |
| Source: see Fuel Usage Spreadsheet and CalEEMod output |                                 |                   |

# CalEEMod Model Spreadsheet Output

|  | Page |
|--|------|
| Derivation of Localized Significance Thresholds    | 1    |
| Summary of CalEEMod Construction Emissions         | 2    |
| CalEEMod Model Output: Project – Summer            | 3    |
| CalEEMod Model Output: Project – Winter            | 35   |
| CalEEMod Model Output: Project – Annual            | 67   |
| Construction and Operational Fuel and Energy Usage | 106  |
| Estimates of Demolition Debris                     | 110  |
| Project Greenhouse Gas Emissions                   | 111  |

# Sand Canyon Resort Project

## Estimate of Construction LSTs

Size of Maximum Daily Construction Disturbed Area: 4 acres  
 Project Operational Size >5 acres

Source Receptor Area: 13

Distance to Sensitive Receptor: 25 meters

| Construction LST |               |              |                |                 |
|------------------|---------------|--------------|----------------|-----------------|
| Size (acres)     | NOx (lbs/day) | CO (lbs/day) | PM10 (lbs/day) | PM2.5 (lbs/day) |
| 2                | 163           | 877          | 6.0            | 4.0             |
| 5                | 246           | 1644         | 12.0           | 6.0             |
| 4                | 218           | 1388         | 10.0           | 5.3             |

| Estimation of Operational LSTs |               |              |                |                 |
|--------------------------------|---------------|--------------|----------------|-----------------|
| Size (acres)                   | NOx (lbs/day) | CO (lbs/day) | PM10 (lbs/day) | PM2.5 (lbs/day) |
| 5                              | 246           | 1644         | 12.0           | 2.0             |

| Maximum Daily Disturbed Area During Construction |                         |                     |                                 |                 |
|--|-------------------------|---------------------|---------------------------------|-----------------|
|  |                         | Number of Equipment | Acres Distrurbed per 8-hour day | Disturbed Acres |
| <b>Demolition</b>                                |                         |                     |                                 |                 |
|  | Excavators              | 3                   | 0                               | 0               |
|  | Rubber Tired Dozer      | 2                   | 0.5                             | 1               |
|  | Concrete Industrial Saw | 1                   | 0                               | 0               |
|  |                         |                     | <b>Total</b>                    | <b>1</b>        |
| <b>Site Preparation</b>                          |                         |                     |                                 |                 |
|  | Rubber Tired Dozers     | 3                   | 0.5                             | 1.5             |
|  | Crawler Tractors        | 4                   | 0.5                             | 2               |
|  |                         |                     | <b>Total</b>                    | <b>3.5</b>      |
| <b>Grading</b>                                   |                         |                     |                                 |                 |
|  | Excavators              | 2                   | 0                               | 0               |
|  | Graders                 | 1                   | 0.5                             | 0.5             |
|  | Rubber Tired Dozers     | 1                   | 0.5                             | 0.5             |
|  | Scrapers                | 2                   | 1                               | 2               |
|  | Crawler Tractors        | 2                   | 0.5                             | 1               |
|  |                         |                     | <b>Total</b>                    | <b>4</b>        |

**Sand Canyon Resort Project**

**CalEEMod Construction Emission Summary**

| 2021                         | Maximum Daily Emissions (pounds/day) |            |             |             |            |             |            |             |            |            |            |
|------------------------------|--------------------------------------|------------|-------------|-------------|------------|-------------|------------|-------------|------------|------------|------------|
|                              | ROG                                  | NOx        | CO          | SOx         | PM10F      | PM10Exh     | PM10Total  | PM2.5Fug    | PM2.5 Exh  | PM2.5Total |            |
| <b>Demolition</b>            |                                      |            |             |             |            |             |            |             |            |            |            |
| Onsite                       |                                      | 3.2        | 31.4        | 21.6        | 0.0        | 0.9         | 1.6        | 2.5         | 0.1        | 1.4        | 1.5        |
| Offsite                      |                                      | 0.2        | 4.6         | 1.7         | 0.0        | 0.5         | 0.0        | 0.5         | 0.1        | 0.0        | 0.1        |
| Total                        |                                      | 3.4        | 36.0        | 23.3        | 0.0        | 1.4         | 1.6        | 3.0         | 0.2        | 1.4        | 1.6        |
| <b>Site Prep</b>             |                                      |            |             |             |            |             |            |             |            |            |            |
| Onsite                       |                                      | 5.3        | 60.8        | 21.9        | 0.1        | 4.7         | 2.6        | 7.3         | 2.6        | 2.4        | 5.0        |
| Offsite                      |                                      | 0.1        | 0.1         | 0.7         | 0.0        | 0.2         | 0.0        | 0.2         | 0.1        | 0.0        | 0.1        |
| Total                        |                                      | 5.4        | 60.9        | 22.6        | 0.1        | 4.9         | 2.6        | 7.5         | 2.7        | 2.4        | 5.1        |
| <b>Grading</b>               |                                      |            |             |             |            |             |            |             |            |            |            |
| Onsite                       |                                      | 4.9        | 56.6        | 31.2        | 0.1        | 2.6         | 2.3        | 4.9         | 1.0        | 2.1        | 3.1        |
| Offsite                      |                                      | 0.3        | 6.8         | 2.4         | 0.0        | 0.7         | 0.0        | 0.7         | 0.2        | 0.0        | 0.2        |
| Total                        |                                      | 5.2        | 63.4        | 33.6        | 0.1        | 3.3         | 2.3        | 5.6         | 1.2        | 2.1        | 3.3        |
| <b>Building Construction</b> |                                      |            |             |             |            |             |            |             |            |            |            |
| Onsite                       |                                      | 1.9        | 17.4        | 16.6        | 0.0        | 0.0         | 1.0        | 1.0         | 0.0        | 0.9        | 0.9        |
| Offsite                      |                                      | 4.5        | 33.9        | 41.7        | 0.2        | 11.4        | 0.1        | 11.5        | 3.1        | 0.1        | 3.2        |
| Total                        |                                      | 6.4        | 51.3        | 58.3        | 0.2        | 11.4        | 1.1        | 12.5        | 3.1        | 1.0        | 4.1        |
| <b>2021 Max Onsite</b>       |                                      | <b>5.3</b> | <b>60.8</b> | <b>31.2</b> | <b>0.1</b> | <b>4.7</b>  | <b>2.6</b> | <b>7.3</b>  | <b>2.6</b> | <b>2.4</b> | <b>5.0</b> |
| <b>2021 Max Total</b>        |                                      | <b>6.4</b> | <b>63.4</b> | <b>58.3</b> | <b>0.2</b> | <b>11.4</b> | <b>2.6</b> | <b>12.5</b> | <b>3.1</b> | <b>2.4</b> | <b>5.1</b> |

|                              |  |             |             |             |            |             |            |             |            |            |            |
|------------------------------|--|-------------|-------------|-------------|------------|-------------|------------|-------------|------------|------------|------------|
| <b>2022</b>                  |  |             |             |             |            |             |            |             |            |            |            |
| <b>Building Construction</b> |  |             |             |             |            |             |            |             |            |            |            |
| Onsite                       |  | 1.7         | 15.6        | 16.4        | 0.0        | 0.0         | 0.8        | 0.8         | 0.0        | 0.8        | 0.8        |
| Offsite                      |  | 4.3         | 32.1        | 38.6        | 0.2        | 11.4        | 0.1        | 11.5        | 3.1        | 0.1        | 3.2        |
| Total                        |  | 6.0         | 47.7        | 55.0        | 0.2        | 11.4        | 0.9        | 12.3        | 3.1        | 0.9        | 4.0        |
| <b>Paving</b>                |  |             |             |             |            |             |            |             |            |            |            |
| Onsite                       |  | 1.7         | 11.1        | 14.6        | 0.0        | 0.0         | 0.6        | 0.6         | 0.0        | 0.5        | 0.5        |
| Offsite                      |  | 0.1         | 0.0         | 0.6         | 0.0        | 0.2         | 0.0        | 0.2         | 0.0        | 0.0        | 0.0        |
| Total                        |  | 1.8         | 11.1        | 15.2        | 0.0        | 0.2         | 0.6        | 0.8         | 0.0        | 0.5        | 0.5        |
| <b>Architectural Coating</b> |  |             |             |             |            |             |            |             |            |            |            |
| Onsite                       |  | 42.2        | 1.4         | 1.8         | 0.0        | 0.0         | 0.1        | 0.1         | 0.0        | 0.1        | 0.1        |
| Offsite                      |  | 0.7         | 0.4         | 6.2         | 0.0        | 1.9         | 0.0        | 1.9         | 0.5        | 0.0        | 0.5        |
| Total                        |  | 42.9        | 1.8         | 8.0         | 0.0        | 1.9         | 0.1        | 2.0         | 0.5        | 0.1        | 0.6        |
| <b>2022 Max Onsite</b>       |  | <b>42.2</b> | <b>15.6</b> | <b>16.4</b> | <b>0.0</b> | <b>0.0</b>  | <b>0.8</b> | <b>0.8</b>  | <b>0.0</b> | <b>0.8</b> | <b>0.8</b> |
| <b>2022 Max Total</b>        |  | <b>42.9</b> | <b>47.7</b> | <b>55.0</b> | <b>0.2</b> | <b>11.4</b> | <b>0.9</b> | <b>12.3</b> | <b>3.1</b> | <b>0.9</b> | <b>4.0</b> |
| <b>2021-2022 Max Onsite</b>  |  | <b>42.2</b> | <b>60.8</b> | <b>31.2</b> | <b>0.1</b> | <b>4.7</b>  | <b>2.6</b> | <b>7.3</b>  | <b>2.6</b> | <b>2.4</b> | <b>5.0</b> |
| <b>2021-2022 Max Total</b>   |  | <b>42.9</b> | <b>63.4</b> | <b>58.3</b> | <b>0.2</b> | <b>11.4</b> | <b>2.6</b> | <b>12.5</b> | <b>3.1</b> | <b>2.4</b> | <b>5.1</b> |
| <b>Regional Threshold</b>    |  | <b>75</b>   | <b>100</b>  | <b>550</b>  | <b>150</b> |             |            | <b>150</b>  |            |            | <b>55</b>  |
| <b>Exceeds Threshold</b>     |  | <b>NO</b>   | <b>NO</b>   | <b>NO</b>   | <b>NO</b>  |             |            | <b>NO</b>   |            |            | <b>NO</b>  |

|                      |  |            |             |  |  |  |  |           |  |  |            |
|----------------------|--|------------|-------------|--|--|--|--|-----------|--|--|------------|
| <b>LST Threshold</b> |  | <b>218</b> | <b>1388</b> |  |  |  |  | <b>10</b> |  |  | <b>5.3</b> |
| <b>Exceeds LST</b>   |  | <b>NO</b>  | <b>NO</b>   |  |  |  |  | <b>NO</b> |  |  | <b>NO</b>  |

**Operational Emission Summary (pounds/day)**

| Source                    | ROG        | NOx        | CO          | SOX        | PM10       | PM2.5     |
|---------------------------|------------|------------|-------------|------------|------------|-----------|
| Area                      | 7.7        | 0          | 0.1         | 0          | 0          | 0         |
| Energy                    | 0.3        | 2.3        | 1.9         | 0          | 0.2        | 0.2       |
| Mobile                    | 1.9        | 7.5        | 22.2        | 0.2        | 6.7        | 1.8       |
| <b>Total</b>              | <b>9.9</b> | <b>9.8</b> | <b>24.2</b> | <b>0.2</b> | <b>6.9</b> | <b>2</b>  |
| <b>Regional Threshold</b> | <b>55</b>  | <b>55</b>  | <b>550</b>  | <b>150</b> | <b>150</b> | <b>55</b> |
| <b>Exceeds Threshold</b>  | <b>NO</b>  | <b>NO</b>  | <b>NO</b>   | <b>NO</b>  | <b>NO</b>  | <b>NO</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**Sand Canyon Resort, Santa Clarita, CA**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                  | Size   | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|--------|-------------|--------------------|------------|
| Other Asphalt Surfaces     | 4.00   | Acre   | 4.00        | 174,240.00         | 0          |
| Other Non-Asphalt Surfaces | 1.90   | Acre   | 1.90        | 82,764.00          | 0          |
| Parking Lot                | 400.00 | Space  | 2.60        | 115,000.00         | 0          |
| City Park                  | 28.70  | Acre   | 28.70       | 1,250,172.00       | 0          |
| Hotel                      | 392.00 | Room   | 8.10        | 352,890.00         | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 33    |
| <b>Climate Zone</b>            | 9                          |                                |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 532                        | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

Project Characteristics - 532 MTCO<sub>2</sub>e SCE emission rate for 2020-2029

Land Use - Detention basin = 1.9 acres

Hotel complex (392 rooms includes 13,000 sf for tennis courts and 3,000 sq ft for restrooms

Landscaping (as City Park): 28.7 acres

Parking lot (400 spaces)

Other asphalt surfaces (internal roadway): 4 acres

Construction Phase - .Conceptual schedule with start in January 2021 and duration of at least 18 months

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Larger equipment used

Off-road Equipment -

Off-road Equipment - Larger equipment used

Demolition - Demolition of existing concrete pathways (65,000 sq-ft concrete)and restroom (1200 sq-ft)

Grading - Assumption based on client input

Architectural Coating - Use of architectural coatings of 50 g/l in accordance with SCAQMD Rule 1113

Vehicle Trips - Resort Hotel Land Use Trip Generation Rate as derived in the Stantec Trip

Generation Memorandum 11/8/2019

Area Coating - USE of coating with hc content of 50 g/l as per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Watering every 2 hours as per the WRAP Fugitive Dust Handboo

Water Mitigation - 20% reduction of indoor/outdoor water usage

Waste Mitigation - 75% solid waste diversion as set forth in AB341

Fleet Mix - Default fleet mix

| Table Name              | Column Name                     | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior      | 100.00        | 50.00     |
| tblArchitecturalCoating | EF_Nonresidential_Interior      | 100.00        | 50.00     |
| tblArchitecturalCoating | EF_Parking                      | 100.00        | 50.00     |
| tblAreaCoating          | Area_EF_Nonresidential_Exterior | 100           | 50        |
| tblAreaCoating          | Area_EF_Nonresidential_Interior | 100           | 50        |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|                        |                                      |        |        |
|------------------------|--------------------------------------|--------|--------|
| tblConstDustMitigation | WaterExposedAreaPM10PercentReduction | 61     | 74     |
| tblConstDustMitigation | WaterExposedAreaPM25PercentReduction | 61     | 74     |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent      | 0      | 12     |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed         | 0      | 15     |
| tblConstructionPhase   | NumDays                              | 55.00  | 40.00  |
| tblConstructionPhase   | NumDays                              | 740.00 | 300.00 |
| tblConstructionPhase   | NumDays                              | 50.00  | 10.00  |
| tblConstructionPhase   | NumDays                              | 75.00  | 50.00  |
| tblConstructionPhase   | NumDays                              | 55.00  | 30.00  |
| tblConstructionPhase   | NumDays                              | 30.00  | 25.00  |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LHD1                                 | 0.02   | 0.00   |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|             |      |             |      |
|-------------|------|-------------|------|
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|                           |                            |             |                  |
|---------------------------|----------------------------|-------------|------------------|
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblGrading                | AcresOfGrading             | 175.00      | 187.50           |
| tblGrading                | AcresOfGrading             | 50.00       | 0.00             |
| tblGrading                | MaterialImported           | 0.00        | 10,000.00        |
| tblLandUse                | LandUseSquareFeet          | 160,000.00  | 115,000.00       |
| tblLandUse                | LandUseSquareFeet          | 569,184.00  | 352,890.00       |
| tblLandUse                | LotAcreage                 | 3.60        | 2.60             |
| tblLandUse                | LotAcreage                 | 13.07       | 8.10             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00        | 0.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 4.00        | 0.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 0.00        | 4.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 0.00        | 2.00             |
| tblOffRoadEquipment       | PhaseName                  |             | Site Preparation |
| tblOffRoadEquipment       | PhaseName                  |             | Grading          |
| tblProjectCharacteristics | CO2IntensityFactor         | 702.44      | 532              |
| tblVehicleTrips           | ST_TR                      | 22.75       | 0.00             |
| tblVehicleTrips           | ST_TR                      | 8.19        | 3.36             |
| tblVehicleTrips           | SU_TR                      | 16.74       | 0.00             |
| tblVehicleTrips           | SU_TR                      | 5.95        | 3.36             |
| tblVehicleTrips           | WD_TR                      | 1.89        | 0.00             |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|                 |       |      |      |
|-----------------|-------|------|------|
| tblVehicleTrips | WD_TR | 8.17 | 2.35 |
|-----------------|-------|------|------|

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

|                | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year           | lb/day         |                |                |               |                |               |                |                |               |                | lb/day        |                    |                    |               |               |                    |
| 2021           | 6.4436         | 63.3094        | 58.2291        | 0.2051        | 18.2675        | 2.6476        | 20.9151        | 9.9840         | 2.4358        | 12.4199        | 0.0000        | 20,911.2861        | 20,911.2861        | 2.3903        | 0.0000        | 20,946.7660        |
| 2022           | 43.0554        | 47.7396        | 54.9873        | 0.2010        | 11.3518        | 0.9379        | 12.2897        | 3.0577         | 0.8818        | 3.9395         | 0.0000        | 20,502.1886        | 20,502.1886        | 1.3703        | 0.0000        | 20,536.4456        |
| <b>Maximum</b> | <b>43.0554</b> | <b>63.3094</b> | <b>58.2291</b> | <b>0.2051</b> | <b>18.2675</b> | <b>2.6476</b> | <b>20.9151</b> | <b>9.9840</b>  | <b>2.4358</b> | <b>12.4199</b> | <b>0.0000</b> | <b>20,911.2861</b> | <b>20,911.2861</b> | <b>2.3903</b> | <b>0.0000</b> | <b>20,946.7660</b> |

