

Planning and Building Agency  
Planning Division  
20 Civic Center Plaza  
P.O. Box 1988 (M-20)  
Santa Ana, CA 92702  
(714) 647-5804

## APPEAL APPLICATION

### I. OWNER/APPLICANT

Applicant Southwest Mountain States Regional Council of Carpenters

Full name of Person, Firm, or Corporation

533 S. Fremont Ave., 10th Fl., Los Angeles CA 90071

Mailing Address

(213) 385-1457

Area Code

Phone No.

Legal Owner Name: Sapetto Real Estate Solutions (applicant); David Colton (owner)

Legal Owner Address: One Park Plaza, Suite 600, PMB313, Irvine, CA 92614 (Sapetto)

515 Cabrillo Park Dr STE 305, Santa Ana, CA 92701 (The Colton Company)

Phone No.: (949) 252-0841 (Sapetto) (714) 547-0800 (Colton Company) Fax: ( )

### II. PROPERTY INFORMATION

Land Use Cabrillo Park & Medical Offices

P and Village Center District District Center - Medium (DC-3)

Existing Land Use of Property and/or Building

Zoning District

General Plan Designation

Location 1901 and 1917 E. Fourth St.; 515 and 525 N. Cabrillo Park Dr.

Fourth Street and Cabrillo Park Dr.

Street Address


Name of Nearest Intersecting Street

SEE REVERSE SIDE FOR SUBMITTAL REQUIREMENTS

### III. REASON FOR REQUEST

In the following provided space, please clearly specify and explain the error(s) of decision or requirement upon which you are basing this appeal. (If additional space is needed, please attach additional comments to the back of this application.)

See attached letter.

Applicant's Signature: 

Date: May 3, 2023

APPEAL APPLICATION NO. \_\_\_\_\_

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**Mitchell M. Tsai**  
Attorney At Law

139 South Hudson Avenue  
Suite 200  
Pasadena, California 91101

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**VIA E-MAIL**

May 3, 2023

Ali Pezeshkpour, Planning Manager  
City of Santa Ana Planning Department  
20 Civic Centre Plaza  
Santa Ana, CA 92702  
Em: [APezeshkpour@santa-ana.org](mailto:APezeshkpour@santa-ana.org)

**RE: Appeal of Planning Commission Approval of Cabrillo Town  
Center Mixed-Use Development Project [SPR No. 2023-01] [TTM  
No. 2023-03]**

Dear City of Santa Ana Planning Department,

On behalf of the Southwest Mountain States Regional Council of Carpenters (“**Southwest Mountain States Carpenters**” or “**SWMSRCC**”), my Office is submitting this appeal of the April 24, 2023 Planning Commission decision approving the Cabrillo Town Center Mixed-Use Development project (**Project**”).

During its development review, the Project was subject to two community “Sunshine” meetings on August 15 and November 10, 2022, where members of the general public raised concerns regarding the Project.<sup>1</sup> Nevertheless, on April 24, 2023, the Planning Commission approved the Project. Accordingly, SWMSRCC is now submitting this appeal within 10 days of the Planning Commission meeting, as required.<sup>2</sup>

The Southwest Mountain States Carpenters is a labor union representing 63,000 union carpenters in 10 states, including California, and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects. Individual members of SWMSRCC live, work, and recreate in the City and surrounding communities and would be directly affected by the Project’s environmental impacts.

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<sup>1</sup> See City’s Project Information page, available at <https://www.santa-ana.org/cabrillo-town-center-1901-e-fourth-street/>.

<sup>2</sup> See Santa Ana Municipal Code, section 41-645(b).

## **I. THE CITY SHOULD REQUIRE THE USE OF A LOCAL WORKFORCE TO BENEFIT THE COMMUNITY'S ECONOMIC DEVELOPMENT AND ENVIRONMENT**

First, SWMSRCC maintains that the City should require the Project to be built using a local workers who have graduated from a Joint Labor-Management Apprenticeship Program approved by the State of California, have at least as many hours of on-the-job experience in the applicable craft which would be required to graduate from such a state-approved apprenticeship training program, or who are registered apprentices in a state-approved apprenticeship training program.

Community benefits such as local hire can also be helpful to reduce environmental impacts and improve the positive economic impact of the Project. Local hire provisions requiring that a certain percentage of workers reside within 10 miles or less of the Project site can reduce the length of vendor trips, reduce greenhouse gas emissions, and provide localized economic benefits. As environmental consultants Matt Hagemann and Paul E. Rosenfeld note:

[A]ny local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling.

Workforce requirements promote the development of skilled trades that yield sustainable economic development. As the California Workforce Development Board and the University of California, Berkeley Center for Labor Research and Education concluded:

[L]abor should be considered an investment rather than a cost—and investments in growing, diversifying, and upskilling California's workforce can positively affect returns on climate mitigation efforts. In other words,

well-trained workers are key to delivering emissions reductions and moving California closer to its climate targets.<sup>3</sup>

Furthermore, workforce policies have significant environmental benefits given that they improve an area's jobs-housing balance, decreasing the amount and length of job commutes and the associated greenhouse gas (“**GHG**”) emissions. In fact, on May 7, 2021, the South Coast Air Quality Management District found that the “[u]se of a local state-certified apprenticeship program” can result in air pollutant reductions.<sup>4</sup>

Locating jobs closer to residential areas can have significant environmental benefits. As the California Planning Roundtable noted in 2008:

People who live and work in the same jurisdiction would be more likely to take transit, walk, or bicycle to work than residents of less balanced communities and their vehicle trips would be shorter. Benefits would include potential reductions in both vehicle miles traveled and vehicle hours traveled.<sup>5</sup>

Moreover, local hire mandates and skill-training are critical facets of a strategy to reduce vehicle miles traveled (“**VTM**”). As planning experts Robert Cervero and Michael Duncan have noted, simply placing jobs near housing stock is insufficient to achieve VMT reductions given that the skill requirements of available local jobs must match those held by local residents.<sup>6</sup> Some municipalities have even tied local hire and

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<sup>3</sup> California Workforce Development Board (2020) Putting California on the High Road: A Jobs and Climate Action Plan for 2030 at p. ii, *available at* <https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf>.

<sup>4</sup> South Coast Air Quality Management District (May 7, 2021) Certify Final Environmental Assessment and Adopt Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions Program, and Proposed Rule 316 – Fees for Rule 2305, Submit Rule 2305 for Inclusion Into the SIP, and Approve Supporting Budget Actions, *available at* <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10>.

<sup>5</sup> California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, *available at* <https://cprroundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf>

<sup>6</sup> Cervero, Robert and Duncan, Michael (2006) Which Reduces Vehicle Travel More: Jobs-Housing Balance or Retail-Housing Mixing? Journal of the American Planning Association 72 (4), 475-490, 482, *available at* <http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf>.

other workforce policies to local development permits to address transportation issues. Cervero and Duncan note that:

In nearly built-out Berkeley, CA, the approach to balancing jobs and housing is to create local jobs rather than to develop new housing. The city's First Source program encourages businesses to hire local residents, especially for entry- and intermediate-level jobs, and sponsors vocational training to ensure residents are employment-ready. While the program is voluntary, some 300 businesses have used it to date, placing more than 3,000 city residents in local jobs since it was launched in 1986. When needed, these carrots are matched by sticks, since the city is not shy about negotiating corporate participation in First Source as a condition of approval for development permits.

Recently, the State of California verified its commitment towards workforce development through the Affordable Housing and High Road Jobs Act of 2022, otherwise known as Assembly Bill No. 2011 (“**AB2011**”). AB2011 amended the Planning and Zoning Law to allow ministerial, by-right approval for projects being built alongside commercial corridors that meet affordability and labor requirements.

The City should utilize local workforce policies and requirements to benefit the local area economically and to mitigate greenhouse gas, improve air quality, and reduce transportation impacts.

## **II. THE CITY SHOULD IMPOSE TRAINING REQUIREMENTS FOR THE PROJECT'S CONSTRUCTION ACTIVITIES TO PREVENT COMMUNITY SPREAD OF COVID-19 AND OTHER INFECTIOUS DISEASES**

Construction work has been defined as a Lower to High-risk activity for COVID-19 spread by the Occupational Safety and Health Administration. In fact, several construction sites have been identified as sources of community spread of COVID-19.<sup>7</sup> Thus, the City should adopt additional requirements to mitigate public health risks from the Project's construction activities such as requiring safe on-site

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<sup>7</sup> Santa Clara County Public Health (June 12, 2020) COVID-19 CASES AT CONSTRUCTION SITES HIGHLIGHT NEED FOR CONTINUED VIGILANCE IN SECTORS THAT HAVE REOPENED, *available at* <https://www.sccgov.org/sites/covid19/Pages/press-release-06-12-2020-cases-at-construction-sites.aspx>.

construction work practices as well as training and certification for any construction workers on the Project Site.

In particular, based upon Southwest Mountain States Carpenters' experience with safe construction site work practices, SWMSRCC recommends that the City require that while construction activities are being conducted at the Project Site:

**Construction Site Design:**

- The Project Site will be limited to two controlled entry points.
- Entry points will have temperature screening technicians taking temperature readings when the entry point is open.
- The Temperature Screening Site Plan shows details regarding access to the Project Site and Project Site logistics for conducting temperature screening.
- A 48-hour advance notice will be provided to all trades prior to the first day of temperature screening.
- The perimeter fence directly adjacent to the entry points will be clearly marked indicating the appropriate 6-foot social distancing position for when you approach the screening area. Please reference the Apex temperature screening site map for additional details.
- There will be clear signage posted at the project site directing you through temperature screening.
- Provide hand washing stations throughout the construction site.

**Testing Procedures:**

- The temperature screening being used are non-contact devices.
- Temperature readings will not be recorded.
- Personnel will be screened upon entering the testing center and should only take 1-2 seconds per individual.