**Mitigated Construction**

|                | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year           | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| 2021           | 6.4436         | 63.3094        | 58.2291        | 0.2051        | 11.3517        | 2.6476        | 12.4497        | 3.0577         | 2.4358        | 5.0712        | 0.0000        | 20,911.2861        | 20,911.2861        | 2.3903        | 0.0000        | 20,946.7660        |
| 2022           | 43.0554        | 47.7396        | 54.9873        | 0.2010        | 11.3518        | 0.9379        | 12.2897        | 3.0577         | 0.8818        | 3.9395        | 0.0000        | 20,502.1886        | 20,502.1886        | 1.3703        | 0.0000        | 20,536.4456        |
| <b>Maximum</b> | <b>43.0554</b> | <b>63.3094</b> | <b>58.2291</b> | <b>0.2051</b> | <b>11.3518</b> | <b>2.6476</b> | <b>12.4497</b> | <b>3.0577</b>  | <b>2.4358</b> | <b>5.0712</b> | <b>0.0000</b> | <b>20,911.2861</b> | <b>20,911.2861</b> | <b>2.3903</b> | <b>0.0000</b> | <b>20,946.7660</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 23.35         | 0.00         | 25.49      | 53.11          | 0.00          | 44.92       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |               |                    |
| Area         | 7.6677        | 7.7000e-004   | 0.0844         | 1.0000e-005   |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 0.1809             | 0.1809             | 4.7000e-004   |               | 0.1928             |
| Energy       | 0.2500        | 2.2730        | 1.9093         | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753         | 2,727.5753         | 0.0523        | 0.0500        | 2,743.7839         |
| Mobile       | 1.8767        | 7.5386        | 22.1933        | 0.0813        | 6.6831        | 0.0602        | 6.7433        | 1.7884         | 0.0559        | 1.8444        |          | 8,279.4598         | 8,279.4598         | 0.4061        |               | 8,289.6128         |
| <b>Total</b> | <b>9.7944</b> | <b>9.8123</b> | <b>24.1870</b> | <b>0.0949</b> | <b>6.6831</b> | <b>0.2332</b> | <b>6.9163</b> | <b>1.7884</b>  | <b>0.2290</b> | <b>2.0174</b> |          | <b>11,007.2160</b> | <b>11,007.2160</b> | <b>0.4589</b> | <b>0.0500</b> | <b>11,033.5894</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |               |                    |
| Area         | 7.6677        | 7.7000e-004   | 0.0844         | 1.0000e-005   |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 0.1809             | 0.1809             | 4.7000e-004   |               | 0.1928             |
| Energy       | 0.2500        | 2.2730        | 1.9093         | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753         | 2,727.5753         | 0.0523        | 0.0500        | 2,743.7839         |
| Mobile       | 1.8767        | 7.5386        | 22.1933        | 0.0813        | 6.6831        | 0.0602        | 6.7433        | 1.7884         | 0.0559        | 1.8444        |          | 8,279.4598         | 8,279.4598         | 0.4061        |               | 8,289.6128         |
| <b>Total</b> | <b>9.7944</b> | <b>9.8123</b> | <b>24.1870</b> | <b>0.0949</b> | <b>6.6831</b> | <b>0.2332</b> | <b>6.9163</b> | <b>1.7884</b>  | <b>0.2290</b> | <b>2.0174</b> |          | <b>11,007.2160</b> | <b>11,007.2160</b> | <b>0.4589</b> | <b>0.0500</b> | <b>11,033.5894</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/4/2021   | 1/15/2021 | 5             | 10       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/16/2021  | 2/19/2021 | 5             | 25       |                   |
| 3            | Grading               | Grading               | 2/20/2021  | 4/30/2021 | 5             | 50       |                   |
| 4            | Building Construction | Building Construction | 5/1/2021   | 6/24/2022 | 5             | 300      |                   |
| 5            | Paving                | Paving                | 6/25/2022  | 8/5/2022  | 5             | 30       |                   |
| 6            | Architectural Coating | Architectural Coating | 8/6/2022   | 9/30/2022 | 5             | 40       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 8.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 529,335; Non-Residential Outdoor: 176,445; Striped Parking Area: 22,320 (Architectural Coating – sqft)

#### OffRoad Equipment

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Crawler Tractors          | 4      | 8.00        | 212         | 0.43        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Crawler Tractors          | 2      | 8.00        | 212         | 0.43        |
| 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 | 0      | 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**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 168.00              | 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               | 1,250.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 830.00             | 324.00             | 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                       | 166.00             | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Water Exposed Area
- Water Unpaved Roads
- 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 |               |                |                |               | 3.6378        | 0.0000        | 3.6378        | 0.5508         | 0.0000        | 0.5508        |          |                   | 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        |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>3.6378</b> | <b>1.5513</b> | <b>5.1892</b> | <b>0.5508</b>  | <b>1.4411</b> | <b>1.9919</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.1401        | 4.5065        | 1.0566        | 0.0131        | 0.2938        | 0.0138        | 0.3076        | 0.0805         | 0.0132        | 0.0938        |          | 1,422.0297        | 1,422.0297        | 0.0965        |     | 1,424.4423        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0643        | 0.0442        | 0.6042        | 1.7100e-003   | 0.1677        | 1.3500e-003   | 0.1690        | 0.0445         | 1.2500e-003   | 0.0457        |          | 170.8155          | 170.8155          | 5.0300e-003   |     | 170.9413          |
| <b>Total</b> | <b>0.2044</b> | <b>4.5507</b> | <b>1.6608</b> | <b>0.0148</b> | <b>0.4614</b> | <b>0.0152</b> | <b>0.4766</b> | <b>0.1250</b>  | <b>0.0145</b> | <b>0.1395</b> |          | <b>1,592.8452</b> | <b>1,592.8452</b> | <b>0.1015</b> |     | <b>1,595.3836</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.9458        | 0.0000        | 0.9458        | 0.1432         | 0.0000        | 0.1432        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        | 0.0000        | 3,747.9449        | 3,747.9449        | 1.0549        |     | 3,774.3174        |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>0.9458</b> | <b>1.5513</b> | <b>2.4972</b> | <b>0.1432</b>  | <b>1.4411</b> | <b>1.5843</b> | <b>0.0000</b> | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.1401        | 4.5065        | 1.0566        | 0.0131        | 0.2938        | 0.0138        | 0.3076        | 0.0805         | 0.0132        | 0.0938        |          | 1,422.0297        | 1,422.0297        | 0.0965        |     | 1,424.4423        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0643        | 0.0442        | 0.6042        | 1.7100e-003   | 0.1677        | 1.3500e-003   | 0.1690        | 0.0445         | 1.2500e-003   | 0.0457        |          | 170.8155          | 170.8155          | 5.0300e-003   |     | 170.9413          |
| <b>Total</b> | <b>0.2044</b> | <b>4.5507</b> | <b>1.6608</b> | <b>0.0148</b> | <b>0.4614</b> | <b>0.0152</b> | <b>0.4766</b> | <b>0.1250</b>  | <b>0.0145</b> | <b>0.1395</b> |          | <b>1,592.8452</b> | <b>1,592.8452</b> | <b>0.1015</b> |     | <b>1,595.3836</b> |

**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      | 5.3428        | 60.7861        | 21.8537        | 0.0570        |                | 2.6460        | 2.6460         |                | 2.4343        | 2.4343         |          | 5,523.5047        | 5,523.5047        | 1.7864        |     | 5,568.1651        |
| <b>Total</b>  | <b>5.3428</b> | <b>60.7861</b> | <b>21.8537</b> | <b>0.0570</b> | <b>18.0663</b> | <b>2.6460</b> | <b>20.7123</b> | <b>9.9307</b>  | <b>2.4343</b> | <b>12.3650</b> |          | <b>5,523.5047</b> | <b>5,523.5047</b> | <b>1.7864</b> |     | <b>5,568.1651</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0772        | 0.0530        | 0.7250        | 2.0600e-003        | 0.2012        | 1.6300e-003        | 0.2028        | 0.0534         | 1.5000e-003        | 0.0549        |          | 204.9786        | 204.9786        | 6.0400e-003        |     | 205.1296        |
| <b>Total</b> | <b>0.0772</b> | <b>0.0530</b> | <b>0.7250</b> | <b>2.0600e-003</b> | <b>0.2012</b> | <b>1.6300e-003</b> | <b>0.2028</b> | <b>0.0534</b>  | <b>1.5000e-003</b> | <b>0.0549</b> |          | <b>204.9786</b> | <b>204.9786</b> | <b>6.0400e-003</b> |     | <b>205.1296</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 4.6972        | 0.0000        | 4.6972        | 2.5820         | 0.0000        | 2.5820        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 5.3428        | 60.7861        | 21.8537        | 0.0570        |               | 2.6460        | 2.6460        |                | 2.4343        | 2.4343        | 0.0000        | 5,523.5047        | 5,523.5047        | 1.7864        |     | 5,568.1651        |
| <b>Total</b>  | <b>5.3428</b> | <b>60.7861</b> | <b>21.8537</b> | <b>0.0570</b> | <b>4.6972</b> | <b>2.6460</b> | <b>7.3432</b> | <b>2.5820</b>  | <b>2.4343</b> | <b>5.0163</b> | <b>0.0000</b> | <b>5,523.5047</b> | <b>5,523.5047</b> | <b>1.7864</b> |     | <b>5,568.1651</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0772        | 0.0530        | 0.7250        | 2.0600e-003        | 0.2012        | 1.6300e-003        | 0.2028        | 0.0534         | 1.5000e-003        | 0.0549        |          | 204.9786        | 204.9786        | 6.0400e-003        |     | 205.1296        |
| <b>Total</b> | <b>0.0772</b> | <b>0.0530</b> | <b>0.7250</b> | <b>2.0600e-003</b> | <b>0.2012</b> | <b>1.6300e-003</b> | <b>0.2028</b> | <b>0.0534</b>  | <b>1.5000e-003</b> | <b>0.0549</b> |          | <b>204.9786</b> | <b>204.9786</b> | <b>6.0400e-003</b> |     | <b>205.1296</b> |

**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 |               |                |                |               | 10.0216        | 0.0000        | 10.0216        | 3.7431         | 0.0000        | 3.7431        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.9185        | 56.5443        | 31.2281        | 0.0715        |                | 2.2861        | 2.2861         |                | 2.1032        | 2.1032        |          | 6,925.9674        | 6,925.9674        | 2.2400        |     | 6,981.9673        |
| <b>Total</b>  | <b>4.9185</b> | <b>56.5443</b> | <b>31.2281</b> | <b>0.0715</b> | <b>10.0216</b> | <b>2.2861</b> | <b>12.3077</b> | <b>3.7431</b>  | <b>2.1032</b> | <b>5.8463</b> |          | <b>6,925.9674</b> | <b>6,925.9674</b> | <b>2.2400</b> |     | <b>6,981.9673</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.2085        | 6.7061        | 1.5724        | 0.0195        | 0.4371        | 0.0206        | 0.4577        | 0.1198         | 0.0197        | 0.1395        |          | 2,116.1157        | 2,116.1157        | 0.1436        |     | 2,119.7059        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0857        | 0.0589        | 0.8056        | 2.2900e-003   | 0.2236        | 1.8100e-003   | 0.2254        | 0.0593         | 1.6600e-003   | 0.0610        |          | 227.7540          | 227.7540          | 6.7100e-003   |     | 227.9217          |
| <b>Total</b> | <b>0.2942</b> | <b>6.7650</b> | <b>2.3779</b> | <b>0.0218</b> | <b>0.6607</b> | <b>0.0224</b> | <b>0.6831</b> | <b>0.1791</b>  | <b>0.0214</b> | <b>0.2005</b> |          | <b>2,343.8697</b> | <b>2,343.8697</b> | <b>0.1503</b> |     | <b>2,347.6276</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.6056        | 0.0000        | 2.6056        | 0.9732         | 0.0000        | 0.9732        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.9185        | 56.5443        | 31.2281        | 0.0715        |               | 2.2861        | 2.2861        |                | 2.1032        | 2.1032        | 0.0000        | 6,925.9674        | 6,925.9674        | 2.2400        |     | 6,981.9673        |
| <b>Total</b>  | <b>4.9185</b> | <b>56.5443</b> | <b>31.2281</b> | <b>0.0715</b> | <b>2.6056</b> | <b>2.2861</b> | <b>4.8917</b> | <b>0.9732</b>  | <b>2.1032</b> | <b>3.0764</b> | <b>0.0000</b> | <b>6,925.9674</b> | <b>6,925.9674</b> | <b>2.2400</b> |     | <b>6,981.9673</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.2085        | 6.7061        | 1.5724        | 0.0195        | 0.4371        | 0.0206        | 0.4577        | 0.1198         | 0.0197        | 0.1395        |          | 2,116.1157        | 2,116.1157        | 0.1436        |     | 2,119.7059        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0857        | 0.0589        | 0.8056        | 2.2900e-003   | 0.2236        | 1.8100e-003   | 0.2254        | 0.0593         | 1.6600e-003   | 0.0610        |          | 227.7540          | 227.7540          | 6.7100e-003   |     | 227.9217          |
| <b>Total</b> | <b>0.2942</b> | <b>6.7650</b> | <b>2.3779</b> | <b>0.0218</b> | <b>0.6607</b> | <b>0.0224</b> | <b>0.6831</b> | <b>0.1791</b>  | <b>0.0214</b> | <b>0.2005</b> |          | <b>2,343.8697</b> | <b>2,343.8697</b> | <b>0.1503</b> |     | <b>2,347.6276</b> |

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 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        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Vendor       | 0.9848        | 31.4570        | 8.2237         | 0.0833        | 2.0743         | 0.0643        | 2.1386         | 0.5972         | 0.0615        | 0.6587        |          | 8,906.1324         | 8,906.1324         | 0.5247        |     | 8,919.2496         |
| Worker       | 3.5579        | 2.4455         | 33.4302        | 0.0949        | 9.2774         | 0.0750        | 9.3524         | 2.4604         | 0.0691        | 2.5295        |          | 9,451.7898         | 9,451.7898         | 0.2785        |     | 9,458.7522         |
| <b>Total</b> | <b>4.5427</b> | <b>33.9025</b> | <b>41.6539</b> | <b>0.1782</b> | <b>11.3517</b> | <b>0.1393</b> | <b>11.4910</b> | <b>3.0577</b>  | <b>0.1306</b> | <b>3.1882</b> |          | <b>18,357.9222</b> | <b>18,357.9222</b> | <b>0.8032</b> |     | <b>18,378.0017</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Vendor       | 0.9848        | 31.4570        | 8.2237         | 0.0833        | 2.0743         | 0.0643        | 2.1386         | 0.5972         | 0.0615        | 0.6587        |          | 8,906.1324         | 8,906.1324         | 0.5247        |     | 8,919.2496         |
| Worker       | 3.5579        | 2.4455         | 33.4302        | 0.0949        | 9.2774         | 0.0750        | 9.3524         | 2.4604         | 0.0691        | 2.5295        |          | 9,451.7898         | 9,451.7898         | 0.2785        |     | 9,458.7522         |
| <b>Total</b> | <b>4.5427</b> | <b>33.9025</b> | <b>41.6539</b> | <b>0.1782</b> | <b>11.3517</b> | <b>0.1393</b> | <b>11.4910</b> | <b>3.0577</b>  | <b>0.1306</b> | <b>3.1882</b> |          | <b>18,357.9222</b> | <b>18,357.9222</b> | <b>0.8032</b> |     | <b>18,378.0017</b> |

**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        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> |          | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     | <b>2,569.6322</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.9243        | 29.9150        | 7.7809         | 0.0825        | 2.0743         | 0.0562        | 2.1306         | 0.5972         | 0.0538        | 0.6510        |          | 8,828.5428         | 8,828.5428         | 0.5066        |     | 8,841.2087         |
| Worker       | 3.3327        | 2.2090         | 30.8430        | 0.0915        | 9.2774         | 0.0726        | 9.3501         | 2.4604         | 0.0669        | 2.5273        |          | 9,119.3122         | 9,119.3122         | 0.2517        |     | 9,125.6047         |
| <b>Total</b> | <b>4.2569</b> | <b>32.1240</b> | <b>38.6239</b> | <b>0.1740</b> | <b>11.3518</b> | <b>0.1289</b> | <b>11.4807</b> | <b>3.0577</b>  | <b>0.1207</b> | <b>3.1783</b> |          | <b>17,947.8550</b> | <b>17,947.8550</b> | <b>0.7583</b> |     | <b>17,966.8133</b> |

**Mitigated Construction On-Site**

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.9243        | 29.9150        | 7.7809         | 0.0825        | 2.0743         | 0.0562        | 2.1306         | 0.5972         | 0.0538        | 0.6510        |          | 8,828.5428         | 8,828.5428         | 0.5066        |     | 8,841.2087         |
| Worker       | 3.3327        | 2.2090         | 30.8430        | 0.0915        | 9.2774         | 0.0726        | 9.3501         | 2.4604         | 0.0669        | 2.5273        |          | 9,119.3122         | 9,119.3122         | 0.2517        |     | 9,125.6047         |
| <b>Total</b> | <b>4.2569</b> | <b>32.1240</b> | <b>38.6239</b> | <b>0.1740</b> | <b>11.3518</b> | <b>0.1289</b> | <b>11.4807</b> | <b>3.0577</b>  | <b>0.1207</b> | <b>3.1783</b> |          | <b>17,947.8550</b> | <b>17,947.8550</b> | <b>0.7583</b> |     | <b>17,966.8133</b> |

**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       | 0.5764        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6792</b> | <b>11.1249</b> | <b>14.5805</b> | <b>0.0228</b> |               | <b>0.5679</b> | <b>0.5679</b> |                | <b>0.5225</b> | <b>0.5225</b> |          | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0602        | 0.0399        | 0.5574        | 1.6500e-003        | 0.1677        | 1.3100e-003        | 0.1690        | 0.0445         | 1.2100e-003        | 0.0457        |          | 164.8069        | 164.8069        | 4.5500e-003        |     | 164.9206        |
| <b>Total</b> | <b>0.0602</b> | <b>0.0399</b> | <b>0.5574</b> | <b>1.6500e-003</b> | <b>0.1677</b> | <b>1.3100e-003</b> | <b>0.1690</b> | <b>0.0445</b>  | <b>1.2100e-003</b> | <b>0.0457</b> |          | <b>164.8069</b> | <b>164.8069</b> | <b>4.5500e-003</b> |     | <b>164.9206</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.1028        | 11.1249        | 14.5805        | 0.0228        |               | 0.5679        | 0.5679        |                | 0.5225        | 0.5225        | 0.0000        | 2,207.6603        | 2,207.6603        | 0.7140        |     | 2,225.5104        |
| Paving       | 0.5764        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6792</b> | <b>11.1249</b> | <b>14.5805</b> | <b>0.0228</b> |               | <b>0.5679</b> | <b>0.5679</b> |                | <b>0.5225</b> | <b>0.5225</b> | <b>0.0000</b> | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0602        | 0.0399        | 0.5574        | 1.6500e-003        | 0.1677        | 1.3100e-003        | 0.1690        | 0.0445         | 1.2100e-003        | 0.0457        |          | 164.8069        | 164.8069        | 4.5500e-003        |     | 164.9206        |
| <b>Total</b> | <b>0.0602</b> | <b>0.0399</b> | <b>0.5574</b> | <b>1.6500e-003</b> | <b>0.1677</b> | <b>1.3100e-003</b> | <b>0.1690</b> | <b>0.0445</b>  | <b>1.2100e-003</b> | <b>0.0457</b> |          | <b>164.8069</b> | <b>164.8069</b> | <b>4.5500e-003</b> |     | <b>164.9206</b> |