- Hard hats, head coverings, sweat, dirt, sunscreen or any other cosmetics must be removed on the forehead before temperature screening.
- Anyone who refuses to submit to a temperature screening or does not answer the health screening questions will be refused access to the Project Site.
- Screening will be performed at both entrances from 5:30 am to 7:30 am.; main gate [ZONE 1] and personnel gate [ZONE 2]
- After 7:30 am only the main gate entrance [ZONE 1] will continue to be used for temperature testing for anybody gaining entry to the project site such as returning personnel, deliveries, and visitors.
- If the digital thermometer displays a temperature reading above 100.0 degrees Fahrenheit, a second reading will be taken to verify an accurate reading.
- If the second reading confirms an elevated temperature, DHS will instruct the individual that he/she will not be allowed to enter the Project Site. DHS will also instruct the individual to promptly notify his/her supervisor and his/her human resources (HR) representative and provide them with a copy of Annex A.

### **Planning**

- Require the development of an Infectious Disease Preparedness and Response Plan that will include basic infection prevention measures (requiring the use of personal protection equipment), policies and procedures for prompt identification and isolation of sick individuals, social distancing (prohibiting gatherings of no more than 10 people including all-hands meetings and all-hands lunches) communication and training and workplace controls that meet standards that may be promulgated by the Center for Disease Control, Occupational Safety and Health

Administration, Cal/OSHA, California Department of Public Health or applicable local public health agencies.<sup>8</sup>

The United Brotherhood of Carpenters and Carpenters International Training Fund has developed COVID-19 Training and Certification to ensure that Carpenter union members and apprentices conduct safe work practices. The City should require that all construction workers undergo COVID-19 Training and Certification before being allowed to conduct construction activities at the Project Site.

Southwest Mountain States Carpenters has also developed a rigorous Infection Control Risk Assessment (“**ICRA**”) training program to ensure it delivers a workforce that understands how to identify and control infection risks by implementing protocols to protect themselves and all others during renovation and construction projects in healthcare environments.<sup>9</sup>

ICRA protocols are intended to contain pathogens, control airflow, and protect patients during the construction, maintenance and renovation of healthcare facilities. ICRA protocols prevent cross contamination, minimizing the risk of secondary infections in patients at hospital facilities.

The City should require the Project to be built using a workforce trained in ICRA protocols.

### **III. THE CITY SHOULD HAVE PREPARED A SUBSEQUENT ENVIRONMENTAL IMPACT REPORT FOR THE PROJECT**

CEQA is a California statute designed to inform decision makers and the public about the potential, significant environmental effects of a project. 14 California Code of Regulations (“**CEQA Guidelines**”) § 15002(a)(1).<sup>10</sup> At its core, “[i]ts purpose is to

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<sup>8</sup> See also The Center for Construction Research and Training, North America’s Building Trades Unions (April 27 2020) NABTU and CPWR COVID-19 Standards for U.S. Construction Sites, *available at* [https://www.cpwr.com/sites/default/files/NABTU\\_CPWR\\_Standards\\_COVID-19.pdf](https://www.cpwr.com/sites/default/files/NABTU_CPWR_Standards_COVID-19.pdf); Los Angeles County Department of Public Works (2020) Guidelines for Construction Sites During COVID-19 Pandemic, *available at* [https://dpw.lacounty.gov/building-and-safety/docs/pw\\_guidelines-construction-sites.pdf](https://dpw.lacounty.gov/building-and-safety/docs/pw_guidelines-construction-sites.pdf).

<sup>9</sup> For details concerning Southwest Carpenters’s ICRA training program, *see* <https://icrahealthcare.com/>.

<sup>10</sup> The CEQA Guidelines, codified in Title 14 of the California Code of Regulations, section 15000 *et seq.*, are regulatory guidelines promulgated by the state Natural Resources Agency for the implementation of CEQA. (Cal. Pub. Res. Code § 21083.) The CEQA Guidelines are given “great weight in interpreting CEQA except when . . . clearly unauthorized or



inform the public and its responsible officials of the environmental consequences of their decisions *before* they are made.” *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal. 3d 553, 564.

To achieve this purpose, CEQA mandates preparation of an Environmental Impact Report (“**EIR**”) for projects so that the foreseeable impacts of pursuing the project can be understood and weighed. *Communities for a Better Environment v. Richmond* (2010) 184 Cal. App. 4th 70, 80. The EIR requirement “is the heart of CEQA.” CEQA Guidelines, § 15003(a).

The preparation and circulation of an EIR is more than a set of technical hurdles for agencies and developers to overcome. The EIR’s function is to ensure that government officials who decide to build or approve a project do so with a full understanding of the environmental consequences and, equally important, that the public is assured those consequences have been considered. For the EIR to serve these goals it must present information so that the foreseeable impacts of pursuing the project can be understood and weighed, and the public must be given an adequate opportunity to comment on that presentation before the decision to go forward is made. *Communities for a Better Environment v. Richmond* (2010) 184 Cal. App. 4th 70, 80 (quoting *Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal. 4th 412, 449–450).

Here, the City contends that no subsequent EIR is necessary pursuant to the CEQA Guidelines because the Project is within the scope of Metro East Mixed-Use Overlay Zone EIR (“**Metro EIR**”) and that there are no substantial changes with respect to the circumstances or new necessary mitigation measures. Specifically, the meeting Agenda states:

the project is within the scope of a project covered by a previously certified Environmental Impact Report (EIR) (Metro East Mixed- Use Overlay Zone and SCH NO. 2006031041). The previously prepared EIR adequately described the project’s environmental setting, significant impacts and alternatives, and mitigation measures related to each impact. There are no substantial changes with respect to circumstances under which the project is undertaken that will require major revisions to the EIR. There is no new information of substantial

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erroneous.” *Center for Biological Diversity v. Department of Fish & Wildlife* (2015) 62 Cal. 4th 204, 217.

importance. There are no new environmental impact or mitigation measure needed. All applicable mitigation measure applied to the previously prepared EIR will be applied to this project.

Section 15162 of the CEQA Guidelines requires a subsequent EIR any time:

- (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete, shows any of the following:
  - (a) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
  - (b) Significant effects previously examined will be substantially more severe than shown in the previous EIR;
  - (c) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
  - (d) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Given that there have been substantial changes to the Project and Project circumstances, and new information of substantial importance has come out since the certification of the Metro EIR, a subsequent EIR should have been prepared.

A. There Are New Transportation Impact Methodology Requirements, Not Analyzed in the Metro EIR

In July 2020, Senate Bill (“**SB**”) 743 took effect in order to help reduce transportation impacts. Specifically, in an effort to reduce greenhouse gas impacts and create long term sustainability, SB 743 changed the standard for evaluating transportation impacts under CEQA from a Level of Service (“**LOS**”) standard to Vehicle Miles Traveled (“**VTM**”) standard. Thus, pursuant to CEQA Guidelines, section 15064.3(a), VMT “is the most appropriate measure of transportation impacts”.

Here, the Metro EIR, which was certified in 2007, uses the outdated LOS methodology to analyze traffic and transportation impacts. Metro PEIR at 4.12-9, *et seq.*<sup>11</sup> Thus, a subsequent EIR analyzing the Project’s VMT is necessary in order to adequately assess the Project’s transportation impacts, especially when considering that the Metro EIR found *significant and unavoidable transportation impacts* given the substantial increase in traffic. *Id.* at 4.12-54.

B. The Project Requires New Feasible Mitigation Measures to Mitigate Greenhouse Gas Impacts

The Project at hand also requires new feasible mitigation measures not specified in the PEIR such as electric vehicle (“**EV**”) parking and charging stations and solar system installation. Such measures are of particular importance given the Metro EIR failed entirely to assess greenhouse gas (“**GHG**”) impacts. Metro EIR at 4-1 – 4-2.

First, although the Project is slated to provide 898 parking stalls, the Master EIR fails to specify the new requirement that residential buildings must designate 10% of their parking spaces as EV capable, equip 25% of the parking spaces with low power level 2 EV charging receptacles, and equip 5% of the spaces with level 2 EV supply equipment. GBC 4.106.4.2.

Further, the Metro EIR fails to include a mitigation measure requiring the installation of photovoltaic and battery system, as required by section 1040.10 of the 2022 Energy

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<sup>11</sup> The EIR can be found at <https://www.santa-ana.org/metro-east-mixed-use-overlay-zone/>.

Efficiency Standards. Thus, a subsequent EIR should have been prepared to specify and incorporate these additional feasible mitigation measures.

C. The Project May Have Significant Land Use Impacts Which Were Not Analyzed in the Metro EIR

Yet another reason why a subsequent EIR should have been prepared is because the Project may have significant unanalyzed land use impacts stemming from the Project's request for a tentative tract map ("TTM"). Specifically, the Metro EIR provides that the:

project approvals include certification of the EIR for the proposed project, as well as adoption of the Overlay Zone and associated General Plan Amendment and Zone Change. This EIR is intended as a Program EIR, *and specific development proposals made in the Overlay Zone would be subject to separate environmental clearance/ review.* Metro EIR at 3-17.

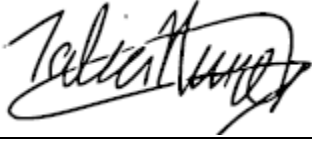
Thus, a subsequent EIR which specifically analyzes the Project's TTM request in its land use consistency analysis is necessary.

Additionally, the Project runs afoul to the General Plan since it fails to provide any affordable housing units. One policy of the General Plan is to "encourage private and commercial recreational facilities that are physically open to the public and are affordable to residents of surrounding neighborhoods". General Plan, Policy OS-1.10. Similarly, the General Plan provides that the City must "explore development and subdivision options that promote new opportunities for sustainable, livable, and affordable development." General Plan, Policy UD-2.8. As the Project at hand provides no affordable housing units, it conflicts with the General Plan. For this reason too, the City should have prepared a subsequent EIR to assess the Project's land use impacts.

## V. CONCLUSION

In sum, SMSWRCC maintains that the City should require a local workforce, that the City should impose training requirements for the Project's construction activities to prevent community spread of COVID-19 and other infectious diseases, and that the City should have prepared a subsequent EIR for the Project addressing the aforementioned concerns to be CEQA compliant. If the City has any questions, feel free to contact my office.

Sincerely,

A handwritten signature in black ink, appearing to read 'Talia Nimmer', written over a horizontal line.

Talia Nimmer  
Attorneys for Southwest Mountain  
States Regional Council of Carpenters

Attached:

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling (Exhibit A);

Air Quality and GHG Expert Paul Rosenfeld CV (Exhibit B); and

Air Quality and GHG Expert Matt Hagemann CV (Exhibit C).

## **EXHIBIT A**



Technical Consultation, Data Analysis and  
Litigation Support for the Environment

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March 8, 2021

Mitchell M. Tsai  
155 South El Molino, Suite 104  
Pasadena, CA 91101

**Subject: Local Hire Requirements and Considerations for Greenhouse Gas Modeling**

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Dear Mr. Tsai,

Soil Water Air Protection Enterprise ("SWAPE") is pleased to provide the following draft technical report explaining the significance of worker trips required for construction of land use development projects with respect to the estimation of greenhouse gas ("GHG") emissions. The report will also discuss the potential for local hire requirements to reduce the length of worker trips, and consequently, reduced or mitigate the potential GHG impacts.

### Worker Trips and Greenhouse Gas Calculations

The California Emissions Estimator Model ("CalEEMod") is a "statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects."<sup>1</sup> CalEEMod quantifies construction-related emissions associated with land use projects resulting from off-road construction equipment; on-road mobile equipment associated with workers, vendors, and hauling; fugitive dust associated with grading, demolition, truck loading, and on-road vehicles traveling along paved and unpaved roads; and architectural coating activities; and paving.<sup>2</sup>

The number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.<sup>3</sup>

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<sup>1</sup> "California Emissions Estimator Model." CAPCOA, 2017, available at: <http://www.aqmd.gov/caleemod/home>.

<sup>2</sup> "California Emissions Estimator Model." CAPCOA, 2017, available at: <http://www.aqmd.gov/caleemod/home>.

<sup>3</sup> "CalEEMod User's Guide." CAPCOA, November 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/01\\_user-39-s-guide2016-3-2\\_15november2017.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4), p. 34.

Specifically, the number and length of vehicle trips is utilized to estimate the vehicle miles travelled (“VMT”) associated with construction. Then, utilizing vehicle-class specific EMFAC 2014 emission factors, CalEEMod calculates the vehicle exhaust, evaporative, and dust emissions resulting from construction-related VMT, including personal vehicles for worker commuting.<sup>4</sup>

Specifically, in order to calculate VMT, CalEEMod multiplies the average daily trip rate by the average overall trip length (see excerpt below):

$$\text{“VMT}_d = \Sigma(\text{Average Daily Trip Rate}_i * \text{Average Overall Trip Length}_i) _n$$

Where:

$n$  = Number of land uses being modeled.”<sup>5</sup>

Furthermore, to calculate the on-road emissions associated with worker trips, CalEEMod utilizes the following equation (see excerpt below):

$$\text{“Emissions}_{\text{pollutant}} = \text{VMT} * \text{EF}_{\text{running,pollutant}}$$

Where:

$\text{Emissions}_{\text{pollutant}}$  = emissions from vehicle running for each pollutant

VMT = vehicle miles traveled

$\text{EF}_{\text{running,pollutant}}$  = emission factor for running emissions.”<sup>6</sup>

Thus, there is a direct relationship between trip length and VMT, as well as a direct relationship between VMT and vehicle running emissions. In other words, when the trip length is increased, the VMT and vehicle running emissions increase as a result. Thus, vehicle running emissions can be reduced by decreasing the average overall trip length, by way of a local hire requirement or otherwise.

## Default Worker Trip Parameters and Potential Local Hire Requirements

As previously discussed, the number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.<sup>7</sup> In order to understand how local hire requirements and associated worker trip length reductions impact GHG emissions calculations, it is important to consider the CalEEMod default worker trip parameters. CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but the California Environmental Quality Act (“CEQA”) requires that such changes be justified by substantial evidence.<sup>8</sup> The default number of construction-related worker trips is calculated by multiplying the

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<sup>4</sup> “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6), p. 14-15.

<sup>5</sup> “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6), p. 23.

<sup>6</sup> “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6), p. 15.

<sup>7</sup> “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/01\\_user-39-s-guide2016-3-2\\_15november2017.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4), p. 34.

<sup>8</sup> CalEEMod User Guide, available at: <http://www.caleemod.com/>, p. 1, 9.



number of pieces of equipment for all phases by 1.25, with the exception of worker trips required for the building construction and architectural coating phases.<sup>9</sup> Furthermore, the worker trip vehicle class is a 50/25/25 percent mix of light duty autos, light duty truck class 1 and light duty truck class 2, respectively.”<sup>10</sup> Finally, the default worker trip length is consistent with the length of the operational home-to-work vehicle trips.<sup>11</sup> The operational home-to-work vehicle trip lengths are:

“[B]ased on the location and urbanization selected on the project characteristic screen. These values were supplied by the air districts or use a default average for the state. Each district (or county) also assigns trip lengths for urban and rural settings” (emphasis added).<sup>12</sup>

Thus, the default worker trip length is based on the location and urbanization level selected by the User when modeling emissions. The below table shows the CalEEMod default rural and urban worker trip lengths by air basin (see excerpt below and Attachment A).<sup>13</sup>

| Worker Trip Length by Air Basin |               |               |
|---------------------------------|---------------|---------------|
| Air Basin                       | Rural (miles) | Urban (miles) |
| Great Basin Valleys             | 16.8          | 10.8          |
| Lake County                     | 16.8          | 10.8          |
| Lake Tahoe                      | 16.8          | 10.8          |
| Mojave Desert                   | 16.8          | 10.8          |
| Mountain Counties               | 16.8          | 10.8          |
| North Central Coast             | 17.1          | 12.3          |
| North Coast                     | 16.8          | 10.8          |
| Northeast Plateau               | 16.8          | 10.8          |
| Sacramento Valley               | 16.8          | 10.8          |
| Salton Sea                      | 14.6          | 11            |
| San Diego                       | 16.8          | 10.8          |
| San Francisco Bay Area          | 10.8          | 10.8          |
| San Joaquin Valley              | 16.8          | 10.8          |
| South Central Coast             | 16.8          | 10.8          |
| South Coast                     | 19.8          | 14.7          |
| <b>Average</b>                  | <b>16.47</b>  | <b>11.17</b>  |
| <b>Minimum</b>                  | <b>10.80</b>  | <b>10.80</b>  |
| <b>Maximum</b>                  | <b>19.80</b>  | <b>14.70</b>  |
| <b>Range</b>                    | <b>9.00</b>   | <b>3.90</b>   |

<sup>9</sup> “CalEEMod User’s Guide.” CAPCOA, November 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/01\\_user-39-s-guide2016-3-2\\_15november2017.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4), p. 34.

<sup>10</sup> “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6), p. 15.

<sup>11</sup> “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6), p. 14.

<sup>12</sup> “Appendix A Calculation Details for CalEEMod.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/02\\_appendix-a2016-3-2.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6), p. 21.

<sup>13</sup> “Appendix D Default Data Tables.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/05\\_appendix-d2016-3-2.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4), p. D-84 – D-86.

As demonstrated above, default rural worker trip lengths for air basins in California vary from 10.8- to 19.8- miles, with an average of 16.47 miles. Furthermore, default urban worker trip lengths vary from 10.8- to 14.7- miles, with an average of 11.17 miles. Thus, while default worker trip lengths vary by location, default urban worker trip lengths tend to be shorter in length. Based on these trends evident in the CalEEMod default worker trip lengths, we can reasonably assume that the efficacy of a local hire requirement is especially dependent upon the urbanization of the project site, as well as the project location.

### Practical Application of a Local Hire Requirement and Associated Impact

To provide an example of the potential impact of a local hire provision on construction-related GHG emissions, we estimated the significance of a local hire provision for the Village South Specific Plan (“Project”) located in the City of Claremont (“City”). The Project proposed to construct 1,000 residential units, 100,000-SF of retail space, 45,000-SF of office space, as well as a 50-room hotel, on the 24-acre site. The Project location is classified as Urban and lies within the Los Angeles-South Coast County. As a result, the Project has a default worker trip length of 14.7 miles.<sup>14</sup> In an effort to evaluate the potential for a local hire provision to reduce the Project’s construction-related GHG emissions, we prepared an updated model, reducing all worker trip lengths to 10 miles (see Attachment B). Our analysis estimates that if a local hire provision with a 10-mile radius were to be implemented, the GHG emissions associated with Project construction would decrease by approximately 17% (see table below and Attachment C).

| Local Hire Provision Net Change                                  |            |
|--|------------|
| <b>Without Local Hire Provision</b>                              |            |
| Total Construction GHG Emissions (MT CO <sub>2</sub> e)          | 3,623      |
| Amortized Construction GHG Emissions (MT CO <sub>2</sub> e/year) | 120.77     |
| <b>With Local Hire Provision</b>                                 |            |
| Total Construction GHG Emissions (MT CO <sub>2</sub> e)          | 3,024      |
| Amortized Construction GHG Emissions (MT CO <sub>2</sub> e/year) | 100.80     |
| <b>% Decrease in Construction-related GHG Emissions</b>          | <b>17%</b> |

As demonstrated above, by implementing a local hire provision requiring 10 mile worker trip lengths, the Project could reduce potential GHG emissions associated with construction worker trips. More broadly, any local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

This serves as an example of the potential impacts of local hire requirements on estimated project-level GHG emissions, though it does not indicate that local hire requirements would result in reduced construction-related GHG emission for all projects. As previously described, the significance of a local hire requirement depends on the worker trip length enforced and the default worker trip length for the project’s urbanization level and location.

<sup>14</sup> “Appendix D Default Data Tables.” CAPCOA, October 2017, available at: [http://www.aqmd.gov/docs/default-source/caleemod/05\\_appendix-d2016-3-2.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4), p. D-85.

## Disclaimer

SWAPE has received limited discovery. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,

A handwritten signature in blue ink, appearing to read "M Hagemann".

Matt Hagemann, P.G., C.Hg.

A handwritten signature in blue ink, appearing to read "Paul Rosenfeld".

Paul E. Rosenfeld, Ph.D.