**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 | 42.1843        |               |               |                    |               | 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        |
| <b>Total</b>    | <b>42.3888</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.6665        | 0.4418        | 6.1686        | 0.0183        | 1.8555        | 0.0145        | 1.8700        | 0.4921         | 0.0134        | 0.5055        |          | 1,823.8625        | 1,823.8625        | 0.0503        |     | 1,825.1209        |
| <b>Total</b> | <b>0.6665</b> | <b>0.4418</b> | <b>6.1686</b> | <b>0.0183</b> | <b>1.8555</b> | <b>0.0145</b> | <b>1.8700</b> | <b>0.4921</b>  | <b>0.0134</b> | <b>0.5055</b> |          | <b>1,823.8625</b> | <b>1,823.8625</b> | <b>0.0503</b> |     | <b>1,825.1209</b> |

**Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 42.1843        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.9700e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        | 0.0000        | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>42.3888</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.6665        | 0.4418        | 6.1686        | 0.0183        | 1.8555        | 0.0145        | 1.8700        | 0.4921         | 0.0134        | 0.5055        |          | 1,823.8625        | 1,823.8625        | 0.0503        |     | 1,825.1209        |
| <b>Total</b> | <b>0.6665</b> | <b>0.4418</b> | <b>6.1686</b> | <b>0.0183</b> | <b>1.8555</b> | <b>0.0145</b> | <b>1.8700</b> | <b>0.4921</b>  | <b>0.0134</b> | <b>0.5055</b> |          | <b>1,823.8625</b> | <b>1,823.8625</b> | <b>0.0503</b> |     | <b>1,825.1209</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 1.8767 | 7.5386 | 22.1933 | 0.0813 | 6.6831        | 0.0602       | 6.7433     | 1.7884         | 0.0559        | 1.8444      |          | 8,279.4598 | 8,279.4598 | 0.4061 |     | 8,289.6128 |
| Unmitigated | 1.8767 | 7.5386 | 22.1933 | 0.0813 | 6.6831        | 0.0602       | 6.7433     | 1.7884         | 0.0559        | 1.8444      |          | 8,279.4598 | 8,279.4598 | 0.4061 |     | 8,289.6128 |

4.2 Trip Summary Information

| Land Use                   | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|----------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                            | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| City Park                  | 0.00                    | 0.00            | 0.00            |                  |                  |
| Hotel                      | 921.20                  | 1,317.12        | 1317.12         | 2,468,064        | 2,468,064        |
| Other Asphalt Surfaces     | 0.00                    | 0.00            | 0.00            |                  |                  |
| Other Non-Asphalt Surfaces | 0.00                    | 0.00            | 0.00            |                  |                  |
| Parking Lot                | 0.00                    | 0.00            | 0.00            |                  |                  |
| <b>Total</b>               | <b>921.20</b>           | <b>1,317.12</b> | <b>1,317.12</b> | <b>2,468,064</b> | <b>2,468,064</b> |

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 |
| City Park                  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Hotel                      | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Other Asphalt Surfaces     | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Other Non-Asphalt Surfaces | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**4.4 Fleet Mix**

| Land Use                   | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park                  | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Hotel                      | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| Other Asphalt Surfaces     | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Other Non-Asphalt Surfaces | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Parking Lot                | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.2500 | 2.2730 | 1.9093 | 0.0136 |               | 0.1728       | 0.1728     |                | 0.1728        | 0.1728      |          | 2,727.5753 | 2,727.5753 | 0.0523 | 0.0500 | 2,743.7839 |
| NaturalGas Unmitigated | 0.2500 | 2.2730 | 1.9093 | 0.0136 |               | 0.1728       | 0.1728     |                | 0.1728        | 0.1728      |          | 2,727.5753 | 2,727.5753 | 0.0523 | 0.0500 | 2,743.7839 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                            | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                   | kBTU/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| City Park                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Hotel                      | 23184.4        | 0.2500        | 2.2730        | 1.9093        | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753        | 2,727.5753        | 0.0523        | 0.0500        | 2,743.7839        |
| Other Asphalt Surfaces     | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Other Non-Asphalt Surfaces | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b>               |                | <b>0.2500</b> | <b>2.2730</b> | <b>1.9093</b> | <b>0.0136</b> |               | <b>0.1728</b> | <b>0.1728</b> |                | <b>0.1728</b> | <b>0.1728</b> |          | <b>2,727.5753</b> | <b>2,727.5753</b> | <b>0.0523</b> | <b>0.0500</b> | <b>2,743.7839</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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   |                   |                   |               |               |                   |
| City Park                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Hotel                      | 23.1844        | 0.2500        | 2.2730        | 1.9093        | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753        | 2,727.5753        | 0.0523        | 0.0500        | 2,743.7839        |
| Other Asphalt Surfaces     | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Other Non-Asphalt Surfaces | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b>               |                | <b>0.2500</b> | <b>2.2730</b> | <b>1.9093</b> | <b>0.0136</b> |               | <b>0.1728</b> | <b>0.1728</b> |                | <b>0.1728</b> | <b>0.1728</b> |          | <b>2,727.5753</b> | <b>2,727.5753</b> | <b>0.0523</b> | <b>0.0500</b> | <b>2,743.7839</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

|             | ROG    | NOx         | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |        |             |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 7.6677 | 7.7000e-004 | 0.0844 | 1.0000e-005 |               | 3.0000e-004  | 3.0000e-004 |                | 3.0000e-004   | 3.0000e-004 |          | 0.1809    | 0.1809    | 4.7000e-004 |     | 0.1928 |
| Unmitigated | 7.6677 | 7.7000e-004 | 0.0844 | 1.0000e-005 |               | 3.0000e-004  | 3.0000e-004 |                | 3.0000e-004   | 3.0000e-004 |          | 0.1809    | 0.1809    | 4.7000e-004 |     | 0.1928 |

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 | 0.4765        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 7.1834        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 7.8200e-003   | 7.7000e-004        | 0.0844        | 1.0000e-005        |               | 3.0000e-004        | 3.0000e-004        |                | 3.0000e-004        | 3.0000e-004        |          | 0.1809        | 0.1809        | 4.7000e-004        |     | 0.1928        |
| <b>Total</b>          | <b>7.6677</b> | <b>7.7000e-004</b> | <b>0.0844</b> | <b>1.0000e-005</b> |               | <b>3.0000e-004</b> | <b>3.0000e-004</b> |                | <b>3.0000e-004</b> | <b>3.0000e-004</b> |          | <b>0.1809</b> | <b>0.1809</b> | <b>4.7000e-004</b> |     | <b>0.1928</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |                    |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.4765        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 7.1834        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 7.8200e-003   | 7.7000e-004        | 0.0844        | 1.0000e-005        |               | 3.0000e-004        | 3.0000e-004        |                | 3.0000e-004        | 3.0000e-004        |          | 0.1809        | 0.1809        | 4.7000e-004        |     | 0.1928        |
| <b>Total</b>          | <b>7.6677</b> | <b>7.7000e-004</b> | <b>0.0844</b> | <b>1.0000e-005</b> |               | <b>3.0000e-004</b> | <b>3.0000e-004</b> |                | <b>3.0000e-004</b> | <b>3.0000e-004</b> |          | <b>0.1809</b> | <b>0.1809</b> | <b>4.7000e-004</b> |     | <b>0.1928</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Summer

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**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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Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**Sand Canyon Resort, Santa Clarita, CA**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                  | Size   | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|--------|-------------|--------------------|------------|
| Other Asphalt Surfaces     | 4.00   | Acre   | 4.00        | 174,240.00         | 0          |
| Other Non-Asphalt Surfaces | 1.90   | Acre   | 1.90        | 82,764.00          | 0          |
| Parking Lot                | 400.00 | Space  | 2.60        | 115,000.00         | 0          |
| City Park                  | 28.70  | Acre   | 28.70       | 1,250,172.00       | 0          |
| Hotel                      | 392.00 | Room   | 8.10        | 352,890.00         | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 33    |
| <b>Climate Zone</b>            | 9                          |                                |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 532                        | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

Project Characteristics - 532 MTCO<sub>2</sub>e SCE emission rate for 2020-2029

Land Use - Detention basin = 1.9 acres

Hotel complex (392 rooms includes 13,000 sf for tennis courts and 3,000 sq ft for restrooms

Landscaping (as City Park): 28.7 acres

Parking lot (400 spaces)

Other asphalt surfaces (internal roadway): 4 acres

Construction Phase - .Conceptual schedule with start in January 2021 and duration of at least 18 months

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Larger equipment used

Off-road Equipment -

Off-road Equipment - Larger equipment used

Demolition - Demolition of existing concrete pathways (65,000 sq-ft concrete)and restroom (1200 sq-ft)

Grading - Assumption based on client input

Architectural Coating - Use of architectural coatings of 50 g/l in accordance with SCAQMD Rule 1113

Vehicle Trips - Resort Hotel Land Use Trip Generation Rate as derived in the Stantec Trip

Generation Memorandum 11/8/2019

Area Coating - USE of coating with hc content of 50 g/l as per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Watering every 2 hours as per the WRAP Fugitive Dust Handboo

Water Mitigation - 20% reduction of indoor/outdoor water usage

Waste Mitigation - 75% solid waste diversion as set forth in AB341

Fleet Mix - Default fleet mix

| Table Name              | Column Name                     | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior      | 100.00        | 50.00     |
| tblArchitecturalCoating | EF_Nonresidential_Interior      | 100.00        | 50.00     |
| tblArchitecturalCoating | EF_Parking                      | 100.00        | 50.00     |
| tblAreaCoating          | Area_EF_Nonresidential_Exterior | 100           | 50        |
| tblAreaCoating          | Area_EF_Nonresidential_Interior | 100           | 50        |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|                        |                                      |        |        |
|------------------------|--------------------------------------|--------|--------|
| tblConstDustMitigation | WaterExposedAreaPM10PercentReduction | 61     | 74     |
| tblConstDustMitigation | WaterExposedAreaPM25PercentReduction | 61     | 74     |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent      | 0      | 12     |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed         | 0      | 15     |
| tblConstructionPhase   | NumDays                              | 55.00  | 40.00  |
| tblConstructionPhase   | NumDays                              | 740.00 | 300.00 |
| tblConstructionPhase   | NumDays                              | 50.00  | 10.00  |
| tblConstructionPhase   | NumDays                              | 75.00  | 50.00  |
| tblConstructionPhase   | NumDays                              | 55.00  | 30.00  |
| tblConstructionPhase   | NumDays                              | 30.00  | 25.00  |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LHD1                                 | 0.02   | 0.00   |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|             |      |             |      |
|-------------|------|-------------|------|
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|                           |                            |             |                  |
|---------------------------|----------------------------|-------------|------------------|
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblGrading                | AcresOfGrading             | 175.00      | 187.50           |
| tblGrading                | AcresOfGrading             | 50.00       | 0.00             |
| tblGrading                | MaterialImported           | 0.00        | 10,000.00        |
| tblLandUse                | LandUseSquareFeet          | 160,000.00  | 115,000.00       |
| tblLandUse                | LandUseSquareFeet          | 569,184.00  | 352,890.00       |
| tblLandUse                | LotAcreage                 | 3.60        | 2.60             |
| tblLandUse                | LotAcreage                 | 13.07       | 8.10             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00        | 0.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 4.00        | 0.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 0.00        | 4.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 0.00        | 2.00             |
| tblOffRoadEquipment       | PhaseName                  |             | Site Preparation |
| tblOffRoadEquipment       | PhaseName                  |             | Grading          |
| tblProjectCharacteristics | CO2IntensityFactor         | 702.44      | 532              |
| tblVehicleTrips           | ST_TR                      | 22.75       | 0.00             |
| tblVehicleTrips           | ST_TR                      | 8.19        | 3.36             |
| tblVehicleTrips           | SU_TR                      | 16.74       | 0.00             |
| tblVehicleTrips           | SU_TR                      | 5.95        | 3.36             |
| tblVehicleTrips           | WD_TR                      | 1.89        | 0.00             |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|                 |       |      |      |
|-----------------|-------|------|------|
| tblVehicleTrips | WD_TR | 8.17 | 2.35 |
|-----------------|-------|------|------|

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|                | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2      | NBio- CO2               | Total CO2               | CH4           | N2O           | CO2e                    |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year           | lb/day         |                |                |               |                |               |                |                |               |                | lb/day        |                         |                         |               |               |                         |
| 2021           | 6.8924         | 63.3978        | 56.2373        | 0.1973        | 18.2675        | 2.6476        | 20.9151        | 9.9840         | 2.4358        | 12.4199        | 0.0000        | 20,115.04<br>30         | 20,115.04<br>30         | 2.3950        | 0.0000        | 20,150.97<br>02         |
| 2022           | 43.1323        | 47.8940        | 53.1260        | 0.1934        | 11.3518        | 0.9397        | 12.2915        | 3.0577         | 0.8836        | 3.9413         | 0.0000        | 19,726.29<br>71         | 19,726.29<br>71         | 1.3879        | 0.0000        | 19,760.99<br>54         |
| <b>Maximum</b> | <b>43.1323</b> | <b>63.3978</b> | <b>56.2373</b> | <b>0.1973</b> | <b>18.2675</b> | <b>2.6476</b> | <b>20.9151</b> | <b>9.9840</b>  | <b>2.4358</b> | <b>12.4199</b> | <b>0.0000</b> | <b>20,115.04<br/>30</b> | <b>20,115.04<br/>30</b> | <b>2.3950</b> | <b>0.0000</b> | <b>20,150.97<br/>02</b> |

#### Mitigated Construction

|                | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2               | Total CO2               | CH4           | N2O           | CO2e                    |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year           | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                         |                         |               |               |                         |
| 2021           | 6.8924         | 63.3978        | 56.2373        | 0.1973        | 11.3517        | 2.6476        | 12.4517        | 3.0577         | 2.4358        | 5.0712        | 0.0000        | 20,115.04<br>30         | 20,115.04<br>30         | 2.3950        | 0.0000        | 20,150.97<br>02         |
| 2022           | 43.1323        | 47.8940        | 53.1260        | 0.1934        | 11.3518        | 0.9397        | 12.2915        | 3.0577         | 0.8836        | 3.9413        | 0.0000        | 19,726.29<br>71         | 19,726.29<br>71         | 1.3879        | 0.0000        | 19,760.99<br>54         |
| <b>Maximum</b> | <b>43.1323</b> | <b>63.3978</b> | <b>56.2373</b> | <b>0.1973</b> | <b>11.3518</b> | <b>2.6476</b> | <b>12.4517</b> | <b>3.0577</b>  | <b>2.4358</b> | <b>5.0712</b> | <b>0.0000</b> | <b>20,115.04<br/>30</b> | <b>20,115.04<br/>30</b> | <b>2.3950</b> | <b>0.0000</b> | <b>20,150.97<br/>02</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 23.35         | 0.00         | 25.49      | 53.11          | 0.00          | 44.92       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |               |                    |
| Area         | 7.6677        | 7.7000e-004   | 0.0844         | 1.0000e-005   |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 0.1809             | 0.1809             | 4.7000e-004   |               | 0.1928             |
| Energy       | 0.2500        | 2.2730        | 1.9093         | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753         | 2,727.5753         | 0.0523        | 0.0500        | 2,743.7839         |
| Mobile       | 1.8157        | 7.6793        | 21.2941        | 0.0772        | 6.6831        | 0.0605        | 6.7436        | 1.7884         | 0.0563        | 1.8447        |          | 7,874.6480         | 7,874.6480         | 0.4071        |               | 7,884.8242         |
| <b>Total</b> | <b>9.7335</b> | <b>9.9530</b> | <b>23.2878</b> | <b>0.0909</b> | <b>6.6831</b> | <b>0.2336</b> | <b>6.9167</b> | <b>1.7884</b>  | <b>0.2293</b> | <b>2.0178</b> |          | <b>10,602.4041</b> | <b>10,602.4041</b> | <b>0.4598</b> | <b>0.0500</b> | <b>10,628.8008</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |               |                    |
| Area         | 7.6677        | 7.7000e-004   | 0.0844         | 1.0000e-005   |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 0.1809             | 0.1809             | 4.7000e-004   |               | 0.1928             |
| Energy       | 0.2500        | 2.2730        | 1.9093         | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753         | 2,727.5753         | 0.0523        | 0.0500        | 2,743.7839         |
| Mobile       | 1.8157        | 7.6793        | 21.2941        | 0.0772        | 6.6831        | 0.0605        | 6.7436        | 1.7884         | 0.0563        | 1.8447        |          | 7,874.6480         | 7,874.6480         | 0.4071        |               | 7,884.8242         |
| <b>Total</b> | <b>9.7335</b> | <b>9.9530</b> | <b>23.2878</b> | <b>0.0909</b> | <b>6.6831</b> | <b>0.2336</b> | <b>6.9167</b> | <b>1.7884</b>  | <b>0.2293</b> | <b>2.0178</b> |          | <b>10,602.4041</b> | <b>10,602.4041</b> | <b>0.4598</b> | <b>0.0500</b> | <b>10,628.8008</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/4/2021   | 1/15/2021 | 5             | 10       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/16/2021  | 2/19/2021 | 5             | 25       |                   |
| 3            | Grading               | Grading               | 2/20/2021  | 4/30/2021 | 5             | 50       |                   |
| 4            | Building Construction | Building Construction | 5/1/2021   | 6/24/2022 | 5             | 300      |                   |
| 5            | Paving                | Paving                | 6/25/2022  | 8/5/2022  | 5             | 30       |                   |
| 6            | Architectural Coating | Architectural Coating | 8/6/2022   | 9/30/2022 | 5             | 40       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 8.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 529,335; Non-Residential Outdoor: 176,445; Striped Parking Area: 22,320 (Architectural Coating – sqft)

#### OffRoad Equipment

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Crawler Tractors          | 4      | 8.00        | 212         | 0.43        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Crawler Tractors          | 2      | 8.00        | 212         | 0.43        |
| 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 | 0      | 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**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 168.00              | 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               | 1,250.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 830.00             | 324.00             | 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                       | 166.00             | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Water Exposed Area
- Water Unpaved Roads
- 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 |               |                |                |               | 3.6378        | 0.0000        | 3.6378        | 0.5508         | 0.0000        | 0.5508        |          |                   | 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        |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>3.6378</b> | <b>1.5513</b> | <b>5.1892</b> | <b>0.5508</b>  | <b>1.4411</b> | <b>1.9919</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.1435        | 4.5617        | 1.1205        | 0.0129        | 0.2938        | 0.0140        | 0.3078        | 0.0805         | 0.0134        | 0.0940        |          | 1,397.3956        | 1,397.3956        | 0.0999        |     | 1,399.8933        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0715        | 0.0489        | 0.5524        | 1.6100e-003   | 0.1677        | 1.3500e-003   | 0.1690        | 0.0445         | 1.2500e-003   | 0.0457        |          | 160.8377          | 160.8377          | 4.7300e-003   |     | 160.9560          |
| <b>Total</b> | <b>0.2150</b> | <b>4.6106</b> | <b>1.6728</b> | <b>0.0145</b> | <b>0.4614</b> | <b>0.0154</b> | <b>0.4768</b> | <b>0.1250</b>  | <b>0.0147</b> | <b>0.1397</b> |          | <b>1,558.2333</b> | <b>1,558.2333</b> | <b>0.1046</b> |     | <b>1,560.8492</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.9458        | 0.0000        | 0.9458        | 0.1432         | 0.0000        | 0.1432        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        | 0.0000        | 3,747.9449        | 3,747.9449        | 1.0549        |     | 3,774.3174        |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>0.9458</b> | <b>1.5513</b> | <b>2.4972</b> | <b>0.1432</b>  | <b>1.4411</b> | <b>1.5843</b> | <b>0.0000</b> | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.1435        | 4.5617        | 1.1205        | 0.0129        | 0.2938        | 0.0140        | 0.3078        | 0.0805         | 0.0134        | 0.0940        |          | 1,397.3956        | 1,397.3956        | 0.0999        |     | 1,399.8933        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0715        | 0.0489        | 0.5524        | 1.6100e-003   | 0.1677        | 1.3500e-003   | 0.1690        | 0.0445         | 1.2500e-003   | 0.0457        |          | 160.8377          | 160.8377          | 4.7300e-003   |     | 160.9560          |
| <b>Total</b> | <b>0.2150</b> | <b>4.6106</b> | <b>1.6728</b> | <b>0.0145</b> | <b>0.4614</b> | <b>0.0154</b> | <b>0.4768</b> | <b>0.1250</b>  | <b>0.0147</b> | <b>0.1397</b> |          | <b>1,558.2333</b> | <b>1,558.2333</b> | <b>0.1046</b> |     | <b>1,560.8492</b> |

**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      | 5.3428        | 60.7861        | 21.8537        | 0.0570        |                | 2.6460        | 2.6460         |                | 2.4343        | 2.4343         |          | 5,523.5047        | 5,523.5047        | 1.7864        |     | 5,568.1651        |
| <b>Total</b>  | <b>5.3428</b> | <b>60.7861</b> | <b>21.8537</b> | <b>0.0570</b> | <b>18.0663</b> | <b>2.6460</b> | <b>20.7123</b> | <b>9.9307</b>  | <b>2.4343</b> | <b>12.3650</b> |          | <b>5,523.5047</b> | <b>5,523.5047</b> | <b>1.7864</b> |     | <b>5,568.1651</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0858        | 0.0587        | 0.6629        | 1.9400e-003        | 0.2012        | 1.6300e-003        | 0.2028        | 0.0534         | 1.5000e-003        | 0.0549        |          | 193.0052        | 193.0052        | 5.6800e-003        |     | 193.1472        |
| <b>Total</b> | <b>0.0858</b> | <b>0.0587</b> | <b>0.6629</b> | <b>1.9400e-003</b> | <b>0.2012</b> | <b>1.6300e-003</b> | <b>0.2028</b> | <b>0.0534</b>  | <b>1.5000e-003</b> | <b>0.0549</b> |          | <b>193.0052</b> | <b>193.0052</b> | <b>5.6800e-003</b> |     | <b>193.1472</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 4.6972        | 0.0000        | 4.6972        | 2.5820         | 0.0000        | 2.5820        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 5.3428        | 60.7861        | 21.8537        | 0.0570        |               | 2.6460        | 2.6460        |                | 2.4343        | 2.4343        | 0.0000        | 5,523.5047        | 5,523.5047        | 1.7864        |     | 5,568.1651        |
| <b>Total</b>  | <b>5.3428</b> | <b>60.7861</b> | <b>21.8537</b> | <b>0.0570</b> | <b>4.6972</b> | <b>2.6460</b> | <b>7.3432</b> | <b>2.5820</b>  | <b>2.4343</b> | <b>5.0163</b> | <b>0.0000</b> | <b>5,523.5047</b> | <b>5,523.5047</b> | <b>1.7864</b> |     | <b>5,568.1651</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0858        | 0.0587        | 0.6629        | 1.9400e-003        | 0.2012        | 1.6300e-003        | 0.2028        | 0.0534         | 1.5000e-003        | 0.0549        |          | 193.0052        | 193.0052        | 5.6800e-003        |     | 193.1472        |
| <b>Total</b> | <b>0.0858</b> | <b>0.0587</b> | <b>0.6629</b> | <b>1.9400e-003</b> | <b>0.2012</b> | <b>1.6300e-003</b> | <b>0.2028</b> | <b>0.0534</b>  | <b>1.5000e-003</b> | <b>0.0549</b> |          | <b>193.0052</b> | <b>193.0052</b> | <b>5.6800e-003</b> |     | <b>193.1472</b> |

**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 |               |                |                |               | 10.0216        | 0.0000        | 10.0216        | 3.7431         | 0.0000        | 3.7431        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.9185        | 56.5443        | 31.2281        | 0.0715        |                | 2.2861        | 2.2861         |                | 2.1032        | 2.1032        |          | 6,925.9674        | 6,925.9674        | 2.2400        |     | 6,981.9673        |
| <b>Total</b>  | <b>4.9185</b> | <b>56.5443</b> | <b>31.2281</b> | <b>0.0715</b> | <b>10.0216</b> | <b>2.2861</b> | <b>12.3077</b> | <b>3.7431</b>  | <b>2.1032</b> | <b>5.8463</b> |          | <b>6,925.9674</b> | <b>6,925.9674</b> | <b>2.2400</b> |     | <b>6,981.9673</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.2135        | 6.7882        | 1.6673        | 0.0192        | 0.4371        | 0.0209        | 0.4580        | 0.1198         | 0.0200        | 0.1398        |          | 2,079.4577        | 2,079.4577        | 0.1487        |     | 2,083.1745        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0954        | 0.0652        | 0.7365        | 2.1500e-003   | 0.2236        | 1.8100e-003   | 0.2254        | 0.0593         | 1.6600e-003   | 0.0610        |          | 214.4502          | 214.4502          | 6.3100e-003   |     | 214.6080          |
| <b>Total</b> | <b>0.3088</b> | <b>6.8535</b> | <b>2.4038</b> | <b>0.0213</b> | <b>0.6607</b> | <b>0.0227</b> | <b>0.6834</b> | <b>0.1791</b>  | <b>0.0217</b> | <b>0.2008</b> |          | <b>2,293.9080</b> | <b>2,293.9080</b> | <b>0.1550</b> |     | <b>2,297.7825</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.6056        | 0.0000        | 2.6056        | 0.9732         | 0.0000        | 0.9732        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.9185        | 56.5443        | 31.2281        | 0.0715        |               | 2.2861        | 2.2861        |                | 2.1032        | 2.1032        | 0.0000        | 6,925.9674        | 6,925.9674        | 2.2400        |     | 6,981.9673        |
| <b>Total</b>  | <b>4.9185</b> | <b>56.5443</b> | <b>31.2281</b> | <b>0.0715</b> | <b>2.6056</b> | <b>2.2861</b> | <b>4.8917</b> | <b>0.9732</b>  | <b>2.1032</b> | <b>3.0764</b> | <b>0.0000</b> | <b>6,925.9674</b> | <b>6,925.9674</b> | <b>2.2400</b> |     | <b>6,981.9673</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 0.2135        | 6.7882        | 1.6673        | 0.0192        | 0.4371        | 0.0209        | 0.4580        | 0.1198         | 0.0200        | 0.1398        |          | 2,079.4577        | 2,079.4577        | 0.1487        |     | 2,083.1745        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0954        | 0.0652        | 0.7365        | 2.1500e-003   | 0.2236        | 1.8100e-003   | 0.2254        | 0.0593         | 1.6600e-003   | 0.0610        |          | 214.4502          | 214.4502          | 6.3100e-003   |     | 214.6080          |
| <b>Total</b> | <b>0.3088</b> | <b>6.8535</b> | <b>2.4038</b> | <b>0.0213</b> | <b>0.6607</b> | <b>0.0227</b> | <b>0.6834</b> | <b>0.1791</b>  | <b>0.0217</b> | <b>0.2008</b> |          | <b>2,293.9080</b> | <b>2,293.9080</b> | <b>0.1550</b> |     | <b>2,297.7825</b> |

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 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        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> |          | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Vendor       | 1.0339        | 31.3920        | 9.0969         | 0.0811        | 2.0743         | 0.0664        | 2.1407         | 0.5972         | 0.0635        | 0.6607        |          | 8,661.9950         | 8,661.9950         | 0.5592        |     | 8,675.9748         |
| Worker       | 3.9576        | 2.7070         | 30.5652        | 0.0893        | 9.2774         | 0.0750        | 9.3524         | 2.4604         | 0.0691        | 2.5295        |          | 8,899.6841         | 8,899.6841         | 0.2619        |     | 8,906.2312         |
| <b>Total</b> | <b>4.9915</b> | <b>34.0990</b> | <b>39.6621</b> | <b>0.1704</b> | <b>11.3517</b> | <b>0.1414</b> | <b>11.4931</b> | <b>3.0577</b>  | <b>0.1325</b> | <b>3.1902</b> |          | <b>17,561.6791</b> | <b>17,561.6791</b> | <b>0.8211</b> |     | <b>17,582.2059</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.9009        | 17.4321        | 16.5752        | 0.0269        |               | 0.9586        | 0.9586        |                | 0.9013        | 0.9013        | 0.0000        | 2,553.3639        | 2,553.3639        | 0.6160        |     | 2,568.7643        |
| <b>Total</b> | <b>1.9009</b> | <b>17.4321</b> | <b>16.5752</b> | <b>0.0269</b> |               | <b>0.9586</b> | <b>0.9586</b> |                | <b>0.9013</b> | <b>0.9013</b> | <b>0.0000</b> | <b>2,553.3639</b> | <b>2,553.3639</b> | <b>0.6160</b> |     | <b>2,568.7643</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e |                    |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|------|--------------------|
| Category     | lb/day        |                |                |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |      |                    |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     |      | 0.0000             |
| Vendor       | 1.0339        | 31.3920        | 9.0969         | 0.0811        | 2.0743         | 0.0664        | 2.1407         | 0.5972         | 0.0635        | 0.6607        |          | 8,661.9950         | 8,661.9950         | 0.5592        |     |      | 8,675.9748         |
| Worker       | 3.9576        | 2.7070         | 30.5652        | 0.0893        | 9.2774         | 0.0750        | 9.3524         | 2.4604         | 0.0691        | 2.5295        |          | 8,899.6841         | 8,899.6841         | 0.2619        |     |      | 8,906.2312         |
| <b>Total</b> | <b>4.9915</b> | <b>34.0990</b> | <b>39.6621</b> | <b>0.1704</b> | <b>11.3517</b> | <b>0.1414</b> | <b>11.4931</b> | <b>3.0577</b>  | <b>0.1325</b> | <b>3.1902</b> |          | <b>17,561.6791</b> | <b>17,561.6791</b> | <b>0.8211</b> |     |      | <b>17,582.2059</b> |

**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        |
| <b>Total</b> | <b>1.7062</b> | <b>15.6156</b> | <b>16.3634</b> | <b>0.0269</b> |               | <b>0.8090</b> | <b>0.8090</b> |                | <b>0.7612</b> | <b>0.7612</b> |          | <b>2,554.3336</b> | <b>2,554.3336</b> | <b>0.6120</b> |     |      | <b>2,569.6322</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.9706        | 29.8337        | 8.6109         | 0.0803        | 2.0743         | 0.0581        | 2.1324         | 0.5972         | 0.0555        | 0.6528        |          | 8,585.0371         | 8,585.0371         | 0.5395        |     | 8,598.5257         |
| Worker       | 3.7171        | 2.4447         | 28.1516        | 0.0862        | 9.2774         | 0.0726        | 9.3501         | 2.4604         | 0.0669        | 2.5273        |          | 8,586.9265         | 8,586.9265         | 0.2364        |     | 8,592.8375         |
| <b>Total</b> | <b>4.6877</b> | <b>32.2784</b> | <b>36.7626</b> | <b>0.1664</b> | <b>11.3518</b> | <b>0.1307</b> | <b>11.4825</b> | <b>3.0577</b>  | <b>0.1224</b> | <b>3.1801</b> |          | <b>17,171.9635</b> | <b>17,171.9635</b> | <b>0.7760</b> |     | <b>17,191.3632</b> |

**Mitigated Construction On-Site**

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.9706        | 29.8337        | 8.6109         | 0.0803        | 2.0743         | 0.0581        | 2.1324         | 0.5972         | 0.0555        | 0.6528        |          | 8,585.0371         | 8,585.0371         | 0.5395        |     | 8,598.5257         |
| Worker       | 3.7171        | 2.4447         | 28.1516        | 0.0862        | 9.2774         | 0.0726        | 9.3501         | 2.4604         | 0.0669        | 2.5273        |          | 8,586.9265         | 8,586.9265         | 0.2364        |     | 8,592.8375         |
| <b>Total</b> | <b>4.6877</b> | <b>32.2784</b> | <b>36.7626</b> | <b>0.1664</b> | <b>11.3518</b> | <b>0.1307</b> | <b>11.4825</b> | <b>3.0577</b>  | <b>0.1224</b> | <b>3.1801</b> |          | <b>17,171.9635</b> | <b>17,171.9635</b> | <b>0.7760</b> |     | <b>17,191.3632</b> |

**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       | 0.5764        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6792</b> | <b>11.1249</b> | <b>14.5805</b> | <b>0.0228</b> |               | <b>0.5679</b> | <b>0.5679</b> |                | <b>0.5225</b> | <b>0.5225</b> |          | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0672        | 0.0442        | 0.5088        | 1.5600e-003        | 0.1677        | 1.3100e-003        | 0.1690        | 0.0445         | 1.2100e-003        | 0.0457        |          | 155.1854        | 155.1854        | 4.2700e-003        |     | 155.2922        |
| <b>Total</b> | <b>0.0672</b> | <b>0.0442</b> | <b>0.5088</b> | <b>1.5600e-003</b> | <b>0.1677</b> | <b>1.3100e-003</b> | <b>0.1690</b> | <b>0.0445</b>  | <b>1.2100e-003</b> | <b>0.0457</b> |          | <b>155.1854</b> | <b>155.1854</b> | <b>4.2700e-003</b> |     | <b>155.2922</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.1028        | 11.1249        | 14.5805        | 0.0228        |               | 0.5679        | 0.5679        |                | 0.5225        | 0.5225        | 0.0000        | 2,207.6603        | 2,207.6603        | 0.7140        |     | 2,225.5104        |
| Paving       | 0.5764        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.6792</b> | <b>11.1249</b> | <b>14.5805</b> | <b>0.0228</b> |               | <b>0.5679</b> | <b>0.5679</b> |                | <b>0.5225</b> | <b>0.5225</b> | <b>0.0000</b> | <b>2,207.6603</b> | <b>2,207.6603</b> | <b>0.7140</b> |     | <b>2,225.5104</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.0672        | 0.0442        | 0.5088        | 1.5600e-003        | 0.1677        | 1.3100e-003        | 0.1690        | 0.0445         | 1.2100e-003        | 0.0457        |          | 155.1854        | 155.1854        | 4.2700e-003        |     | 155.2922        |
| <b>Total</b> | <b>0.0672</b> | <b>0.0442</b> | <b>0.5088</b> | <b>1.5600e-003</b> | <b>0.1677</b> | <b>1.3100e-003</b> | <b>0.1690</b> | <b>0.0445</b>  | <b>1.2100e-003</b> | <b>0.0457</b> |          | <b>155.1854</b> | <b>155.1854</b> | <b>4.2700e-003</b> |     | <b>155.2922</b> |

**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 | 42.1843        |               |               |                    |               | 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        |
| <b>Total</b>    | <b>42.3888</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.7434        | 0.4889        | 5.6303        | 0.0172        | 1.8555        | 0.0145        | 1.8700        | 0.4921         | 0.0134        | 0.5055        |          | 1,717.385<br>3         | 1,717.385<br>3         | 0.0473        |     | 1,718.567<br>5         |
| <b>Total</b> | <b>0.7434</b> | <b>0.4889</b> | <b>5.6303</b> | <b>0.0172</b> | <b>1.8555</b> | <b>0.0145</b> | <b>1.8700</b> | <b>0.4921</b>  | <b>0.0134</b> | <b>0.5055</b> |          | <b>1,717.385<br/>3</b> | <b>1,717.385<br/>3</b> | <b>0.0473</b> |     | <b>1,718.567<br/>5</b> |