## Attachment A

| <b>Location Type</b> | <b>Location Name</b> | <b>Rural H-W<br/>(miles)</b> | <b>Urban H-W<br/>(miles)</b> |
|----------------------|----------------------|------------------------------|------------------------------|
| Air Basin            | Great Basin          | 16.8                         | 10.8                         |
| Air Basin            | Lake County          | 16.8                         | 10.8                         |
| Air Basin            | Lake Tahoe           | 16.8                         | 10.8                         |
| Air Basin            | Mojave Desert        | 16.8                         | 10.8                         |
| Air Basin            | Mountain             | 16.8                         | 10.8                         |
| Air Basin            | North Central        | 17.1                         | 12.3                         |
| Air Basin            | North Coast          | 16.8                         | 10.8                         |
| Air Basin            | Northeast            | 16.8                         | 10.8                         |
| Air Basin            | Sacramento           | 16.8                         | 10.8                         |
| Air Basin            | Salton Sea           | 14.6                         | 11                           |
| Air Basin            | San Diego            | 16.8                         | 10.8                         |
| Air Basin            | San Francisco        | 10.8                         | 10.8                         |
| Air Basin            | San Joaquin          | 16.8                         | 10.8                         |
| Air Basin            | South Central        | 16.8                         | 10.8                         |
| Air Basin            | South Coast          | 19.8                         | 14.7                         |
| Air District         | Amador County        | 16.8                         | 10.8                         |
| Air District         | Antelope Valley      | 16.8                         | 10.8                         |
| Air District         | Bay Area AQMD        | 10.8                         | 10.8                         |
| Air District         | Butte County         | 12.54                        | 12.54                        |
| Air District         | Calaveras            | 16.8                         | 10.8                         |
| Air District         | Colusa County        | 16.8                         | 10.8                         |
| Air District         | El Dorado            | 16.8                         | 10.8                         |
| Air District         | Feather River        | 16.8                         | 10.8                         |
| Air District         | Glenn County         | 16.8                         | 10.8                         |
| Air District         | Great Basin          | 16.8                         | 10.8                         |
| Air District         | Imperial County      | 10.2                         | 7.3                          |
| Air District         | Kern County          | 16.8                         | 10.8                         |
| Air District         | Lake County          | 16.8                         | 10.8                         |
| Air District         | Lassen County        | 16.8                         | 10.8                         |
| Air District         | Mariposa             | 16.8                         | 10.8                         |
| Air District         | Mendocino            | 16.8                         | 10.8                         |
| Air District         | Modoc County         | 16.8                         | 10.8                         |
| Air District         | Mojave Desert        | 16.8                         | 10.8                         |
| Air District         | Monterey Bay         | 16.8                         | 10.8                         |
| Air District         | North Coast          | 16.8                         | 10.8                         |
| Air District         | Northern Sierra      | 16.8                         | 10.8                         |
| Air District         | Northern             | 16.8                         | 10.8                         |
| Air District         | Placer County        | 16.8                         | 10.8                         |
| Air District         | Sacramento           | 15                           | 10                           |

|              |                 |       |       |
|--------------|-----------------|-------|-------|
| Air District | San Diego       | 16.8  | 10.8  |
| Air District | San Joaquin     | 16.8  | 10.8  |
| Air District | San Luis Obispo | 13    | 13    |
| Air District | Santa Barbara   | 8.3   | 8.3   |
| Air District | Shasta County   | 16.8  | 10.8  |
| Air District | Siskiyou County | 16.8  | 10.8  |
| Air District | South Coast     | 19.8  | 14.7  |
| Air District | Tehama County   | 16.8  | 10.8  |
| Air District | Tuolumne        | 16.8  | 10.8  |
| Air District | Ventura County  | 16.8  | 10.8  |
| Air District | Yolo/Solano     | 15    | 10    |
| County       | Alameda         | 10.8  | 10.8  |
| County       | Alpine          | 16.8  | 10.8  |
| County       | Amador          | 16.8  | 10.8  |
| County       | Butte           | 12.54 | 12.54 |
| County       | Calaveras       | 16.8  | 10.8  |
| County       | Colusa          | 16.8  | 10.8  |
| County       | Contra Costa    | 10.8  | 10.8  |
| County       | Del Norte       | 16.8  | 10.8  |
| County       | El Dorado-Lake  | 16.8  | 10.8  |
| County       | El Dorado-      | 16.8  | 10.8  |
| County       | Fresno          | 16.8  | 10.8  |
| County       | Glenn           | 16.8  | 10.8  |
| County       | Humboldt        | 16.8  | 10.8  |
| County       | Imperial        | 10.2  | 7.3   |
| County       | Inyo            | 16.8  | 10.8  |
| County       | Kern-Mojave     | 16.8  | 10.8  |
| County       | Kern-San        | 16.8  | 10.8  |
| County       | Kings           | 16.8  | 10.8  |
| County       | Lake            | 16.8  | 10.8  |
| County       | Lassen          | 16.8  | 10.8  |
| County       | Los Angeles-    | 16.8  | 10.8  |
| County       | Los Angeles-    | 19.8  | 14.7  |
| County       | Madera          | 16.8  | 10.8  |
| County       | Marin           | 10.8  | 10.8  |
| County       | Mariposa        | 16.8  | 10.8  |
| County       | Mendocino-      | 16.8  | 10.8  |
| County       | Mendocino-      | 16.8  | 10.8  |
| County       | Mendocino-      | 16.8  | 10.8  |
| County       | Mendocino-      | 16.8  | 10.8  |
| County       | Merced          | 16.8  | 10.8  |
| County       | Modoc           | 16.8  | 10.8  |
| County       | Mono            | 16.8  | 10.8  |
| County       | Monterey        | 16.8  | 10.8  |
| County       | Napa            | 10.8  | 10.8  |

|           |                  |      |      |
|-----------|------------------|------|------|
| County    | Nevada           | 16.8 | 10.8 |
| County    | Orange           | 19.8 | 14.7 |
| County    | Placer-Lake      | 16.8 | 10.8 |
| County    | Placer-Mountain  | 16.8 | 10.8 |
| County    | Placer-          | 16.8 | 10.8 |
| County    | Plumas           | 16.8 | 10.8 |
| County    | Riverside-       | 16.8 | 10.8 |
| County    | Riverside-       | 19.8 | 14.7 |
| County    | Riverside-Salton | 14.6 | 11   |
| County    | Riverside-South  | 19.8 | 14.7 |
| County    | Sacramento       | 15   | 10   |
| County    | San Benito       | 16.8 | 10.8 |
| County    | San Bernardino-  | 16.8 | 10.8 |
| County    | San Bernardino-  | 19.8 | 14.7 |
| County    | San Diego        | 16.8 | 10.8 |
| County    | San Francisco    | 10.8 | 10.8 |
| County    | San Joaquin      | 16.8 | 10.8 |
| County    | San Luis Obispo  | 13   | 13   |
| County    | San Mateo        | 10.8 | 10.8 |
| County    | Santa Barbara-   | 8.3  | 8.3  |
| County    | Santa Barbara-   | 8.3  | 8.3  |
| County    | Santa Clara      | 10.8 | 10.8 |
| County    | Santa Cruz       | 16.8 | 10.8 |
| County    | Shasta           | 16.8 | 10.8 |
| County    | Sierra           | 16.8 | 10.8 |
| County    | Siskiyou         | 16.8 | 10.8 |
| County    | Solano-          | 15   | 10   |
| County    | Solano-San       | 16.8 | 10.8 |
| County    | Sonoma-North     | 16.8 | 10.8 |
| County    | Sonoma-San       | 10.8 | 10.8 |
| County    | Stanislaus       | 16.8 | 10.8 |
| County    | Sutter           | 16.8 | 10.8 |
| County    | Tehama           | 16.8 | 10.8 |
| County    | Trinity          | 16.8 | 10.8 |
| County    | Tulare           | 16.8 | 10.8 |
| County    | Tuolumne         | 16.8 | 10.8 |
| County    | Ventura          | 16.8 | 10.8 |
| County    | Yolo             | 15   | 10   |
| County    | Yuba             | 16.8 | 10.8 |
| Statewide | Statewide        | 16.8 | 10.8 |

| Worker Trip Length by Air Basin |               |               |
|---------------------------------|---------------|---------------|
| Air Basin                       | Rural (miles) | Urban (miles) |
| Great Basin Valleys             | 16.8          | 10.8          |
| Lake County                     | 16.8          | 10.8          |
| Lake Tahoe                      | 16.8          | 10.8          |
| Mojave Desert                   | 16.8          | 10.8          |
| Mountain Counties               | 16.8          | 10.8          |
| North Central Coast             | 17.1          | 12.3          |
| North Coast                     | 16.8          | 10.8          |
| Northeast Plateau               | 16.8          | 10.8          |
| Sacramento Valley               | 16.8          | 10.8          |
| Salton Sea                      | 14.6          | 11            |
| San Diego                       | 16.8          | 10.8          |
| San Francisco Bay Area          | 10.8          | 10.8          |
| San Joaquin Valley              | 16.8          | 10.8          |
| South Central Coast             | 16.8          | 10.8          |
| South Coast                     | 19.8          | 14.7          |
| <b>Average</b>                  | <b>16.47</b>  | <b>11.17</b>  |
| <b>Minimum</b>                  | <b>10.80</b>  | <b>10.80</b>  |
| <b>Maximum</b>                  | <b>19.80</b>  | <b>14.70</b>  |
| <b>Range</b>                    | <b>9.00</b>   | <b>3.90</b>   |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