**Mitigated Construction On-Site**

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 42.1843        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.9700e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        | 0.0000        | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>42.3888</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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       | 0.7434        | 0.4889        | 5.6303        | 0.0172        | 1.8555        | 0.0145        | 1.8700        | 0.4921         | 0.0134        | 0.5055        |          | 1,717.385<br>3         | 1,717.385<br>3         | 0.0473        |     | 1,718.567<br>5         |
| <b>Total</b> | <b>0.7434</b> | <b>0.4889</b> | <b>5.6303</b> | <b>0.0172</b> | <b>1.8555</b> | <b>0.0145</b> | <b>1.8700</b> | <b>0.4921</b>  | <b>0.0134</b> | <b>0.5055</b> |          | <b>1,717.385<br/>3</b> | <b>1,717.385<br/>3</b> | <b>0.0473</b> |     | <b>1,718.567<br/>5</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 1.8157 | 7.6793 | 21.2941 | 0.0772 | 6.6831        | 0.0605       | 6.7436     | 1.7884         | 0.0563        | 1.8447      |          | 7,874.6480 | 7,874.6480 | 0.4071 |     | 7,884.8242 |
| Unmitigated | 1.8157 | 7.6793 | 21.2941 | 0.0772 | 6.6831        | 0.0605       | 6.7436     | 1.7884         | 0.0563        | 1.8447      |          | 7,874.6480 | 7,874.6480 | 0.4071 |     | 7,884.8242 |

4.2 Trip Summary Information

| Land Use                   | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|----------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                            | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| City Park                  | 0.00                    | 0.00            | 0.00            |                  |                  |
| Hotel                      | 921.20                  | 1,317.12        | 1317.12         | 2,468,064        | 2,468,064        |
| Other Asphalt Surfaces     | 0.00                    | 0.00            | 0.00            |                  |                  |
| Other Non-Asphalt Surfaces | 0.00                    | 0.00            | 0.00            |                  |                  |
| Parking Lot                | 0.00                    | 0.00            | 0.00            |                  |                  |
| <b>Total</b>               | <b>921.20</b>           | <b>1,317.12</b> | <b>1,317.12</b> | <b>2,468,064</b> | <b>2,468,064</b> |

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 |
| City Park                  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Hotel                      | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Other Asphalt Surfaces     | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Other Non-Asphalt Surfaces | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**4.4 Fleet Mix**

| Land Use                   | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park                  | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Hotel                      | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| Other Asphalt Surfaces     | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Other Non-Asphalt Surfaces | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Parking Lot                | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures 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   | 0.2500 | 2.2730 | 1.9093 | 0.0136 |               | 0.1728       | 0.1728     |                | 0.1728        | 0.1728      |          | 2,727.5753 | 2,727.5753 | 0.0523 | 0.0500 | 2,743.7839 |
| NaturalGas Unmitigated | 0.2500 | 2.2730 | 1.9093 | 0.0136 |               | 0.1728       | 0.1728     |                | 0.1728        | 0.1728      |          | 2,727.5753 | 2,727.5753 | 0.0523 | 0.0500 | 2,743.7839 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                            | NaturalGas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|----------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                   | kBTU/yr        | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| City Park                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Hotel                      | 23184.4        | 0.2500        | 2.2730        | 1.9093        | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753        | 2,727.5753        | 0.0523        | 0.0500        | 2,743.7839        |
| Other Asphalt Surfaces     | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Other Non-Asphalt Surfaces | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b>               |                | <b>0.2500</b> | <b>2.2730</b> | <b>1.9093</b> | <b>0.0136</b> |               | <b>0.1728</b> | <b>0.1728</b> |                | <b>0.1728</b> | <b>0.1728</b> |          | <b>2,727.5753</b> | <b>2,727.5753</b> | <b>0.0523</b> | <b>0.0500</b> | <b>2,743.7839</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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   |                   |                   |               |               |                   |
| City Park                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Hotel                      | 23.1844        | 0.2500        | 2.2730        | 1.9093        | 0.0136        |               | 0.1728        | 0.1728        |                | 0.1728        | 0.1728        |          | 2,727.5753        | 2,727.5753        | 0.0523        | 0.0500        | 2,743.7839        |
| Other Asphalt Surfaces     | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Other Non-Asphalt Surfaces | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b>               |                | <b>0.2500</b> | <b>2.2730</b> | <b>1.9093</b> | <b>0.0136</b> |               | <b>0.1728</b> | <b>0.1728</b> |                | <b>0.1728</b> | <b>0.1728</b> |          | <b>2,727.5753</b> | <b>2,727.5753</b> | <b>0.0523</b> | <b>0.0500</b> | <b>2,743.7839</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

|             | ROG    | NOx         | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |        |             |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 7.6677 | 7.7000e-004 | 0.0844 | 1.0000e-005 |               | 3.0000e-004  | 3.0000e-004 |                | 3.0000e-004   | 3.0000e-004 |          | 0.1809    | 0.1809    | 4.7000e-004 |     | 0.1928 |
| Unmitigated | 7.6677 | 7.7000e-004 | 0.0844 | 1.0000e-005 |               | 3.0000e-004  | 3.0000e-004 |                | 3.0000e-004   | 3.0000e-004 |          | 0.1809    | 0.1809    | 4.7000e-004 |     | 0.1928 |

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 | 0.4765        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 7.1834        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 7.8200e-003   | 7.7000e-004        | 0.0844        | 1.0000e-005        |               | 3.0000e-004        | 3.0000e-004        |                | 3.0000e-004        | 3.0000e-004        |          | 0.1809        | 0.1809        | 4.7000e-004        |     | 0.1928        |
| <b>Total</b>          | <b>7.6677</b> | <b>7.7000e-004</b> | <b>0.0844</b> | <b>1.0000e-005</b> |               | <b>3.0000e-004</b> | <b>3.0000e-004</b> |                | <b>3.0000e-004</b> | <b>3.0000e-004</b> |          | <b>0.1809</b> | <b>0.1809</b> | <b>4.7000e-004</b> |     | <b>0.1928</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |                    |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.4765        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 7.1834        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 7.8200e-003   | 7.7000e-004        | 0.0844        | 1.0000e-005        |               | 3.0000e-004        | 3.0000e-004        |                | 3.0000e-004        | 3.0000e-004        |          | 0.1809        | 0.1809        | 4.7000e-004        |     | 0.1928        |
| <b>Total</b>          | <b>7.6677</b> | <b>7.7000e-004</b> | <b>0.0844</b> | <b>1.0000e-005</b> |               | <b>3.0000e-004</b> | <b>3.0000e-004</b> |                | <b>3.0000e-004</b> | <b>3.0000e-004</b> |          | <b>0.1809</b> | <b>0.1809</b> | <b>4.7000e-004</b> |     | <b>0.1928</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Winter

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**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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Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**Sand Canyon Resort, Santa Clarita, CA**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                  | Size   | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|--------|-------------|--------------------|------------|
| Other Asphalt Surfaces     | 4.00   | Acre   | 4.00        | 174,240.00         | 0          |
| Other Non-Asphalt Surfaces | 1.90   | Acre   | 1.90        | 82,764.00          | 0          |
| Parking Lot                | 400.00 | Space  | 2.60        | 115,000.00         | 0          |
| City Park                  | 28.70  | Acre   | 28.70       | 1,250,172.00       | 0          |
| Hotel                      | 392.00 | Room   | 8.10        | 352,890.00         | 0          |

**1.2 Other Project Characteristics**

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 33    |
| <b>Climate Zone</b>            | 9                          |                                |       | <b>Operational Year</b>          | 2023  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 532                        | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

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

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

Project Characteristics - 532 MTCO<sub>2</sub>e SCE emission rate for 2020-2029

Land Use - Detention basin = 1.9 acres

Hotel complex (392 rooms includes 13,000 sf for tennis courts and 3,000 sq ft for restrooms

Landscaping (as City Park): 28.7 acres

Parking lot (400 spaces)

Other asphalt surfaces (internal roadway): 4 acres

Construction Phase - .Conceptual schedule with start in January 2021 and duration of at least 18 months

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Larger equipment used

Off-road Equipment -

Off-road Equipment - Larger equipment used

Demolition - Demolition of existing concrete pathways (65,000 sq-ft concrete)and restroom (1200 sq-ft)

Grading - Assumption based on client input

Architectural Coating - Use of architectural coatings of 50 g/l in accordance with SCAQMD Rule 1113

Vehicle Trips - Resort Hotel Land Use Trip Generation Rate as derived in the Stantec Trip

Generation Memorandum 11/8/2019

Area Coating - USE of coating with hc content of 50 g/l as per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Watering every 2 hours as per the WRAP Fugitive Dust Handboo

Water Mitigation - 20% reduction of indoor/outdoor water usage

Waste Mitigation - 75% solid waste diversion as set forth in AB341

Fleet Mix - Default fleet mix

| Table Name              | Column Name                     | Default Value | New Value |
|-------------------------|---------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior      | 100.00        | 50.00     |
| tblArchitecturalCoating | EF_Nonresidential_Interior      | 100.00        | 50.00     |
| tblArchitecturalCoating | EF_Parking                      | 100.00        | 50.00     |
| tblAreaCoating          | Area_EF_Nonresidential_Exterior | 100           | 50        |
| tblAreaCoating          | Area_EF_Nonresidential_Interior | 100           | 50        |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|                        |                                      |        |        |
|------------------------|--------------------------------------|--------|--------|
| tblConstDustMitigation | WaterExposedAreaPM10PercentReduction | 61     | 74     |
| tblConstDustMitigation | WaterExposedAreaPM25PercentReduction | 61     | 74     |
| tblConstDustMitigation | WaterUnpavedRoadMoistureContent      | 0      | 12     |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed         | 0      | 15     |
| tblConstructionPhase   | NumDays                              | 55.00  | 40.00  |
| tblConstructionPhase   | NumDays                              | 740.00 | 300.00 |
| tblConstructionPhase   | NumDays                              | 50.00  | 10.00  |
| tblConstructionPhase   | NumDays                              | 75.00  | 50.00  |
| tblConstructionPhase   | NumDays                              | 55.00  | 30.00  |
| tblConstructionPhase   | NumDays                              | 30.00  | 25.00  |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | HHD                                  | 0.03   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDA                                  | 0.55   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT1                                 | 0.04   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LDT2                                 | 0.21   | 0.00   |
| tblFleetMix            | LHD1                                 | 0.02   | 0.00   |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|             |      |             |      |
|-------------|------|-------------|------|
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD1 | 0.02        | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | LHD2 | 6.2270e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MCY  | 5.1840e-003 | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MDV  | 0.12        | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MH   | 8.6200e-004 | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | MHD  | 0.02        | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |
| tblFleetMix | OBUS | 2.5460e-003 | 0.00 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|                           |                            |             |                  |
|---------------------------|----------------------------|-------------|------------------|
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | SBUS                       | 6.9200e-004 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblFleetMix               | UBUS                       | 2.1330e-003 | 0.00             |
| tblGrading                | AcresOfGrading             | 175.00      | 187.50           |
| tblGrading                | AcresOfGrading             | 50.00       | 0.00             |
| tblGrading                | MaterialImported           | 0.00        | 10,000.00        |
| tblLandUse                | LandUseSquareFeet          | 160,000.00  | 115,000.00       |
| tblLandUse                | LandUseSquareFeet          | 569,184.00  | 352,890.00       |
| tblLandUse                | LotAcreage                 | 3.60        | 2.60             |
| tblLandUse                | LotAcreage                 | 13.07       | 8.10             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 2.00        | 0.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 4.00        | 0.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 0.00        | 4.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 0.00        | 2.00             |
| tblOffRoadEquipment       | PhaseName                  |             | Site Preparation |
| tblOffRoadEquipment       | PhaseName                  |             | Grading          |
| tblProjectCharacteristics | CO2IntensityFactor         | 702.44      | 532              |
| tblVehicleTrips           | ST_TR                      | 22.75       | 0.00             |
| tblVehicleTrips           | ST_TR                      | 8.19        | 3.36             |
| tblVehicleTrips           | SU_TR                      | 16.74       | 0.00             |
| tblVehicleTrips           | SU_TR                      | 5.95        | 3.36             |
| tblVehicleTrips           | WD_TR                      | 1.89        | 0.00             |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|                 |       |      |      |
|-----------------|-------|------|------|
| tblVehicleTrips | WD_TR | 8.17 | 2.35 |
|-----------------|-------|------|------|

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

|                | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year           | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| 2021           | 0.7818        | 7.0960        | 6.1930        | 0.0208        | 1.4899        | 0.1948        | 1.6847        | 0.4891         | 0.1812        | 0.6703        | 0.0000        | 1,918.3737        | 1,918.3737        | 0.1927        | 0.0000        | 1,923.1919        |
| 2022           | 1.2622        | 3.2374        | 3.7214        | 0.0130        | 0.7349        | 0.0691        | 0.8040        | 0.1981         | 0.0649        | 0.2630        | 0.0000        | 1,203.5401        | 1,203.5401        | 0.0889        | 0.0000        | 1,205.7616        |
| <b>Maximum</b> | <b>1.2622</b> | <b>7.0960</b> | <b>6.1930</b> | <b>0.0208</b> | <b>1.4899</b> | <b>0.1948</b> | <b>1.6847</b> | <b>0.4891</b>  | <b>0.1812</b> | <b>0.6703</b> | <b>0.0000</b> | <b>1,918.3737</b> | <b>1,918.3737</b> | <b>0.1927</b> | <b>0.0000</b> | <b>1,923.1919</b> |

#### Mitigated Construction

|                | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year           | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| 2021           | 0.7818        | 7.0960        | 6.1930        | 0.0208        | 1.1239        | 0.1948        | 1.3187        | 0.3259         | 0.1812        | 0.5071        | 0.0000        | 1,918.3732        | 1,918.3732        | 0.1927        | 0.0000        | 1,923.1914        |
| 2022           | 1.2622        | 3.2374        | 3.7214        | 0.0130        | 0.7349        | 0.0691        | 0.8040        | 0.1981         | 0.0649        | 0.2630        | 0.0000        | 1,203.5398        | 1,203.5398        | 0.0889        | 0.0000        | 1,205.7613        |
| <b>Maximum</b> | <b>1.2622</b> | <b>7.0960</b> | <b>6.1930</b> | <b>0.0208</b> | <b>1.1239</b> | <b>0.1948</b> | <b>1.3187</b> | <b>0.3259</b>  | <b>0.1812</b> | <b>0.5071</b> | <b>0.0000</b> | <b>1,918.3732</b> | <b>1,918.3732</b> | <b>0.1927</b> | <b>0.0000</b> | <b>1,923.1914</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 16.45         | 0.00         | 14.71      | 23.74          | 0.00          | 17.48       | 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       | 1-4-2021   | 4-3-2021  | 2.0512                                       | 2.0512                                     |
| 2       | 4-4-2021   | 7-3-2021  | 1.9814                                       | 1.9814                                     |
| 3       | 7-4-2021   | 10-3-2021 | 1.8991                                       | 1.8991                                     |
| 4       | 10-4-2021  | 1-3-2022  | 1.9152                                       | 1.9152                                     |
| 5       | 1-4-2022   | 4-3-2022  | 1.7443                                       | 1.7443                                     |
| 6       | 4-4-2022   | 7-3-2022  | 1.6142                                       | 1.6142                                     |
| 7       | 7-4-2022   | 9-30-2022 | 1.0502                                       | 1.0502                                     |
|         |            | Highest   | 2.0512                                       | 2.0512                                     |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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         | 1.3989        | 1.0000e-004   | 0.0106        | 0.0000        |               | 4.0000e-005   | 4.0000e-005   |                | 4.0000e-005   | 4.0000e-005   | 0.0000         | 0.0205            | 0.0205            | 5.0000e-005   | 0.0000        | 0.0219            |
| Energy       | 0.0456        | 0.4148        | 0.3485        | 2.4900e-003   |               | 0.0315        | 0.0315        |                | 0.0315        | 0.0315        | 0.0000         | 1,106.7781        | 1,106.7781        | 0.0444        | 0.0157        | 1,112.5566        |
| Mobile       | 0.2524        | 1.1157        | 3.0794        | 0.0112        | 0.9367        | 8.6100e-003   | 0.9453        | 0.2511         | 8.0100e-003   | 0.2591        | 0.0000         | 1,036.2280        | 1,036.2280        | 0.0525        | 0.0000        | 1,037.5396        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 44.0673        | 0.0000            | 44.0673           | 2.6043        | 0.0000        | 109.1749          |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 3.1547         | 125.8836          | 129.0383          | 0.3309        | 9.0700e-003   | 140.0133          |
| <b>Total</b> | <b>1.6969</b> | <b>1.5306</b> | <b>3.4384</b> | <b>0.0137</b> | <b>0.9367</b> | <b>0.0402</b> | <b>0.9769</b> | <b>0.2511</b>  | <b>0.0396</b> | <b>0.2907</b> | <b>47.2220</b> | <b>2,268.9103</b> | <b>2,316.1323</b> | <b>3.0321</b> | <b>0.0247</b> | <b>2,399.3063</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 1.3989        | 1.0000e-004   | 0.0106        | 0.0000        |               | 4.0000e-005   | 4.0000e-005   |                | 4.0000e-005   | 4.0000e-005   | 0.0000         | 0.0205            | 0.0205            | 5.0000e-005   | 0.0000        | 0.0219            |
| Energy       | 0.0456        | 0.4148        | 0.3485        | 2.4900e-003   |               | 0.0315        | 0.0315        |                | 0.0315        | 0.0315        | 0.0000         | 1,106.7781        | 1,106.7781        | 0.0444        | 0.0157        | 1,112.5566        |
| Mobile       | 0.2524        | 1.1157        | 3.0794        | 0.0112        | 0.9367        | 8.6100e-003   | 0.9453        | 0.2511         | 8.0100e-003   | 0.2591        | 0.0000         | 1,036.2280        | 1,036.2280        | 0.0525        | 0.0000        | 1,037.5396        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 11.0168        | 0.0000            | 11.0168           | 0.6511        | 0.0000        | 27.2937           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 2.5238         | 100.7069          | 103.2306          | 0.2647        | 7.2600e-003   | 112.0107          |
| <b>Total</b> | <b>1.6969</b> | <b>1.5306</b> | <b>3.4384</b> | <b>0.0137</b> | <b>0.9367</b> | <b>0.0402</b> | <b>0.9769</b> | <b>0.2511</b>  | <b>0.0396</b> | <b>0.2907</b> | <b>13.5406</b> | <b>2,243.7335</b> | <b>2,257.2741</b> | <b>1.0127</b> | <b>0.0229</b> | <b>2,289.4224</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2     | NBio- CO2   | Total CO2   | CH4          | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>71.33</b> | <b>1.11</b> | <b>2.54</b> | <b>66.60</b> | <b>7.32</b> | <b>4.58</b> |

**3.0 Construction Detail**

**Construction Phase**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/4/2021   | 1/15/2021 | 5             | 10       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/16/2021  | 2/19/2021 | 5             | 25       |                   |
| 3            | Grading               | Grading               | 2/20/2021  | 4/30/2021 | 5             | 50       |                   |
| 4            | Building Construction | Building Construction | 5/1/2021   | 6/24/2022 | 5             | 300      |                   |
| 5            | Paving                | Paving                | 6/25/2022  | 8/5/2022  | 5             | 30       |                   |
| 6            | Architectural Coating | Architectural Coating | 8/6/2022   | 9/30/2022 | 5             | 40       |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 187.5**

**Acres of Paving: 8.5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 529,335; Non-Residential Outdoor: 176,445; Striped Parking Area: 22,320 (Architectural Coating – sqft)**

**OffRoad Equipment**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Excavators                | 3      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 2      | 8.00        | 247         | 0.40        |
| Site Preparation      | Crawler Tractors          | 4      | 8.00        | 212         | 0.43        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Crawler Tractors          | 2      | 8.00        | 212         | 0.43        |
| 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 | 0      | 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**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 6                       | 15.00              | 0.00               | 168.00              | 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               | 1,250.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 830.00             | 324.00             | 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                       | 166.00             | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Water Exposed Area
- Water Unpaved Roads
- 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 |               |               |               |                    | 0.0182        | 0.0000             | 0.0182        | 2.7500e-003        | 0.0000             | 2.7500e-003        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0158        | 0.1572        | 0.1078        | 1.9000e-004        | 7.7600e-003   | 7.7600e-003        |               | 7.2100e-003        | 7.2100e-003        |                    | 0.0000        | 17.0004        | 17.0004        | 4.7800e-003        | 0.0000        | 17.1200        |
| <b>Total</b>  | <b>0.0158</b> | <b>0.1572</b> | <b>0.1078</b> | <b>1.9000e-004</b> | <b>0.0182</b> | <b>7.7600e-003</b> | <b>0.0260</b> | <b>2.7500e-003</b> | <b>7.2100e-003</b> | <b>9.9600e-003</b> | <b>0.0000</b> | <b>17.0004</b> | <b>17.0004</b> | <b>4.7800e-003</b> | <b>0.0000</b> | <b>17.1200</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, 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      | 7.1000e-004        | 0.0233        | 5.4200e-003        | 7.0000e-005        | 1.4400e-003        | 7.0000e-005        | 1.5100e-003        | 4.0000e-004        | 7.0000e-005        | 4.6000e-004        | 0.0000        | 6.4033        | 6.4033        | 4.4000e-004        | 0.0000        | 6.4144        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.2000e-004        | 2.5000e-004   | 2.8400e-003        | 1.0000e-005        | 8.2000e-004        | 1.0000e-005        | 8.3000e-004        | 2.2000e-004        | 1.0000e-005        | 2.2000e-004        | 0.0000        | 0.7417        | 0.7417        | 2.0000e-005        | 0.0000        | 0.7422        |
| <b>Total</b> | <b>1.0300e-003</b> | <b>0.0235</b> | <b>8.2600e-003</b> | <b>8.0000e-005</b> | <b>2.2600e-003</b> | <b>8.0000e-005</b> | <b>2.3400e-003</b> | <b>6.2000e-004</b> | <b>8.0000e-005</b> | <b>6.8000e-004</b> | <b>0.0000</b> | <b>7.1450</b> | <b>7.1450</b> | <b>4.6000e-004</b> | <b>0.0000</b> | <b>7.1566</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 4.7300e-003        | 0.0000             | 4.7300e-003   | 7.2000e-004        | 0.0000             | 7.2000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0158        | 0.1572        | 0.1078        | 1.9000e-004        |                    | 7.7600e-003        | 7.7600e-003   |                    | 7.2100e-003        | 7.2100e-003        | 0.0000        | 17.0004        | 17.0004        | 4.7800e-003        | 0.0000        | 17.1200        |
| <b>Total</b>  | <b>0.0158</b> | <b>0.1572</b> | <b>0.1078</b> | <b>1.9000e-004</b> | <b>4.7300e-003</b> | <b>7.7600e-003</b> | <b>0.0125</b> | <b>7.2000e-004</b> | <b>7.2100e-003</b> | <b>7.9300e-003</b> | <b>0.0000</b> | <b>17.0004</b> | <b>17.0004</b> | <b>4.7800e-003</b> | <b>0.0000</b> | <b>17.1200</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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      | 7.1000e-004        | 0.0233        | 5.4200e-003        | 7.0000e-005        | 1.4400e-003        | 7.0000e-005        | 1.5100e-003        | 4.0000e-004        | 7.0000e-005        | 4.6000e-004        | 0.0000        | 6.4033        | 6.4033        | 4.4000e-004        | 0.0000        | 6.4144        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.2000e-004        | 2.5000e-004   | 2.8400e-003        | 1.0000e-005        | 8.2000e-004        | 1.0000e-005        | 8.3000e-004        | 2.2000e-004        | 1.0000e-005        | 2.2000e-004        | 0.0000        | 0.7417        | 0.7417        | 2.0000e-005        | 0.0000        | 0.7422        |
| <b>Total</b> | <b>1.0300e-003</b> | <b>0.0235</b> | <b>8.2600e-003</b> | <b>8.0000e-005</b> | <b>2.2600e-003</b> | <b>8.0000e-005</b> | <b>2.3400e-003</b> | <b>6.2000e-004</b> | <b>8.0000e-005</b> | <b>6.8000e-004</b> | <b>0.0000</b> | <b>7.1450</b> | <b>7.1450</b> | <b>4.6000e-004</b> | <b>0.0000</b> | <b>7.1566</b> |

**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 |               |               |               |                    | 0.2258        | 0.0000        | 0.2258        | 0.1241         | 0.0000        | 0.1241        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0668        | 0.7598        | 0.2732        | 7.1000e-004        |               | 0.0331        | 0.0331        |                | 0.0304        | 0.0304        | 0.0000        | 62.6355        | 62.6355        | 0.0203        | 0.0000        | 63.1419        |
| <b>Total</b>  | <b>0.0668</b> | <b>0.7598</b> | <b>0.2732</b> | <b>7.1000e-004</b> | <b>0.2258</b> | <b>0.0331</b> | <b>0.2589</b> | <b>0.1241</b>  | <b>0.0304</b> | <b>0.1546</b> | <b>0.0000</b> | <b>62.6355</b> | <b>62.6355</b> | <b>0.0203</b> | <b>0.0000</b> | <b>63.1419</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 9.7000e-004        | 7.5000e-004        | 8.5100e-003        | 2.0000e-005        | 2.4700e-003        | 2.0000e-005        | 2.4900e-003        | 6.5000e-004        | 2.0000e-005        | 6.7000e-004        | 0.0000        | 2.2251        | 2.2251        | 7.0000e-005        | 0.0000        | 2.2267        |
| <b>Total</b> | <b>9.7000e-004</b> | <b>7.5000e-004</b> | <b>8.5100e-003</b> | <b>2.0000e-005</b> | <b>2.4700e-003</b> | <b>2.0000e-005</b> | <b>2.4900e-003</b> | <b>6.5000e-004</b> | <b>2.0000e-005</b> | <b>6.7000e-004</b> | <b>0.0000</b> | <b>2.2251</b> | <b>2.2251</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.2267</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0587        | 0.0000        | 0.0587        | 0.0323         | 0.0000        | 0.0323        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0668        | 0.7598        | 0.2732        | 7.1000e-004        |               | 0.0331        | 0.0331        |                | 0.0304        | 0.0304        | 0.0000        | 62.6354        | 62.6354        | 0.0203        | 0.0000        | 63.1419        |
| <b>Total</b>  | <b>0.0668</b> | <b>0.7598</b> | <b>0.2732</b> | <b>7.1000e-004</b> | <b>0.0587</b> | <b>0.0331</b> | <b>0.0918</b> | <b>0.0323</b>  | <b>0.0304</b> | <b>0.0627</b> | <b>0.0000</b> | <b>62.6354</b> | <b>62.6354</b> | <b>0.0203</b> | <b>0.0000</b> | <b>63.1419</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 9.7000e-004        | 7.5000e-004        | 8.5100e-003        | 2.0000e-005        | 2.4700e-003        | 2.0000e-005        | 2.4900e-003        | 6.5000e-004        | 2.0000e-005        | 6.7000e-004        | 0.0000        | 2.2251        | 2.2251        | 7.0000e-005        | 0.0000        | 2.2267        |
| <b>Total</b> | <b>9.7000e-004</b> | <b>7.5000e-004</b> | <b>8.5100e-003</b> | <b>2.0000e-005</b> | <b>2.4700e-003</b> | <b>2.0000e-005</b> | <b>2.4900e-003</b> | <b>6.5000e-004</b> | <b>2.0000e-005</b> | <b>6.7000e-004</b> | <b>0.0000</b> | <b>2.2251</b> | <b>2.2251</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>2.2267</b> |

**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 |               |               |               |                    | 0.2505        | 0.0000        | 0.2505        | 0.0936         | 0.0000        | 0.0936        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.1230        | 1.4136        | 0.7807        | 1.7900e-003        |               | 0.0572        | 0.0572        |                | 0.0526        | 0.0526        | 0.0000        | 157.0783        | 157.0783        | 0.0508        | 0.0000        | 158.3484        |
| <b>Total</b>  | <b>0.1230</b> | <b>1.4136</b> | <b>0.7807</b> | <b>1.7900e-003</b> | <b>0.2505</b> | <b>0.0572</b> | <b>0.3077</b> | <b>0.0936</b>  | <b>0.0526</b> | <b>0.1462</b> | <b>0.0000</b> | <b>157.0783</b> | <b>157.0783</b> | <b>0.0508</b> | <b>0.0000</b> | <b>158.3484</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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      | 5.2600e-003        | 0.1730        | 0.0403        | 4.8000e-004        | 0.0107        | 5.2000e-004        | 0.0113        | 2.9500e-003        | 5.0000e-004        | 3.4500e-003        | 0.0000        | 47.6435        | 47.6435        | 3.3100e-003        | 0.0000        | 47.7262        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 2.1500e-003        | 1.6700e-003   | 0.0189        | 5.0000e-005        | 5.4800e-003   | 5.0000e-005        | 5.5200e-003   | 1.4600e-003        | 4.0000e-005        | 1.5000e-003        | 0.0000        | 4.9446         | 4.9446         | 1.5000e-004        | 0.0000        | 4.9482         |
| <b>Total</b> | <b>7.4100e-003</b> | <b>0.1747</b> | <b>0.0593</b> | <b>5.3000e-004</b> | <b>0.0162</b> | <b>5.7000e-004</b> | <b>0.0168</b> | <b>4.4100e-003</b> | <b>5.4000e-004</b> | <b>4.9500e-003</b> | <b>0.0000</b> | <b>52.5881</b> | <b>52.5881</b> | <b>3.4600e-003</b> | <b>0.0000</b> | <b>52.6744</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Fugitive Dust |               |               |               |                    | 0.0651        | 0.0000        | 0.0651        | 0.0243         | 0.0000        | 0.0243        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.1230        | 1.4136        | 0.7807        | 1.7900e-003        |               | 0.0572        | 0.0572        |                | 0.0526        | 0.0526        | 0.0000        | 157.0781        | 157.0781        | 0.0508        | 0.0000        | 158.3482        |
| <b>Total</b>  | <b>0.1230</b> | <b>1.4136</b> | <b>0.7807</b> | <b>1.7900e-003</b> | <b>0.0651</b> | <b>0.0572</b> | <b>0.1223</b> | <b>0.0243</b>  | <b>0.0526</b> | <b>0.0769</b> | <b>0.0000</b> | <b>157.0781</b> | <b>157.0781</b> | <b>0.0508</b> | <b>0.0000</b> | <b>158.3482</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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      | 5.2600e-003        | 0.1730        | 0.0403        | 4.8000e-004        | 0.0107        | 5.2000e-004        | 0.0113        | 2.9500e-003        | 5.0000e-004        | 3.4500e-003        | 0.0000        | 47.6435        | 47.6435        | 3.3100e-003        | 0.0000        | 47.7262        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 2.1500e-003        | 1.6700e-003   | 0.0189        | 5.0000e-005        | 5.4800e-003   | 5.0000e-005        | 5.5200e-003   | 1.4600e-003        | 4.0000e-005        | 1.5000e-003        | 0.0000        | 4.9446         | 4.9446         | 1.5000e-004        | 0.0000        | 4.9482         |
| <b>Total</b> | <b>7.4100e-003</b> | <b>0.1747</b> | <b>0.0593</b> | <b>5.3000e-004</b> | <b>0.0162</b> | <b>5.7000e-004</b> | <b>0.0168</b> | <b>4.4100e-003</b> | <b>5.4000e-004</b> | <b>4.9500e-003</b> | <b>0.0000</b> | <b>52.5881</b> | <b>52.5881</b> | <b>3.4600e-003</b> | <b>0.0000</b> | <b>52.6744</b> |

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1663        | 1.5253        | 1.4503        | 2.3600e-003        |               | 0.0839        | 0.0839        |                | 0.0789        | 0.0789        | 0.0000        | 202.6826        | 202.6826        | 0.0489        | 0.0000        | 203.9051        |
| <b>Total</b> | <b>0.1663</b> | <b>1.5253</b> | <b>1.4503</b> | <b>2.3600e-003</b> |               | <b>0.0839</b> | <b>0.0839</b> |                | <b>0.0789</b> | <b>0.0789</b> | <b>0.0000</b> | <b>202.6826</b> | <b>202.6826</b> | <b>0.0489</b> | <b>0.0000</b> | <b>203.9051</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 0.0880        | 2.7978        | 0.7586        | 7.2100e-003   | 0.1786        | 5.7000e-003   | 0.1843        | 0.0515         | 5.4600e-003   | 0.0570        | 0.0000        | 698.8178          | 698.8178          | 0.0429        | 0.0000        | 699.8894          |
| Worker       | 0.3125        | 0.2433        | 2.7464        | 7.9500e-003   | 0.7958        | 6.5600e-003   | 0.8024        | 0.2114         | 6.0400e-003   | 0.2174        | 0.0000        | 718.2010          | 718.2010          | 0.0211        | 0.0000        | 718.7294          |
| <b>Total</b> | <b>0.4005</b> | <b>3.0411</b> | <b>3.5049</b> | <b>0.0152</b> | <b>0.9744</b> | <b>0.0123</b> | <b>0.9867</b> | <b>0.2629</b>  | <b>0.0115</b> | <b>0.2744</b> | <b>0.0000</b> | <b>1,417.0188</b> | <b>1,417.0188</b> | <b>0.0640</b> | <b>0.0000</b> | <b>1,418.6188</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1663        | 1.5253        | 1.4503        | 2.3600e-003        |               | 0.0839        | 0.0839        |                | 0.0789        | 0.0789        | 0.0000        | 202.6824        | 202.6824        | 0.0489        | 0.0000        | 203.9048        |
| <b>Total</b> | <b>0.1663</b> | <b>1.5253</b> | <b>1.4503</b> | <b>2.3600e-003</b> |               | <b>0.0839</b> | <b>0.0839</b> |                | <b>0.0789</b> | <b>0.0789</b> | <b>0.0000</b> | <b>202.6824</b> | <b>202.6824</b> | <b>0.0489</b> | <b>0.0000</b> | <b>203.9048</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 0.0880        | 2.7978        | 0.7586        | 7.2100e-003   | 0.1786        | 5.7000e-003   | 0.1843        | 0.0515         | 5.4600e-003   | 0.0570        | 0.0000        | 698.8178          | 698.8178          | 0.0429        | 0.0000        | 699.8894          |
| Worker       | 0.3125        | 0.2433        | 2.7464        | 7.9500e-003   | 0.7958        | 6.5600e-003   | 0.8024        | 0.2114         | 6.0400e-003   | 0.2174        | 0.0000        | 718.2010          | 718.2010          | 0.0211        | 0.0000        | 718.7294          |
| <b>Total</b> | <b>0.4005</b> | <b>3.0411</b> | <b>3.5049</b> | <b>0.0152</b> | <b>0.9744</b> | <b>0.0123</b> | <b>0.9867</b> | <b>0.2629</b>  | <b>0.0115</b> | <b>0.2744</b> | <b>0.0000</b> | <b>1,417.0188</b> | <b>1,417.0188</b> | <b>0.0640</b> | <b>0.0000</b> | <b>1,418.6188</b> |