## Village South Specific Plan (Proposed)

### Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 45.00  | 1000sqft      | 1.03        | 45,000.00          | 0          |
| High Turnover (Sit Down Restaurant) | 36.00  | 1000sqft      | 0.83        | 36,000.00          | 0          |
| Hotel                               | 50.00  | Room          | 1.67        | 72,600.00          | 0          |
| Quality Restaurant                  | 8.00   | 1000sqft      | 0.18        | 8,000.00           | 0          |
| Apartments Low Rise                 | 25.00  | Dwelling Unit | 1.56        | 25,000.00          | 72         |
| Apartments Mid Rise                 | 975.00 | Dwelling Unit | 25.66       | 975,000.00         | 2789       |
| Regional Shopping Center            | 56.00  | 1000sqft      | 1.29        | 56,000.00          | 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>          | 2028  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

| Table Name      | Column Name       | Default Value | New Value |
|-----------------|-------------------|---------------|-----------|
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | NumberWood        | 1.25          | 0.00      |
| tblFireplaces   | NumberWood        | 48.75         | 0.00      |
| tblVehicleTrips | ST_TR             | 7.16          | 6.17      |
| tblVehicleTrips | ST_TR             | 6.39          | 3.87      |
| tblVehicleTrips | ST_TR             | 2.46          | 1.39      |
| tblVehicleTrips | ST_TR             | 158.37        | 79.82     |
| tblVehicleTrips | ST_TR             | 8.19          | 3.75      |
| tblVehicleTrips | ST_TR             | 94.36         | 63.99     |
| tblVehicleTrips | ST_TR             | 49.97         | 10.74     |
| tblVehicleTrips | SU_TR             | 6.07          | 6.16      |
| tblVehicleTrips | SU_TR             | 5.86          | 4.18      |
| tblVehicleTrips | SU_TR             | 1.05          | 0.69      |
| tblVehicleTrips | SU_TR             | 131.84        | 78.27     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| tblVehicleTrips | SU_TR              | 5.95   | 3.20  |
| tblVehicleTrips | SU_TR              | 72.16  | 57.65 |
| tblVehicleTrips | SU_TR              | 25.24  | 6.39  |
| tblVehicleTrips | WD_TR              | 6.59   | 5.83  |
| tblVehicleTrips | WD_TR              | 6.65   | 4.13  |
| tblVehicleTrips | WD_TR              | 11.03  | 6.41  |
| tblVehicleTrips | WD_TR              | 127.15 | 65.80 |
| tblVehicleTrips | WD_TR              | 8.17   | 3.84  |
| tblVehicleTrips | WD_TR              | 89.95  | 62.64 |
| tblVehicleTrips | WD_TR              | 42.70  | 9.43  |
| tblWoodstoves   | NumberCatalytic    | 1.25   | 0.00  |
| tblWoodstoves   | NumberCatalytic    | 48.75  | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 1.25   | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 48.75  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |

## 2.0 Emissions Summary

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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**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    | 0.1713  | 1.8242 | 1.1662 | 2.4000e-003 | 0.4169        | 0.0817       | 0.4986     | 0.1795         | 0.0754        | 0.2549      | 0.0000   | 213.1969   | 213.1969   | 0.0601      | 0.0000 | 214.6993   |
| 2022    | 0.6904  | 4.1142 | 6.1625 | 0.0189      | 1.3058        | 0.1201       | 1.4259     | 0.3460         | 0.1128        | 0.4588      | 0.0000   | 1,721.6826 | 1,721.6826 | 0.1294      | 0.0000 | 1,724.9187 |
| 2023    | 0.6148  | 3.3649 | 5.6747 | 0.0178      | 1.1963        | 0.0996       | 1.2959     | 0.3203         | 0.0935        | 0.4138      | 0.0000   | 1,627.5295 | 1,627.5295 | 0.1185      | 0.0000 | 1,630.4925 |
| 2024    | 4.1619  | 0.1335 | 0.2810 | 5.9000e-004 | 0.0325        | 6.4700e-003  | 0.0390     | 8.6300e-003    | 6.0400e-003   | 0.0147      | 0.0000   | 52.9078    | 52.9078    | 8.0200e-003 | 0.0000 | 53.1082    |
| Maximum | 4.1619  | 4.1142 | 6.1625 | 0.0189      | 1.3058        | 0.1201       | 1.4259     | 0.3460         | 0.1128        | 0.4588      | 0.0000   | 1,721.6826 | 1,721.6826 | 0.1294      | 0.0000 | 1,724.9187 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**2.1 Overall Construction****Mitigated Construction**

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |        |            |
| 2021    | 0.1713  | 1.8242 | 1.1662 | 2.4000e-003 | 0.4169        | 0.0817       | 0.4986     | 0.1795         | 0.0754        | 0.2549      | 0.0000   | 213.1967   | 213.1967   | 0.0601      | 0.0000 | 214.6991   |
| 2022    | 0.6904  | 4.1142 | 6.1625 | 0.0189      | 1.3058        | 0.1201       | 1.4259     | 0.3460         | 0.1128        | 0.4588      | 0.0000   | 1,721.6823 | 1,721.6823 | 0.1294      | 0.0000 | 1,724.9183 |
| 2023    | 0.6148  | 3.3648 | 5.6747 | 0.0178      | 1.1963        | 0.0996       | 1.2959     | 0.3203         | 0.0935        | 0.4138      | 0.0000   | 1,627.5291 | 1,627.5291 | 0.1185      | 0.0000 | 1,630.4921 |
| 2024    | 4.1619  | 0.1335 | 0.2810 | 5.9000e-004 | 0.0325        | 6.4700e-003  | 0.0390     | 8.6300e-003    | 6.0400e-003   | 0.0147      | 0.0000   | 52.9077    | 52.9077    | 8.0200e-003 | 0.0000 | 53.1082    |
| Maximum | 4.1619  | 4.1142 | 6.1625 | 0.0189      | 1.3058        | 0.1201       | 1.4259     | 0.3460         | 0.1128        | 0.4588      | 0.0000   | 1,721.6823 | 1,721.6823 | 0.1294      | 0.0000 | 1,724.9183 |

|                   | ROG  | NOx  | CO   | SO2  | 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 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1       | 9-1-2021   | 11-30-2021 | 1.4103                                       | 1.4103                                     |
| 2       | 12-1-2021  | 2-28-2022  | 1.3613                                       | 1.3613                                     |
| 3       | 3-1-2022   | 5-31-2022  | 1.1985                                       | 1.1985                                     |
| 4       | 6-1-2022   | 8-31-2022  | 1.1921                                       | 1.1921                                     |
| 5       | 9-1-2022   | 11-30-2022 | 1.1918                                       | 1.1918                                     |
| 6       | 12-1-2022  | 2-28-2023  | 1.0774                                       | 1.0774                                     |
| 7       | 3-1-2023   | 5-31-2023  | 1.0320                                       | 1.0320                                     |
| 8       | 6-1-2023   | 8-31-2023  | 1.0260                                       | 1.0260                                     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

|    |           |            |        |        |
|----|-----------|------------|--------|--------|
| 9  | 9-1-2023  | 11-30-2023 | 1.0265 | 1.0265 |
| 10 | 12-1-2023 | 2-29-2024  | 2.8857 | 2.8857 |
| 11 | 3-1-2024  | 5-31-2024  | 1.6207 | 1.6207 |
|    |           | Highest    | 2.8857 | 2.8857 |

## 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         | 5.1437        | 0.2950        | 10.3804        | 1.6700e-003   |               | 0.0714        | 0.0714        |                | 0.0714        | 0.0714        | 0.0000          | 220.9670           | 220.9670           | 0.0201         | 3.7400e-003   | 222.5835           |
| Energy       | 0.1398        | 1.2312        | 0.7770         | 7.6200e-003   |               | 0.0966        | 0.0966        |                | 0.0966        | 0.0966        | 0.0000          | 3,896.0732         | 3,896.0732         | 0.1303         | 0.0468        | 3,913.2833         |
| Mobile       | 1.5857        | 7.9962        | 19.1834        | 0.0821        | 7.7979        | 0.0580        | 7.8559        | 2.0895         | 0.0539        | 2.1434        | 0.0000          | 7,620.4986         | 7,620.4986         | 0.3407         | 0.0000        | 7,629.0162         |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 207.8079        | 0.0000             | 207.8079           | 12.2811        | 0.0000        | 514.8354           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 29.1632         | 556.6420           | 585.8052           | 3.0183         | 0.0755        | 683.7567           |
| <b>Total</b> | <b>6.8692</b> | <b>9.5223</b> | <b>30.3407</b> | <b>0.0914</b> | <b>7.7979</b> | <b>0.2260</b> | <b>8.0240</b> | <b>2.0895</b>  | <b>0.2219</b> | <b>2.3114</b> | <b>236.9712</b> | <b>12,294.1807</b> | <b>12,531.1519</b> | <b>15.7904</b> | <b>0.1260</b> | <b>12,963.4751</b> |

## Village South Specific Plan (Proposed) - 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         | 5.1437        | 0.2950        | 10.3804        | 1.6700e-003   |               | 0.0714        | 0.0714        |                | 0.0714        | 0.0714        | 0.0000          | 220.9670           | 220.9670           | 0.0201         | 3.7400e-003   | 222.5835           |
| Energy       | 0.1398        | 1.2312        | 0.7770         | 7.6200e-003   |               | 0.0966        | 0.0966        |                | 0.0966        | 0.0966        | 0.0000          | 3,896.0732         | 3,896.0732         | 0.1303         | 0.0468        | 3,913.2833         |
| Mobile       | 1.5857        | 7.9962        | 19.1834        | 0.0821        | 7.7979        | 0.0580        | 7.8559        | 2.0895         | 0.0539        | 2.1434        | 0.0000          | 7,620.4986         | 7,620.4986         | 0.3407         | 0.0000        | 7,629.0162         |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 207.8079        | 0.0000             | 207.8079           | 12.2811        | 0.0000        | 514.8354           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 29.1632         | 556.6420           | 585.8052           | 3.0183         | 0.0755        | 683.7567           |
| <b>Total</b> | <b>6.8692</b> | <b>9.5223</b> | <b>30.3407</b> | <b>0.0914</b> | <b>7.7979</b> | <b>0.2260</b> | <b>8.0240</b> | <b>2.0895</b>  | <b>0.2219</b> | <b>2.3114</b> | <b>236.9712</b> | <b>12,294.1807</b> | <b>12,531.1519</b> | <b>15.7904</b> | <b>0.1260</b> | <b>12,963.4751</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>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

**3.0 Construction Detail****Construction Phase**

## Village South Specific Plan (Proposed) - 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            | 9/1/2021   | 10/12/2021 | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 10/13/2021 | 11/9/2021  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 11/10/2021 | 1/11/2022  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 1/12/2022  | 12/12/2023 | 5             | 500      |                   |
| 5            | Paving                | Paving                | 12/13/2023 | 1/30/2024  | 5             | 35       |                   |
| 6            | Architectural Coating | Architectural Coating | 1/31/2024  | 3/19/2024  | 5             | 35       |                   |

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

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 0**

**Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Village South Specific Plan (Proposed) - 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      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT



## Village South Specific Plan (Proposed) - 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               | 458.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 801.00             | 143.00             | 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                       | 160.00             | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## 3.1 Mitigation Measures Construction