**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     | 0.1066        | 0.9760        | 1.0227        | 1.6800e-003        |               | 0.0506        | 0.0506        |                | 0.0476        | 0.0476        | 0.0000        | 144.8283        | 144.8283        | 0.0347        | 0.0000        | 145.6957        |
| <b>Total</b> | <b>0.1066</b> | <b>0.9760</b> | <b>1.0227</b> | <b>1.6800e-003</b> |               | <b>0.0506</b> | <b>0.0506</b> |                | <b>0.0476</b> | <b>0.0476</b> | <b>0.0000</b> | <b>144.8283</b> | <b>144.8283</b> | <b>0.0347</b> | <b>0.0000</b> | <b>145.6957</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 0.0590        | 1.8987        | 0.5127        | 5.1000e-003   | 0.1276        | 3.5600e-003        | 0.1311        | 0.0368         | 3.4100e-003        | 0.0402        | 0.0000        | 494.7713        | 494.7713        | 0.0296        | 0.0000        | 495.5102        |
| Worker       | 0.2093        | 0.1570        | 1.8075        | 5.4800e-003   | 0.5685        | 4.5400e-003        | 0.5730        | 0.1510         | 4.1800e-003        | 0.1552        | 0.0000        | 494.9678        | 494.9678        | 0.0136        | 0.0000        | 495.3086        |
| <b>Total</b> | <b>0.2683</b> | <b>2.0556</b> | <b>2.3201</b> | <b>0.0106</b> | <b>0.6960</b> | <b>8.1000e-003</b> | <b>0.7041</b> | <b>0.1878</b>  | <b>7.5900e-003</b> | <b>0.1954</b> | <b>0.0000</b> | <b>989.7391</b> | <b>989.7391</b> | <b>0.0432</b> | <b>0.0000</b> | <b>990.8187</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1066        | 0.9760        | 1.0227        | 1.6800e-003        |               | 0.0506        | 0.0506        |                | 0.0476        | 0.0476        | 0.0000        | 144.8281        | 144.8281        | 0.0347        | 0.0000        | 145.6955        |
| <b>Total</b> | <b>0.1066</b> | <b>0.9760</b> | <b>1.0227</b> | <b>1.6800e-003</b> |               | <b>0.0506</b> | <b>0.0506</b> |                | <b>0.0476</b> | <b>0.0476</b> | <b>0.0000</b> | <b>144.8281</b> | <b>144.8281</b> | <b>0.0347</b> | <b>0.0000</b> | <b>145.6955</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 0.0590        | 1.8987        | 0.5127        | 5.1000e-003   | 0.1276        | 3.5600e-003        | 0.1311        | 0.0368         | 3.4100e-003        | 0.0402        | 0.0000        | 494.7713        | 494.7713        | 0.0296        | 0.0000        | 495.5102        |
| Worker       | 0.2093        | 0.1570        | 1.8075        | 5.4800e-003   | 0.5685        | 4.5400e-003        | 0.5730        | 0.1510         | 4.1800e-003        | 0.1552        | 0.0000        | 494.9678        | 494.9678        | 0.0136        | 0.0000        | 495.3086        |
| <b>Total</b> | <b>0.2683</b> | <b>2.0556</b> | <b>2.3201</b> | <b>0.0106</b> | <b>0.6960</b> | <b>8.1000e-003</b> | <b>0.7041</b> | <b>0.1878</b>  | <b>7.5900e-003</b> | <b>0.1954</b> | <b>0.0000</b> | <b>989.7391</b> | <b>989.7391</b> | <b>0.0432</b> | <b>0.0000</b> | <b>990.8187</b> |

**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     | 0.0165        | 0.1669        | 0.2187        | 3.4000e-004        |               | 8.5200e-003        | 8.5200e-003        |                | 7.8400e-003        | 7.8400e-003        | 0.0000        | 30.0413        | 30.0413        | 9.7200e-003        | 0.0000        | 30.2842        |
| Paving       | 8.6500e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0252</b> | <b>0.1669</b> | <b>0.2187</b> | <b>3.4000e-004</b> |               | <b>8.5200e-003</b> | <b>8.5200e-003</b> |                | <b>7.8400e-003</b> | <b>7.8400e-003</b> | <b>0.0000</b> | <b>30.0413</b> | <b>30.0413</b> | <b>9.7200e-003</b> | <b>0.0000</b> | <b>30.2842</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 9.1000e-004        | 6.8000e-004        | 7.8400e-003        | 2.0000e-005        | 2.4700e-003        | 2.0000e-005        | 2.4900e-003        | 6.5000e-004        | 2.0000e-005        | 6.7000e-004        | 0.0000        | 2.1469        | 2.1469        | 6.0000e-005        | 0.0000        | 2.1483        |
| <b>Total</b> | <b>9.1000e-004</b> | <b>6.8000e-004</b> | <b>7.8400e-003</b> | <b>2.0000e-005</b> | <b>2.4700e-003</b> | <b>2.0000e-005</b> | <b>2.4900e-003</b> | <b>6.5000e-004</b> | <b>2.0000e-005</b> | <b>6.7000e-004</b> | <b>0.0000</b> | <b>2.1469</b> | <b>2.1469</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>2.1483</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0165        | 0.1669        | 0.2187        | 3.4000e-004        |               | 8.5200e-003        | 8.5200e-003        |                | 7.8400e-003        | 7.8400e-003        | 0.0000        | 30.0413        | 30.0413        | 9.7200e-003        | 0.0000        | 30.2842        |
| Paving       | 8.6500e-003   |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| <b>Total</b> | <b>0.0252</b> | <b>0.1669</b> | <b>0.2187</b> | <b>3.4000e-004</b> |               | <b>8.5200e-003</b> | <b>8.5200e-003</b> |                | <b>7.8400e-003</b> | <b>7.8400e-003</b> | <b>0.0000</b> | <b>30.0413</b> | <b>30.0413</b> | <b>9.7200e-003</b> | <b>0.0000</b> | <b>30.2842</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 9.1000e-004        | 6.8000e-004        | 7.8400e-003        | 2.0000e-005        | 2.4700e-003        | 2.0000e-005        | 2.4900e-003        | 6.5000e-004        | 2.0000e-005        | 6.7000e-004        | 0.0000        | 2.1469        | 2.1469        | 6.0000e-005        | 0.0000        | 2.1483        |
| <b>Total</b> | <b>9.1000e-004</b> | <b>6.8000e-004</b> | <b>7.8400e-003</b> | <b>2.0000e-005</b> | <b>2.4700e-003</b> | <b>2.0000e-005</b> | <b>2.4900e-003</b> | <b>6.5000e-004</b> | <b>2.0000e-005</b> | <b>6.7000e-004</b> | <b>0.0000</b> | <b>2.1469</b> | <b>2.1469</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>2.1483</b> |

**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 | 0.8437        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 4.0900e-003   | 0.0282        | 0.0363        | 6.0000e-005        |               | 1.6300e-003        | 1.6300e-003        |                | 1.6300e-003        | 1.6300e-003        | 0.0000        | 5.1065        | 5.1065        | 3.3000e-004        | 0.0000        | 5.1148        |
| <b>Total</b>    | <b>0.8478</b> | <b>0.0282</b> | <b>0.0363</b> | <b>6.0000e-005</b> |               | <b>1.6300e-003</b> | <b>1.6300e-003</b> |                | <b>1.6300e-003</b> | <b>1.6300e-003</b> | <b>0.0000</b> | <b>5.1065</b> | <b>5.1065</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>5.1148</b> |



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 0.0134        | 0.0101        | 0.1157        | 3.5000e-004        | 0.0364        | 2.9000e-004        | 0.0367        | 9.6600e-003        | 2.7000e-004        | 9.9300e-003        | 0.0000        | 31.6779        | 31.6779        | 8.7000e-004        | 0.0000        | 31.6998        |
| <b>Total</b> | <b>0.0134</b> | <b>0.0101</b> | <b>0.1157</b> | <b>3.5000e-004</b> | <b>0.0364</b> | <b>2.9000e-004</b> | <b>0.0367</b> | <b>9.6600e-003</b> | <b>2.7000e-004</b> | <b>9.9300e-003</b> | <b>0.0000</b> | <b>31.6779</b> | <b>31.6779</b> | <b>8.7000e-004</b> | <b>0.0000</b> | <b>31.6998</b> |

**Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.8437        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 4.0900e-003   | 0.0282        | 0.0363        | 6.0000e-005        |               | 1.6300e-003        | 1.6300e-003        |                | 1.6300e-003        | 1.6300e-003        | 0.0000        | 5.1065        | 5.1065        | 3.3000e-004        | 0.0000        | 5.1148        |
| <b>Total</b>    | <b>0.8478</b> | <b>0.0282</b> | <b>0.0363</b> | <b>6.0000e-005</b> |               | <b>1.6300e-003</b> | <b>1.6300e-003</b> |                | <b>1.6300e-003</b> | <b>1.6300e-003</b> | <b>0.0000</b> | <b>5.1065</b> | <b>5.1065</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>5.1148</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**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       | 0.0134        | 0.0101        | 0.1157        | 3.5000e-004        | 0.0364        | 2.9000e-004        | 0.0367        | 9.6600e-003        | 2.7000e-004        | 9.9300e-003        | 0.0000        | 31.6779        | 31.6779        | 8.7000e-004        | 0.0000        | 31.6998        |
| <b>Total</b> | <b>0.0134</b> | <b>0.0101</b> | <b>0.1157</b> | <b>3.5000e-004</b> | <b>0.0364</b> | <b>2.9000e-004</b> | <b>0.0367</b> | <b>9.6600e-003</b> | <b>2.7000e-004</b> | <b>9.9300e-003</b> | <b>0.0000</b> | <b>31.6779</b> | <b>31.6779</b> | <b>8.7000e-004</b> | <b>0.0000</b> | <b>31.6998</b> |

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.2524  | 1.1157 | 3.0794 | 0.0112 | 0.9367        | 8.6100e-003  | 0.9453     | 0.2511         | 8.0100e-003   | 0.2591      | 0.0000   | 1,036.2280 | 1,036.2280 | 0.0525 | 0.0000 | 1,037.5396 |
| Unmitigated | 0.2524  | 1.1157 | 3.0794 | 0.0112 | 0.9367        | 8.6100e-003  | 0.9453     | 0.2511         | 8.0100e-003   | 0.2591      | 0.0000   | 1,036.2280 | 1,036.2280 | 0.0525 | 0.0000 | 1,037.5396 |

4.2 Trip Summary Information

| Land Use                   | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|----------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                            | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| City Park                  | 0.00                    | 0.00            | 0.00            |                  |                  |
| Hotel                      | 921.20                  | 1,317.12        | 1317.12         | 2,468,064        | 2,468,064        |
| Other Asphalt Surfaces     | 0.00                    | 0.00            | 0.00            |                  |                  |
| Other Non-Asphalt Surfaces | 0.00                    | 0.00            | 0.00            |                  |                  |
| Parking Lot                | 0.00                    | 0.00            | 0.00            |                  |                  |
| <b>Total</b>               | <b>921.20</b>           | <b>1,317.12</b> | <b>1,317.12</b> | <b>2,468,064</b> | <b>2,468,064</b> |

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 |
| City Park                  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Hotel                      | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Other Asphalt Surfaces     | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Other Non-Asphalt Surfaces | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**4.4 Fleet Mix**

| Land Use                   | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park                  | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Hotel                      | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| Other Asphalt Surfaces     | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Other Non-Asphalt Surfaces | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Parking Lot                | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures 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   | 655.1974  | 655.1974  | 0.0357      | 7.3900e-003 | 658.2924 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 655.1974  | 655.1974  | 0.0357      | 7.3900e-003 | 658.2924 |
| NaturalGas Mitigated    | 0.0456  | 0.4148 | 0.3485 | 2.4900e-003 |               | 0.0315       | 0.0315     |                | 0.0315        | 0.0315      | 0.0000   | 451.5807  | 451.5807  | 8.6600e-003 | 8.2800e-003 | 454.2642 |
| NaturalGas Unmitigated  | 0.0456  | 0.4148 | 0.3485 | 2.4900e-003 |               | 0.0315       | 0.0315     |                | 0.0315        | 0.0315      | 0.0000   | 451.5807  | 451.5807  | 8.6600e-003 | 8.2800e-003 | 454.2642 |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                            | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|----------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                   | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| City Park                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Hotel                      | 8.4623e+006    | 0.0456        | 0.4148        | 0.3485        | 2.4900e-003        |               | 0.0315        | 0.0315        |                | 0.0315        | 0.0315        | 0.0000        | 451.5807        | 451.5807        | 8.6600e-003        | 8.2800e-003        | 454.2642        |
| Other Asphalt Surfaces     | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Other Non-Asphalt Surfaces | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>               |                | <b>0.0456</b> | <b>0.4148</b> | <b>0.3485</b> | <b>2.4900e-003</b> |               | <b>0.0315</b> | <b>0.0315</b> |                | <b>0.0315</b> | <b>0.0315</b> | <b>0.0000</b> | <b>451.5807</b> | <b>451.5807</b> | <b>8.6600e-003</b> | <b>8.2800e-003</b> | <b>454.2642</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

|                            | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|----------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                   | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| City Park                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Hotel                      | 8.4623e+006    | 0.0456        | 0.4148        | 0.3485        | 2.4900e-003        |               | 0.0315        | 0.0315        |                | 0.0315        | 0.0315        | 0.0000        | 451.5807        | 451.5807        | 8.6600e-003        | 8.2800e-003        | 454.2642        |
| Other Asphalt Surfaces     | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Other Non-Asphalt Surfaces | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b>               |                | <b>0.0456</b> | <b>0.4148</b> | <b>0.3485</b> | <b>2.4900e-003</b> |               | <b>0.0315</b> | <b>0.0315</b> |                | <b>0.0315</b> | <b>0.0315</b> | <b>0.0000</b> | <b>451.5807</b> | <b>451.5807</b> | <b>8.6600e-003</b> | <b>8.2800e-003</b> | <b>454.2642</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                            | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|----------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use                   | kWh/yr          | MT/yr           |               |                    |                 |
| City Park                  | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Hotel                      | 2.67491e+006    | 645.4847        | 0.0352        | 7.2800e-003        | 648.5337        |
| Other Asphalt Surfaces     | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Other Non-Asphalt Surfaces | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Parking Lot                | 40250           | 9.7128          | 5.3000e-004   | 1.1000e-004        | 9.7587          |
| <b>Total</b>               |                 | <b>655.1974</b> | <b>0.0357</b> | <b>7.3900e-003</b> | <b>658.2924</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

|                            | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|----------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use                   | kWh/yr          | MT/yr           |               |                    |                 |
| City Park                  | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Hotel                      | 2.67491e+006    | 645.4847        | 0.0352        | 7.2800e-003        | 648.5337        |
| Other Asphalt Surfaces     | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Other Non-Asphalt Surfaces | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Parking Lot                | 40250           | 9.7128          | 5.3000e-004   | 1.1000e-004        | 9.7587          |
| <b>Total</b>               |                 | <b>655.1974</b> | <b>0.0357</b> | <b>7.3900e-003</b> | <b>658.2924</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|             | ROG     | NOx         | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr |             |        |        |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 1.3989  | 1.0000e-004 | 0.0106 | 0.0000 |               | 4.0000e-005  | 4.0000e-005 |                | 4.0000e-005   | 4.0000e-005 | 0.0000   | 0.0205    | 0.0205    | 5.0000e-005 | 0.0000 | 0.0219 |
| Unmitigated | 1.3989  | 1.0000e-004 | 0.0106 | 0.0000 |               | 4.0000e-005  | 4.0000e-005 |                | 4.0000e-005   | 4.0000e-005 | 0.0000   | 0.0205    | 0.0205    | 5.0000e-005 | 0.0000 | 0.0219 |

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 | 0.0870        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 1.3110        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 9.8000e-004   | 1.0000e-004        | 0.0106        | 0.0000        |               | 4.0000e-005        | 4.0000e-005        |                | 4.0000e-005        | 4.0000e-005        | 0.0000        | 0.0205        | 0.0205        | 5.0000e-005        | 0.0000        | 0.0219        |
| <b>Total</b>          | <b>1.3989</b> | <b>1.0000e-004</b> | <b>0.0106</b> | <b>0.0000</b> |               | <b>4.0000e-005</b> | <b>4.0000e-005</b> |                | <b>4.0000e-005</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.0205</b> | <b>0.0205</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.0219</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |               |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.0870        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 1.3110        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 9.8000e-004   | 1.0000e-004        | 0.0106        | 0.0000        |               | 4.0000e-005        | 4.0000e-005        |                | 4.0000e-005        | 4.0000e-005        | 0.0000        | 0.0205        | 0.0205        | 5.0000e-005        | 0.0000        | 0.0219        |
| <b>Total</b>          | <b>1.3989</b> | <b>1.0000e-004</b> | <b>0.0106</b> | <b>0.0000</b> |               | <b>4.0000e-005</b> | <b>4.0000e-005</b> |                | <b>4.0000e-005</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.0205</b> | <b>0.0205</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.0219</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

|             | Total CO2 | CH4    | N2O         | CO2e     |
|-------------|-----------|--------|-------------|----------|
| Category    | MT/yr     |        |             |          |
| Mitigated   | 103.2306  | 0.2647 | 7.2600e-003 | 112.0107 |
| Unmitigated | 129.0383  | 0.3309 | 9.0700e-003 | 140.0133 |

**7.2 Water by Land Use**

**Unmitigated**

|                            | Indoor/Outdoor Use | Total CO2       | CH4           | N2O                | CO2e            |
|----------------------------|--------------------|-----------------|---------------|--------------------|-----------------|
| Land Use                   | Mgal               | MT/yr           |               |                    |                 |
| City Park                  | 0 / 34.1955        | 91.6770         | 5.0000e-003   | 1.0300e-003        | 92.1101         |
| Hotel                      | 9.94377 / 1.10486  | 37.3613         | 0.3259        | 8.0400e-003        | 47.9032         |
| Other Asphalt Surfaces     | 0 / 0              | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Other Non-Asphalt Surfaces | 0 / 0              | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Parking Lot                | 0 / 0              | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| <b>Total</b>               |                    | <b>129.0383</b> | <b>0.3309</b> | <b>9.0700e-003</b> | <b>140.0133</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

|                            | Indoor/Outdoor Use | Total CO2       | CH4           | N2O                | CO2e            |
|----------------------------|--------------------|-----------------|---------------|--------------------|-----------------|
| Land Use                   | Mgal               | MT/yr           |               |                    |                 |
| City Park                  | 0 / 27.3564        | 73.3416         | 4.0000e-003   | 8.3000e-004        | 73.6881         |
| Hotel                      | 7.95502 / 0.883891 | 29.8890         | 0.2607        | 6.4300e-003        | 38.3226         |
| Other Asphalt Surfaces     | 0 / 0              | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Other Non-Asphalt Surfaces | 0 / 0              | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Parking Lot                | 0 / 0              | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| <b>Total</b>               |                    | <b>103.2306</b> | <b>0.2647</b> | <b>7.2600e-003</b> | <b>112.0106</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**Category/Year**

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
|             | MT/yr     |        |        |          |
| Mitigated   | 11.0168   | 0.6511 | 0.0000 | 27.2937  |
| Unmitigated | 44.0673   | 2.6043 | 0.0000 | 109.1749 |

**8.2 Waste by Land Use**

**Unmitigated**

|                            | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e            |
|----------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use                   | tons           | MT/yr          |               |               |                 |
| City Park                  | 2.47           | 0.5014         | 0.0296        | 0.0000        | 1.2422          |
| Hotel                      | 214.62         | 43.5659        | 2.5747        | 0.0000        | 107.9327        |
| Other Asphalt Surfaces     | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000          |
| Other Non-Asphalt Surfaces | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000          |
| <b>Total</b>               |                | <b>44.0673</b> | <b>2.6043</b> | <b>0.0000</b> | <b>109.1749</b> |