## 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 |               |               |               |                    | 0.0496        | 0.0000        | 0.0496        | 7.5100e-003        | 0.0000        | 7.5100e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0475        | 0.4716        | 0.3235        | 5.8000e-004        |               | 0.0233        | 0.0233        |                    | 0.0216        | 0.0216        | 0.0000        | 51.0012        | 51.0012        | 0.0144        | 0.0000        | 51.3601        |
| <b>Total</b>  | <b>0.0475</b> | <b>0.4716</b> | <b>0.3235</b> | <b>5.8000e-004</b> | <b>0.0496</b> | <b>0.0233</b> | <b>0.0729</b> | <b>7.5100e-003</b> | <b>0.0216</b> | <b>0.0291</b> | <b>0.0000</b> | <b>51.0012</b> | <b>51.0012</b> | <b>0.0144</b> | <b>0.0000</b> | <b>51.3601</b> |

## Village South Specific Plan (Proposed) - 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      | 1.9300e-003        | 0.0634        | 0.0148        | 1.8000e-004        | 3.9400e-003        | 1.9000e-004        | 4.1300e-003        | 1.0800e-003        | 1.8000e-004        | 1.2600e-003        | 0.0000        | 17.4566        | 17.4566        | 1.2100e-003        | 0.0000        | 17.4869        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 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>2.9000e-003</b> | <b>0.0641</b> | <b>0.0233</b> | <b>2.0000e-004</b> | <b>6.4100e-003</b> | <b>2.1000e-004</b> | <b>6.6200e-003</b> | <b>1.7300e-003</b> | <b>2.0000e-004</b> | <b>1.9300e-003</b> | <b>0.0000</b> | <b>19.6816</b> | <b>19.6816</b> | <b>1.2800e-003</b> | <b>0.0000</b> | <b>19.7136</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 |               |               |               |                    | 0.0496        | 0.0000        | 0.0496        | 7.5100e-003        | 0.0000        | 7.5100e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0475        | 0.4716        | 0.3235        | 5.8000e-004        |               | 0.0233        | 0.0233        |                    | 0.0216        | 0.0216        | 0.0000        | 51.0011        | 51.0011        | 0.0144        | 0.0000        | 51.3600        |
| <b>Total</b>  | <b>0.0475</b> | <b>0.4716</b> | <b>0.3235</b> | <b>5.8000e-004</b> | <b>0.0496</b> | <b>0.0233</b> | <b>0.0729</b> | <b>7.5100e-003</b> | <b>0.0216</b> | <b>0.0291</b> | <b>0.0000</b> | <b>51.0011</b> | <b>51.0011</b> | <b>0.0144</b> | <b>0.0000</b> | <b>51.3600</b> |

## Village South Specific Plan (Proposed) - 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      | 1.9300e-003        | 0.0634        | 0.0148        | 1.8000e-004        | 3.9400e-003        | 1.9000e-004        | 4.1300e-003        | 1.0800e-003        | 1.8000e-004        | 1.2600e-003        | 0.0000        | 17.4566        | 17.4566        | 1.2100e-003        | 0.0000        | 17.4869        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 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>2.9000e-003</b> | <b>0.0641</b> | <b>0.0233</b> | <b>2.0000e-004</b> | <b>6.4100e-003</b> | <b>2.1000e-004</b> | <b>6.6200e-003</b> | <b>1.7300e-003</b> | <b>2.0000e-004</b> | <b>1.9300e-003</b> | <b>0.0000</b> | <b>19.6816</b> | <b>19.6816</b> | <b>1.2800e-003</b> | <b>0.0000</b> | <b>19.7136</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 |               |               |               |                    | 0.1807        | 0.0000        | 0.1807        | 0.0993         | 0.0000        | 0.0993        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0389        | 0.4050        | 0.2115        | 3.8000e-004        |               | 0.0204        | 0.0204        |                | 0.0188        | 0.0188        | 0.0000        | 33.4357        | 33.4357        | 0.0108        | 0.0000        | 33.7061        |
| <b>Total</b>  | <b>0.0389</b> | <b>0.4050</b> | <b>0.2115</b> | <b>3.8000e-004</b> | <b>0.1807</b> | <b>0.0204</b> | <b>0.2011</b> | <b>0.0993</b>  | <b>0.0188</b> | <b>0.1181</b> | <b>0.0000</b> | <b>33.4357</b> | <b>33.4357</b> | <b>0.0108</b> | <b>0.0000</b> | <b>33.7061</b> |

## Village South Specific Plan (Proposed) - 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       | 7.7000e-004        | 6.0000e-004        | 6.8100e-003        | 2.0000e-005        | 1.9700e-003        | 2.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7801        | 1.7801        | 5.0000e-005        | 0.0000        | 1.7814        |
| <b>Total</b> | <b>7.7000e-004</b> | <b>6.0000e-004</b> | <b>6.8100e-003</b> | <b>2.0000e-005</b> | <b>1.9700e-003</b> | <b>2.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7801</b> | <b>1.7801</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.7814</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 |               |               |               |                    | 0.1807        | 0.0000        | 0.1807        | 0.0993         | 0.0000        | 0.0993        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0389        | 0.4050        | 0.2115        | 3.8000e-004        |               | 0.0204        | 0.0204        |                | 0.0188        | 0.0188        | 0.0000        | 33.4357        | 33.4357        | 0.0108        | 0.0000        | 33.7060        |
| <b>Total</b>  | <b>0.0389</b> | <b>0.4050</b> | <b>0.2115</b> | <b>3.8000e-004</b> | <b>0.1807</b> | <b>0.0204</b> | <b>0.2011</b> | <b>0.0993</b>  | <b>0.0188</b> | <b>0.1181</b> | <b>0.0000</b> | <b>33.4357</b> | <b>33.4357</b> | <b>0.0108</b> | <b>0.0000</b> | <b>33.7060</b> |

## Village South Specific Plan (Proposed) - 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       | 7.7000e-004        | 6.0000e-004        | 6.8100e-003        | 2.0000e-005        | 1.9700e-003        | 2.0000e-005        | 1.9900e-003        | 5.2000e-004        | 1.0000e-005        | 5.4000e-004        | 0.0000        | 1.7801        | 1.7801        | 5.0000e-005        | 0.0000        | 1.7814        |
| <b>Total</b> | <b>7.7000e-004</b> | <b>6.0000e-004</b> | <b>6.8100e-003</b> | <b>2.0000e-005</b> | <b>1.9700e-003</b> | <b>2.0000e-005</b> | <b>1.9900e-003</b> | <b>5.2000e-004</b> | <b>1.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>1.7801</b> | <b>1.7801</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>1.7814</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 |               |               |               |                    | 0.1741        | 0.0000        | 0.1741        | 0.0693         | 0.0000        | 0.0693        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0796        | 0.8816        | 0.5867        | 1.1800e-003        |               | 0.0377        | 0.0377        |                | 0.0347        | 0.0347        | 0.0000        | 103.5405        | 103.5405        | 0.0335        | 0.0000        | 104.3776        |
| <b>Total</b>  | <b>0.0796</b> | <b>0.8816</b> | <b>0.5867</b> | <b>1.1800e-003</b> | <b>0.1741</b> | <b>0.0377</b> | <b>0.2118</b> | <b>0.0693</b>  | <b>0.0347</b> | <b>0.1040</b> | <b>0.0000</b> | <b>103.5405</b> | <b>103.5405</b> | <b>0.0335</b> | <b>0.0000</b> | <b>104.3776</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.6400e-003        | 1.2700e-003        | 0.0144        | 4.0000e-005        | 4.1600e-003        | 3.0000e-005        | 4.2000e-003        | 1.1100e-003        | 3.0000e-005        | 1.1400e-003        | 0.0000        | 3.7579        | 3.7579        | 1.1000e-004        | 0.0000        | 3.7607        |
| <b>Total</b> | <b>1.6400e-003</b> | <b>1.2700e-003</b> | <b>0.0144</b> | <b>4.0000e-005</b> | <b>4.1600e-003</b> | <b>3.0000e-005</b> | <b>4.2000e-003</b> | <b>1.1100e-003</b> | <b>3.0000e-005</b> | <b>1.1400e-003</b> | <b>0.0000</b> | <b>3.7579</b> | <b>3.7579</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>3.7607</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 |               |               |               |                    | 0.1741        | 0.0000        | 0.1741        | 0.0693         | 0.0000        | 0.0693        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0796        | 0.8816        | 0.5867        | 1.1800e-003        |               | 0.0377        | 0.0377        |                | 0.0347        | 0.0347        | 0.0000        | 103.5403        | 103.5403        | 0.0335        | 0.0000        | 104.3775        |
| <b>Total</b>  | <b>0.0796</b> | <b>0.8816</b> | <b>0.5867</b> | <b>1.1800e-003</b> | <b>0.1741</b> | <b>0.0377</b> | <b>0.2118</b> | <b>0.0693</b>  | <b>0.0347</b> | <b>0.1040</b> | <b>0.0000</b> | <b>103.5403</b> | <b>103.5403</b> | <b>0.0335</b> | <b>0.0000</b> | <b>104.3775</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.6400e-003        | 1.2700e-003        | 0.0144        | 4.0000e-005        | 4.1600e-003        | 3.0000e-005        | 4.2000e-003        | 1.1100e-003        | 3.0000e-005        | 1.1400e-003        | 0.0000        | 3.7579        | 3.7579        | 1.1000e-004        | 0.0000        | 3.7607        |
| <b>Total</b> | <b>1.6400e-003</b> | <b>1.2700e-003</b> | <b>0.0144</b> | <b>4.0000e-005</b> | <b>4.1600e-003</b> | <b>3.0000e-005</b> | <b>4.2000e-003</b> | <b>1.1100e-003</b> | <b>3.0000e-005</b> | <b>1.1400e-003</b> | <b>0.0000</b> | <b>3.7579</b> | <b>3.7579</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>3.7607</b> |

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

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0807        | 0.0000             | 0.0807        | 0.0180         | 0.0000             | 0.0180        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0127        | 0.1360        | 0.1017        | 2.2000e-004        |               | 5.7200e-003        | 5.7200e-003   |                | 5.2600e-003        | 5.2600e-003   | 0.0000        | 19.0871        | 19.0871        | 6.1700e-003        | 0.0000        | 19.2414        |
| <b>Total</b>  | <b>0.0127</b> | <b>0.1360</b> | <b>0.1017</b> | <b>2.2000e-004</b> | <b>0.0807</b> | <b>5.7200e-003</b> | <b>0.0865</b> | <b>0.0180</b>  | <b>5.2600e-003</b> | <b>0.0233</b> | <b>0.0000</b> | <b>19.0871</b> | <b>19.0871</b> | <b>6.1700e-003</b> | <b>0.0000</b> | <b>19.2414</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.8000e-004        | 2.1000e-004        | 2.4400e-003        | 1.0000e-005        | 7.7000e-004        | 1.0000e-005        | 7.7000e-004        | 2.0000e-004        | 1.0000e-005        | 2.1000e-004        | 0.0000        | 0.6679        | 0.6679        | 2.0000e-005        | 0.0000        | 0.6684        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>2.1000e-004</b> | <b>2.4400e-003</b> | <b>1.0000e-005</b> | <b>7.7000e-004</b> | <b>1.0000e-005</b> | <b>7.7000e-004</b> | <b>2.0000e-004</b> | <b>1.0000e-005</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>0.6679</b> | <b>0.6679</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6684</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 |               |               |               |                    | 0.0807        | 0.0000             | 0.0807        | 0.0180         | 0.0000             | 0.0180        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0127        | 0.1360        | 0.1017        | 2.2000e-004        |               | 5.7200e-003        | 5.7200e-003   |                | 5.2600e-003        | 5.2600e-003   | 0.0000        | 19.0871        | 19.0871        | 6.1700e-003        | 0.0000        | 19.2414        |
| <b>Total</b>  | <b>0.0127</b> | <b>0.1360</b> | <b>0.1017</b> | <b>2.2000e-004</b> | <b>0.0807</b> | <b>5.7200e-003</b> | <b>0.0865</b> | <b>0.0180</b>  | <b>5.2600e-003</b> | <b>0.0233</b> | <b>0.0000</b> | <b>19.0871</b> | <b>19.0871</b> | <b>6.1700e-003</b> | <b>0.0000</b> | <b>19.2414</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.8000e-004        | 2.1000e-004        | 2.4400e-003        | 1.0000e-005        | 7.7000e-004        | 1.0000e-005        | 7.7000e-004        | 2.0000e-004        | 1.0000e-005        | 2.1000e-004        | 0.0000        | 0.6679        | 0.6679        | 2.0000e-005        | 0.0000        | 0.6684        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>2.1000e-004</b> | <b>2.4400e-003</b> | <b>1.0000e-005</b> | <b>7.7000e-004</b> | <b>1.0000e-005</b> | <b>7.7000e-004</b> | <b>2.0000e-004</b> | <b>1.0000e-005</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>0.6679</b> | <b>0.6679</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6684</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     | 0.2158        | 1.9754        | 2.0700        | 3.4100e-003        |               | 0.1023        | 0.1023        |                | 0.0963        | 0.0963        | 0.0000        | 293.1324        | 293.1324        | 0.0702        | 0.0000        | 294.8881        |
| <b>Total</b> | <b>0.2158</b> | <b>1.9754</b> | <b>2.0700</b> | <b>3.4100e-003</b> |               | <b>0.1023</b> | <b>0.1023</b> |                | <b>0.0963</b> | <b>0.0963</b> | <b>0.0000</b> | <b>293.1324</b> | <b>293.1324</b> | <b>0.0702</b> | <b>0.0000</b> | <b>294.8881</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0527        | 1.6961        | 0.4580        | 4.5500e-003   | 0.1140        | 3.1800e-003   | 0.1171        | 0.0329         | 3.0400e-003   | 0.0359        | 0.0000        | 441.9835          | 441.9835          | 0.0264        | 0.0000        | 442.6435          |
| Worker       | 0.4088        | 0.3066        | 3.5305        | 0.0107        | 1.1103        | 8.8700e-003   | 1.1192        | 0.2949         | 8.1700e-003   | 0.3031        | 0.0000        | 966.8117          | 966.8117          | 0.0266        | 0.0000        | 967.4773          |
| <b>Total</b> | <b>0.4616</b> | <b>2.0027</b> | <b>3.9885</b> | <b>0.0152</b> | <b>1.2243</b> | <b>0.0121</b> | <b>1.2363</b> | <b>0.3278</b>  | <b>0.0112</b> | <b>0.3390</b> | <b>0.0000</b> | <b>1,408.7952</b> | <b>1,408.7952</b> | <b>0.0530</b> | <b>0.0000</b> | <b>1,410.1208</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     | 0.2158        | 1.9754        | 2.0700        | 3.4100e-003        |               | 0.1023        | 0.1023        |                | 0.0963        | 0.0963        | 0.0000        | 293.1321        | 293.1321        | 0.0702        | 0.0000        | 294.8877        |
| <b>Total</b> | <b>0.2158</b> | <b>1.9754</b> | <b>2.0700</b> | <b>3.4100e-003</b> |               | <b>0.1023</b> | <b>0.1023</b> |                | <b>0.0963</b> | <b>0.0963</b> | <b>0.0000</b> | <b>293.1321</b> | <b>293.1321</b> | <b>0.0702</b> | <b>0.0000</b> | <b>294.8877</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0527        | 1.6961        | 0.4580        | 4.5500e-003   | 0.1140        | 3.1800e-003   | 0.1171        | 0.0329         | 3.0400e-003   | 0.0359        | 0.0000        | 441.9835          | 441.9835          | 0.0264        | 0.0000        | 442.6435          |
| Worker       | 0.4088        | 0.3066        | 3.5305        | 0.0107        | 1.1103        | 8.8700e-003   | 1.1192        | 0.2949         | 8.1700e-003   | 0.3031        | 0.0000        | 966.8117          | 966.8117          | 0.0266        | 0.0000        | 967.4773          |
| <b>Total</b> | <b>0.4616</b> | <b>2.0027</b> | <b>3.9885</b> | <b>0.0152</b> | <b>1.2243</b> | <b>0.0121</b> | <b>1.2363</b> | <b>0.3278</b>  | <b>0.0112</b> | <b>0.3390</b> | <b>0.0000</b> | <b>1,408.7952</b> | <b>1,408.7952</b> | <b>0.0530</b> | <b>0.0000</b> | <b>1,410.1208</b> |

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1942        | 1.7765        | 2.0061        | 3.3300e-003        |               | 0.0864        | 0.0864        |                | 0.0813        | 0.0813        | 0.0000        | 286.2789        | 286.2789        | 0.0681        | 0.0000        | 287.9814        |
| <b>Total</b> | <b>0.1942</b> | <b>1.7765</b> | <b>2.0061</b> | <b>3.3300e-003</b> |               | <b>0.0864</b> | <b>0.0864</b> |                | <b>0.0813</b> | <b>0.0813</b> | <b>0.0000</b> | <b>286.2789</b> | <b>286.2789</b> | <b>0.0681</b> | <b>0.0000</b> | <b>287.9814</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |                    |               |                |                    |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0382        | 1.2511        | 0.4011        | 4.3000e-003   | 0.1113        | 1.4600e-003        | 0.1127        | 0.0321         | 1.4000e-003        | 0.0335        | 0.0000        | 417.9930          | 417.9930          | 0.0228        | 0.0000        | 418.5624          |
| Worker       | 0.3753        | 0.2708        | 3.1696        | 0.0101        | 1.0840        | 8.4100e-003        | 1.0924        | 0.2879         | 7.7400e-003        | 0.2957        | 0.0000        | 909.3439          | 909.3439          | 0.0234        | 0.0000        | 909.9291          |
| <b>Total</b> | <b>0.4135</b> | <b>1.5218</b> | <b>3.5707</b> | <b>0.0144</b> | <b>1.1953</b> | <b>9.8700e-003</b> | <b>1.2051</b> | <b>0.3200</b>  | <b>9.1400e-003</b> | <b>0.3292</b> | <b>0.0000</b> | <b>1,327.3369</b> | <b>1,327.3369</b> | <b>0.0462</b> | <b>0.0000</b> | <b>1,328.4916</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     | 0.1942        | 1.7765        | 2.0061        | 3.3300e-003        |               | 0.0864        | 0.0864        |                | 0.0813        | 0.0813        | 0.0000        | 286.2785        | 286.2785        | 0.0681        | 0.0000        | 287.9811        |
| <b>Total</b> | <b>0.1942</b> | <b>1.7765</b> | <b>2.0061</b> | <b>3.3300e-003</b> |               | <b>0.0864</b> | <b>0.0864</b> |                | <b>0.0813</b> | <b>0.0813</b> | <b>0.0000</b> | <b>286.2785</b> | <b>286.2785</b> | <b>0.0681</b> | <b>0.0000</b> | <b>287.9811</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |                    |               |                |                    |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0382        | 1.2511        | 0.4011        | 4.3000e-003   | 0.1113        | 1.4600e-003        | 0.1127        | 0.0321         | 1.4000e-003        | 0.0335        | 0.0000        | 417.9930          | 417.9930          | 0.0228        | 0.0000        | 418.5624          |
| Worker       | 0.3753        | 0.2708        | 3.1696        | 0.0101        | 1.0840        | 8.4100e-003        | 1.0924        | 0.2879         | 7.7400e-003        | 0.2957        | 0.0000        | 909.3439          | 909.3439          | 0.0234        | 0.0000        | 909.9291          |
| <b>Total</b> | <b>0.4135</b> | <b>1.5218</b> | <b>3.5707</b> | <b>0.0144</b> | <b>1.1953</b> | <b>9.8700e-003</b> | <b>1.2051</b> | <b>0.3200</b>  | <b>9.1400e-003</b> | <b>0.3292</b> | <b>0.0000</b> | <b>1,327.3369</b> | <b>1,327.3369</b> | <b>0.0462</b> | <b>0.0000</b> | <b>1,328.4916</b> |