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

|                            | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|----------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use                   | tons           | MT/yr          |               |               |                |
| City Park                  | 0.6175         | 0.1254         | 7.4100e-003   | 0.0000        | 0.3105         |
| Hotel                      | 53.655         | 10.8915        | 0.6437        | 0.0000        | 26.9832        |
| Other Asphalt Surfaces     | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Other Non-Asphalt Surfaces | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| <b>Total</b>               |                | <b>11.0168</b> | <b>0.6511</b> | <b>0.0000</b> | <b>27.2937</b> |

**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 |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

Sand Canyon Resort, Santa Clarita, CA - Los Angeles-South Coast County, Annual

**User Defined Equipment**

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

**11.0 Vegetation**

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# Sand Canyon Resort Project

## Construction Equipment Fuel Usage

| Activity              | Equipment                 | Project Number | Project Hours per day | Default Horse-power | Default Load Factor | Days of Construction | Total Horsepower-hours | Fuel Rate (gal/hp-hr) | Fuel Use (gallons) |
|-----------------------|---------------------------|----------------|-----------------------|---------------------|---------------------|----------------------|------------------------|-----------------------|--------------------|
| Demolition            | Concrete/Industrial Saw   | 1              | 8                     | 81                  | 0.73                | 10                   | 4,730                  | 0.023965              | 113                |
|                       | Excavators                | 3              | 8                     | 158                 | 0.38                | 10                   | 14,410                 | 0.019763              | 285                |
|                       | Rubber Tired Dozers       | 2              | 8                     | 247                 | 0.4                 | 10                   | 15,808                 | 0.020461              | 323                |
| Site Preparation      | Rubber Tired Dozer        | 3              | 8                     | 247                 | 0.4                 | 25                   | 59,280                 | 0.020461              | 1,213              |
|                       | Crawler Tractor           | 4              | 8                     | 212                 | 0.43                | 25                   | 72,928                 | 0.022173              | 1,617              |
| Grading               | Excavators                | 2              | 8                     | 158                 | 0.38                | 50                   | 48,032                 | 0.019763              | 949                |
|                       | Graders                   | 1              | 8                     | 187                 | 0.41                | 50                   | 30,668                 | 0.021143              | 648                |
|                       | Rubber Tired Dozers       | 1              | 8                     | 247                 | 0.4                 | 50                   | 39,520                 | 0.020461              | 809                |
|                       | Scrapers                  | 2              | 8                     | 367                 | 0.48                | 50                   | 140,928                | 0.024738              | 3,486              |
|                       | Crawler Tractor           | 2              | 8                     | 212                 | 0.43                | 50                   | 72,928                 | 0.022173              | 1,617              |
| Building Construction | Crane                     | 1              | 7                     | 231                 | 0.29                | 300                  | 140,679                | 0.014896              | 2,096              |
|                       | Forklifts                 | 3              | 8                     | 89                  | 0.2                 | 300                  | 128,160                | 0.019105              | 2,449              |
|                       | Tractors/Loaders/Backhoes | 3              | 7                     | 97                  | 0.37                | 300                  | 226,107                | 0.023965              | 5,419              |
|                       | Welders                   | 1              | 8                     | 46                  | 0.45                | 300                  | 49,680                 | 0.023965              | 1,191              |
|                       | Generator Set             | 1              | 8                     | 84                  | 0.74                | 300                  | 149,184                | 0.023965              | 3,575              |
| Paving                | Pavers                    | 2              | 8                     | 130                 | 0.42                | 30                   | 26,208                 | 0.021525              | 564                |
|                       | Paving Equipment          | 2              | 8                     | 132                 | 0.36                | 30                   | 22,810                 | 0.018334              | 418                |
|                       | Rollers                   | 2              | 8                     | 80                  | 0.38                | 30                   | 14,592                 | 0.019412              | 283                |
| Architectural Coating | Air Compressor            | 1              | 6                     | 78                  | 0.48                | 40                   | 8,986                  | 0.023965              | 215                |

Fuel Consumption rates derived from the ARB OFFROAD2017 - Orion Web Database

Total 26,549



**Sand Canyon Resort Project**

**Fuel Consumption from Construction Vehicles (Derived from the ARB EMFAC2017 Mobile Source Emission Model)**

**Emission Factors**

| Region (County) | Calendar Year | Vehicle Category | Model Year | Speed      | Fuel | VTM (miles/day) | Fuel Consumption (1000 gallons/day) | Fuel Rate (miles/gallon) |
|-----------------|---------------|------------------|------------|------------|------|-----------------|-------------------------------------|--------------------------|
| LOS ANGELES     | 2021          | MHDT-T6          | Aggregated | Aggregated | DSL  | 4146737         | 407.5                               | 10.2                     |
| LOS ANGELES     | 2021          | HHDT-T7          | Aggregated | Aggregated | DSL  | 6891921         | 1076.1                              | 6.4                      |
|                 |               |                  |            |            |      |                 | <b>Average (50%/50%)</b>            | <b>8.3</b>               |
| LOS ANGELES     | 2021          | LDA              | Aggregated | Aggregated | GAS  | 154957028       | 5253                                | 29.5                     |
| LOS ANGELES     | 2021          | LDT1             | Aggregated | Aggregated | GAS  | 17065391        | 670                                 | 25.5                     |
| LOS ANGELES     | 2021          | LDT2             | Aggregated | Aggregated | GAS  | 52553142        | 2239                                | 23.5                     |
|                 |               |                  |            |            |      |                 | <b>Average (50%/25%/25%)</b>        | <b>27</b>                |

**Vehicle Assumptions (CalEEMod)**

**Haul trucks** represented by HHDT-T7 (heavy -heavy duty haul truck)

MHDT-T6 (medium heavy duty haul truck)

**Vendor trucks** assumed to be 50% HHDT-T7 and MHDT-T6)

LDA (light duty automobile for worker vehicles)

LDT1 (light duty truck 1 for worker vehicles)

LDT2 (light duty truck 2 for worker vehicles)

**Worker vehicles** represented as 50% LDT, 25% LHT1, and 25% LDT2

**Construction Vehicle Use (Derived from the CalEEMod model output)**

**Fuel Consumption for Haul Trucks**

| Construction Activity | No Haul Truck Trips | Trip Length | VTM (miles)  | DSL Fuel (gallons) |
|-----------------------|---------------------|-------------|--------------|--------------------|
| Demolition            | 168                 | 20          | 3360         | 525                |
| Site Preparation      | 0                   | 20          | 0            | 0                  |
| Grading               | 1,250               | 20          | 25000        | 3903               |
| Building Construction | 0                   | 20          | 0            | 0                  |
| Paving -              | 0                   | 20          | 0            | 0                  |
| Architectural Coating | 0                   | 20          | 0            | 0                  |
| <b>Total</b>          | <b>1418</b>         |             | <b>28360</b> | <b>4428</b>        |

| Construction Activity | No Vendor Truck Trips/day | Duration (days) | Trip Length (miles) | VTM (miles) | Fuel | Fuel Rate (miles/gallon) | DSL Fuel (gallons) |
|-----------------------|---------------------------|-----------------|---------------------|-------------|------|--------------------------|--------------------|
| Demolition            | 0                         | 10              | 6.9                 | 0           | DSL  | 8.3                      | 0.00               |
| Site Preparation      | 0                         | 25              | 6.9                 | 0           | DSL  | 8.3                      | 0.00               |
| Grading               | 0                         | 50              | 6.9                 | 0           | DSL  | 8.3                      | 0.00               |
| Building Construction | 324                       | 300             | 6.9                 | 670,680     | DSL  | 8.3                      | 80,904             |
| Paving                | 0                         | 30              | 6.9                 | 0           | DSL  | 8.3                      | 0.00               |
| Architectural Coating | 0                         | 40              | 6.9                 | 0           | DSL  | 8.3                      | 0.00               |
| <b>Total</b>          |                           |                 |                     |             |      |                          | <b>80,904</b>      |

| Activity              | No Worker Vehicles Trips/day | Duration (days) | Trip Length (miles) | VTM (miles) | Fuel | Fuel Rate (miles/gallon) | Gas Fuel (gallons) |
|-----------------------|------------------------------|-----------------|---------------------|-------------|------|--------------------------|--------------------|
| Demolition            | 15                           | 10              | 14.7                | 2,205       | GAS  | 27                       | 82                 |
| Site Preparation      | 18                           | 25              | 14.7                | 6,615       | GAS  | 27                       | 245                |
| Grading               | 20                           | 50              | 14.7                | 14,700      | GAS  | 27                       | 545                |
| Building Construction | 830                          | 300             | 14.7                | 3,660,300   | GAS  | 27                       | 135,658            |
| Paving                | 15                           | 30              | 14.7                | 6,615       | GAS  | 27                       | 245                |
| Architectural Coating | 166                          | 40              | 14.7                | 97,608      | GAS  | 27                       | 3,618              |

| Summary     | Gallons |
|-------------|---------|
| Total -DSL  | 85,333  |
| Total - GAS | 140,066 |
|             | 225,398 |

# Sand Canyon Resort Project

## Estimation of Operational Vehicle Fuel Use

| Total Annual VMT from CalEEMod |                       | 2,468,064                  |                 |                |                             |                        |        |                |                |                        |                        |
|--------------------------------|-----------------------|----------------------------|-----------------|----------------|-----------------------------|------------------------|--------|----------------|----------------|------------------------|------------------------|
| Vehicle Class                  | CalEEMod              |                            |                 | Annual DSL VMT | Fuel Rate -DSL (mi/gallons) | DSL Fuel Consumption   |        | EMFAC2017 %GAS | Annual GAS VMT | GAS Fuel Consumption   |                        |
|                                | Project Fleet Mix (%) | Fleet Mileage (miles/year) | EMFAC2017 % DSL |                |                             | Consumption (gal/year) | %GAS   |                |                | Fuel Rate-GAS (mi/gal) | Consumption (gal/year) |
| LDA                            | 54.7%                 | 1,350,031                  | 0.9%            | 11,542         | 46.1                        | 250                    | 99.1%  | 1,338,489      | 29.5           | 45,375                 |                        |
| LDT1                           | 4.5%                  | 111,063                    | 0.0%            | 48             | 21.6                        | 2                      | 100.0% | 111,015        | 25.5           | 4,361                  |                        |
| LDT2                           | 20.5%                 | 505,953                    | 0.7%            | 3,400          | 33.8                        | 100                    | 99.3%  | 502,553        | 23.5           | 21,410                 |                        |
| MDV                            | 11.9%                 | 293,700                    | 2.2%            | 6,374          | 26.1                        | 244                    | 97.8%  | 287,326        | 19.1           | 15,023                 |                        |
| LHDT1                          | 1.5%                  | 37,021                     | 40.3%           | 14,910         | 21.4                        | 696                    | 59.7%  | 22,111         | 10.3           | 2,139                  |                        |
| LHDT2                          | 0.6%                  | 14,808                     | 62.0%           | 9,175          | 19.3                        | 476                    | 38.0%  | 5,634          | 9.0            | 626                    |                        |
| MHDT                           | 2.0%                  | 49,361                     | 83.7%           | 41,312         | 10.2                        | 4,060                  | 16.3%  | 8,049          | 5.0            | 1,619                  |                        |
| HHDT                           | 3.1%                  | 76,510                     | 99.9%           | 76,446         | 6.4                         | 11,936                 | 0.1%   | 64             | 4.0            | 16                     |                        |
| OBUS                           | 0.3%                  | 7,404                      | 57.6%           | 4,263          | 8.1                         | 525                    | 42.4%  | 3,142          | 4.9            | 637                    |                        |
| UBUS                           | 0.2%                  | 4,936                      | 13.3%           | 655            | 6.3                         | 104                    | 86.7%  | 4,281          | 4.2            | 1,031                  |                        |
| MCY                            | 0.5%                  | 12,340                     | 0.0%            | -              | -                           | -                      | 100.0% | 12,340         | 35.8           | 345                    |                        |
| SBUS                           | 0.1%                  | 2,468                      | 69.4%           | 1,713          | 7.5                         | 227                    | 30.6%  | 755            | 9.1            | 83                     |                        |
| MH                             | 0.1%                  | 2,468                      | 23.7%           | 585            | 10.4                        | 56                     | 76.3%  | 1,884          | 5.1            | 372                    |                        |
| Totals                         | 100.0%                | 2,468,064                  |                 | 170,420        |                             | 18,677                 |        | 2,297,644      |                | 93,036                 |                        |

Total VMT-DSL 170,420 VMT  
 Total VMT-Gas 2,297,644 VMT  
 2,468,064 VMT

Total Fuel - DSL 18,677 gallons/year  
 Total Fuel - GAS 93,036 gallons/year  
 111,713

Fuel rates and fuel mixes defined in the EMFAC2017 mobile source emission model

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: LOS ANGELES

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

| Region    | Calendar Y | Vehicle Ca | Model Yea  | Speed      | Fuel | VMT      | Fuel Consumption | Fuel Rate |         | VMT | VMT          | %DSL     | %GAS  |        |
|-----------|------------|------------|------------|------------|------|----------|------------------|-----------|---------|-----|--------------|----------|-------|--------|
| LOS ANGEL | 2021       | LDA        | Aggregater | Aggregater | DSL  | 1336170  | 28.99551         | 46.08197  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | LDT1       | Aggregater | Aggregater | DSL  | 7338.123 | 0.340197         | 21.57019  | LDA     | DSL | 1336170 GAS  | 1.55E+08 | 0.9%  | 99.1%  |
| LOS ANGEL | 2021       | LDT2       | Aggregater | Aggregater | DSL  | 355535.4 | 10.50576         | 33.84196  | LDT1    | DSL | 7338.123 GAS | 17065391 | 0.0%  | 100.0% |
| LOS ANGEL | 2021       | LHDT1      | Aggregater | Aggregater | DSL  | 2667215  | 124.5587         | 21.41331  | LDT2    | DSL | 355535.4 GAS | 52553142 | 0.7%  | 99.3%  |
| LOS ANGEL | 2021       | LHDT2      | Aggregater | Aggregater | DSL  | 1035823  | 53.69277         | 19.29167  | LHDT1   | DSL | 2667215 GAS  | 3955472  | 40.3% | 59.7%  |
| LOS ANGEL | 2021       | MDV        | Aggregater | Aggregater | DSL  | 734378.7 | 28.12153         | 26.11447  | LHDT2   | DSL | 1035823 GAS  | 636046.4 | 62.0% | 38.0%  |
| LOS ANGEL | 2021       | MH         | Aggregater | Aggregater | DSL  | 61474.43 | 5.917629         | 10.38836  | MCY     | DSL | 0 GAS        | 1259346  | 0.0%  | 100.0% |
| LOS ANGEL | 2021       | OBUS       | Aggregater | Aggregater | DSL  | 233602.7 | 28.7655          | 8.120934  | MDV     | DSL | 734378.7 GAS | 33105799 | 2.2%  | 97.8%  |
| LOS ANGEL | 2021       | SBUS       | Aggregater | Aggregater | DSL  | 121324.5 | 16.10456         | 7.533548  | MH      | DSL | 61474.43 GAS | 198097   | 23.7% | 76.3%  |
| LOS ANGEL | 2021       | T6-MHDT    | Aggregater | Aggregater | DSL  | 4146737  | 407.5458         | 10.1749   | OBUS    | DSL | 233602.7 GAS | 172164.4 | 57.6% | 42.4%  |
| LOS ANGEL | 2021       | T7-HHDT    | Aggregater | Aggregater | DSL  | 6891921  | 1076.081         | 6.404649  | SBUS    | DSL | 121324.5 GAS | 53467.22 | 69.4% | 30.6%  |
| LOS ANGEL | 2021       | UBUS       | Aggregater | Aggregater | DSL  | 5105.145 | 0.807133         | 6.325037  | T6-MHDT | DSL | 4146737 GAS  | 807949.9 | 83.7% | 16.3%  |
| LOS ANGEL | 2021       | LDA        | Aggregater | Aggregater | GAS  | 1.55E+08 | 5253.036         | 29.49857  | T7-HHDT | DSL | 6891921 GAS  | 5770.22  | 99.9% | 0.1%   |
| LOS ANGEL | 2021       | LDT1       | Aggregater | Aggregater | GAS  | 17065391 | 670.3613         | 25.45701  | UBUS    | DSL | 5105.145 GAS | 33383.22 | 13.3% | 86.7%  |
| LOS ANGEL | 2021       | LDT2       | Aggregater | Aggregater | GAS  | 52553142 | 2238.863         | 23.47314  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | LHDT1      | Aggregater | Aggregater | GAS  | 3955472  | 382.6977         | 10.33576  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | LHDT2      | Aggregater | Aggregater | GAS  | 636046.4 | 70.61943         | 9.006677  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | MCY        | Aggregater | Aggregater | GAS  | 1259346  | 35.18425         | 35.79288  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | MDV        | Aggregater | Aggregater | GAS  | 33105799 | 1730.987         | 19.12539  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | MH         | Aggregater | Aggregater | GAS  | 198097   | 39.17625         | 5.056559  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | OBUS       | Aggregater | Aggregater | GAS  | 172164.4 | 34.9094          | 4.93175   |         |     |              |          |       |        |
| LOS ANGEL | 2021       | SBUS       | Aggregater | Aggregater | GAS  | 53467.22 | 5.870332         | 9.108041  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | T6-MHDT    | Aggregater | Aggregater | GAS  | 807949.9 | 162.4615         | 4.973176  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | T7-HHDT    | Aggregater | Aggregater | GAS  | 5770.22  | 1.443583         | 3.997151  |         |     |              |          |       |        |
| LOS ANGEL | 2021       | UBUS       | Aggregater | Aggregater | GAS  | 33383.22 | 8.035869         | 4.154277  |         |     |              |          |       |        |



# Sand Canyon Resort Project

## Greenhouse Gas Summary

**Construction**                      **MTCO<sub>2</sub>e**  
104 as amortized over 30 years

### Operation

|        |       |                        |
|--------|-------|------------------------|
| Area   | -     |                        |
| Energy | 1,113 | does not include solar |
| Mobile | 1,038 |                        |
| Waste  | 109   |                        |
| Water  | 140   |                        |

|              |              |
|--------------|--------------|
| <b>Total</b> | <b>2,504</b> |
|--------------|--------------|