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

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 6.7100e-003        | 0.0663        | 0.0948        | 1.5000e-004        |               | 3.3200e-003        | 3.3200e-003        |                | 3.0500e-003        | 3.0500e-003        | 0.0000        | 13.0175        | 13.0175        | 4.2100e-003        | 0.0000        | 13.1227        |
| Paving       | 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>6.7100e-003</b> | <b>0.0663</b> | <b>0.0948</b> | <b>1.5000e-004</b> |               | <b>3.3200e-003</b> | <b>3.3200e-003</b> |                | <b>3.0500e-003</b> | <b>3.0500e-003</b> | <b>0.0000</b> | <b>13.0175</b> | <b>13.0175</b> | <b>4.2100e-003</b> | <b>0.0000</b> | <b>13.1227</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.7000e-004        | 2.7000e-004        | 3.1200e-003        | 1.0000e-005        | 1.0700e-003        | 1.0000e-005        | 1.0800e-003        | 2.8000e-004        | 1.0000e-005        | 2.9000e-004        | 0.0000        | 0.8963        | 0.8963        | 2.0000e-005        | 0.0000        | 0.8968        |
| <b>Total</b> | <b>3.7000e-004</b> | <b>2.7000e-004</b> | <b>3.1200e-003</b> | <b>1.0000e-005</b> | <b>1.0700e-003</b> | <b>1.0000e-005</b> | <b>1.0800e-003</b> | <b>2.8000e-004</b> | <b>1.0000e-005</b> | <b>2.9000e-004</b> | <b>0.0000</b> | <b>0.8963</b> | <b>0.8963</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.8968</b> |

**Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 6.7100e-003        | 0.0663        | 0.0948        | 1.5000e-004        |               | 3.3200e-003        | 3.3200e-003        |                | 3.0500e-003        | 3.0500e-003        | 0.0000        | 13.0175        | 13.0175        | 4.2100e-003        | 0.0000        | 13.1227        |
| Paving       | 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>6.7100e-003</b> | <b>0.0663</b> | <b>0.0948</b> | <b>1.5000e-004</b> |               | <b>3.3200e-003</b> | <b>3.3200e-003</b> |                | <b>3.0500e-003</b> | <b>3.0500e-003</b> | <b>0.0000</b> | <b>13.0175</b> | <b>13.0175</b> | <b>4.2100e-003</b> | <b>0.0000</b> | <b>13.1227</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.7000e-004        | 2.7000e-004        | 3.1200e-003        | 1.0000e-005        | 1.0700e-003        | 1.0000e-005        | 1.0800e-003        | 2.8000e-004        | 1.0000e-005        | 2.9000e-004        | 0.0000        | 0.8963        | 0.8963        | 2.0000e-005        | 0.0000        | 0.8968        |
| <b>Total</b> | <b>3.7000e-004</b> | <b>2.7000e-004</b> | <b>3.1200e-003</b> | <b>1.0000e-005</b> | <b>1.0700e-003</b> | <b>1.0000e-005</b> | <b>1.0800e-003</b> | <b>2.8000e-004</b> | <b>1.0000e-005</b> | <b>2.9000e-004</b> | <b>0.0000</b> | <b>0.8963</b> | <b>0.8963</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.8968</b> |

**3.6 Paving - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0109        | 0.1048        | 0.1609        | 2.5000e-004        |               | 5.1500e-003        | 5.1500e-003        |                | 4.7400e-003        | 4.7400e-003        | 0.0000        | 22.0292        | 22.0292        | 7.1200e-003        | 0.0000        | 22.2073        |
| Paving       | 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>0.0109</b> | <b>0.1048</b> | <b>0.1609</b> | <b>2.5000e-004</b> |               | <b>5.1500e-003</b> | <b>5.1500e-003</b> |                | <b>4.7400e-003</b> | <b>4.7400e-003</b> | <b>0.0000</b> | <b>22.0292</b> | <b>22.0292</b> | <b>7.1200e-003</b> | <b>0.0000</b> | <b>22.2073</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2024****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.9000e-004        | 4.1000e-004        | 4.9200e-003        | 2.0000e-005        | 1.8100e-003        | 1.0000e-005        | 1.8200e-003        | 4.8000e-004        | 1.0000e-005        | 4.9000e-004        | 0.0000        | 1.4697        | 1.4697        | 4.0000e-005        | 0.0000        | 1.4706        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.1000e-004</b> | <b>4.9200e-003</b> | <b>2.0000e-005</b> | <b>1.8100e-003</b> | <b>1.0000e-005</b> | <b>1.8200e-003</b> | <b>4.8000e-004</b> | <b>1.0000e-005</b> | <b>4.9000e-004</b> | <b>0.0000</b> | <b>1.4697</b> | <b>1.4697</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.4706</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     | 0.0109        | 0.1048        | 0.1609        | 2.5000e-004        |               | 5.1500e-003        | 5.1500e-003        |                | 4.7400e-003        | 4.7400e-003        | 0.0000        | 22.0292        | 22.0292        | 7.1200e-003        | 0.0000        | 22.2073        |
| Paving       | 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>0.0109</b> | <b>0.1048</b> | <b>0.1609</b> | <b>2.5000e-004</b> |               | <b>5.1500e-003</b> | <b>5.1500e-003</b> |                | <b>4.7400e-003</b> | <b>4.7400e-003</b> | <b>0.0000</b> | <b>22.0292</b> | <b>22.0292</b> | <b>7.1200e-003</b> | <b>0.0000</b> | <b>22.2073</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2024****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 5.9000e-004        | 4.1000e-004        | 4.9200e-003        | 2.0000e-005        | 1.8100e-003        | 1.0000e-005        | 1.8200e-003        | 4.8000e-004        | 1.0000e-005        | 4.9000e-004        | 0.0000        | 1.4697        | 1.4697        | 4.0000e-005        | 0.0000        | 1.4706        |
| <b>Total</b> | <b>5.9000e-004</b> | <b>4.1000e-004</b> | <b>4.9200e-003</b> | <b>2.0000e-005</b> | <b>1.8100e-003</b> | <b>1.0000e-005</b> | <b>1.8200e-003</b> | <b>4.8000e-004</b> | <b>1.0000e-005</b> | <b>4.9000e-004</b> | <b>0.0000</b> | <b>1.4697</b> | <b>1.4697</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.4706</b> |

**3.7 Architectural Coating - 2024****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 4.1372        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 3.1600e-003   | 0.0213        | 0.0317        | 5.0000e-005        |               | 1.0700e-003        | 1.0700e-003        |                | 1.0700e-003        | 1.0700e-003        | 0.0000        | 4.4682        | 4.4682        | 2.5000e-004        | 0.0000        | 4.4745        |
| <b>Total</b>    | <b>4.1404</b> | <b>0.0213</b> | <b>0.0317</b> | <b>5.0000e-005</b> |               | <b>1.0700e-003</b> | <b>1.0700e-003</b> |                | <b>1.0700e-003</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>4.4682</b> | <b>4.4682</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>4.4745</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 0.0101        | 6.9900e-003        | 0.0835        | 2.8000e-004        | 0.0307        | 2.3000e-004        | 0.0309        | 8.1500e-003        | 2.2000e-004        | 8.3700e-003        | 0.0000        | 24.9407        | 24.9407        | 6.1000e-004        | 0.0000        | 24.9558        |
| <b>Total</b> | <b>0.0101</b> | <b>6.9900e-003</b> | <b>0.0835</b> | <b>2.8000e-004</b> | <b>0.0307</b> | <b>2.3000e-004</b> | <b>0.0309</b> | <b>8.1500e-003</b> | <b>2.2000e-004</b> | <b>8.3700e-003</b> | <b>0.0000</b> | <b>24.9407</b> | <b>24.9407</b> | <b>6.1000e-004</b> | <b>0.0000</b> | <b>24.9558</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 | 4.1372        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 3.1600e-003   | 0.0213        | 0.0317        | 5.0000e-005        |               | 1.0700e-003        | 1.0700e-003        |                | 1.0700e-003        | 1.0700e-003        | 0.0000        | 4.4682        | 4.4682        | 2.5000e-004        | 0.0000        | 4.4745        |
| <b>Total</b>    | <b>4.1404</b> | <b>0.0213</b> | <b>0.0317</b> | <b>5.0000e-005</b> |               | <b>1.0700e-003</b> | <b>1.0700e-003</b> |                | <b>1.0700e-003</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>4.4682</b> | <b>4.4682</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>4.4745</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 0.0101        | 6.9900e-003        | 0.0835        | 2.8000e-004        | 0.0307        | 2.3000e-004        | 0.0309        | 8.1500e-003        | 2.2000e-004        | 8.3700e-003        | 0.0000        | 24.9407        | 24.9407        | 6.1000e-004        | 0.0000        | 24.9558        |
| <b>Total</b> | <b>0.0101</b> | <b>6.9900e-003</b> | <b>0.0835</b> | <b>2.8000e-004</b> | <b>0.0307</b> | <b>2.3000e-004</b> | <b>0.0309</b> | <b>8.1500e-003</b> | <b>2.2000e-004</b> | <b>8.3700e-003</b> | <b>0.0000</b> | <b>24.9407</b> | <b>24.9407</b> | <b>6.1000e-004</b> | <b>0.0000</b> | <b>24.9558</b> |

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

## Village South Specific Plan (Proposed) - 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   | 1.5857  | 7.9962 | 19.1834 | 0.0821 | 7.7979        | 0.0580       | 7.8559     | 2.0895         | 0.0539        | 2.1434      | 0.0000   | 7,620.4986 | 7,620.4986 | 0.3407 | 0.0000 | 7,629.0162 |
| Unmitigated | 1.5857  | 7.9962 | 19.1834 | 0.0821 | 7.7979        | 0.0580       | 7.8559     | 2.0895         | 0.0539        | 2.1434      | 0.0000   | 7,620.4986 | 7,620.4986 | 0.3407 | 0.0000 | 7,629.0162 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise                 | 145.75                  | 154.25   | 154.00   | 506,227     | 506,227    |
| Apartments Mid Rise                 | 4,026.75                | 3,773.25 | 4,075.50 | 13,660,065  | 13,660,065 |
| General Office Building             | 288.45                  | 62.55    | 31.05    | 706,812     | 706,812    |
| High Turnover (Sit Down Restaurant) | 2,368.80                | 2,873.52 | 2,817.72 | 3,413,937   | 3,413,937  |
| Hotel                               | 192.00                  | 187.50   | 160.00   | 445,703     | 445,703    |
| Quality Restaurant                  | 501.12                  | 511.92   | 461.20   | 707,488     | 707,488    |
| Regional Shopping Center            | 528.08                  | 601.44   | 357.84   | 1,112,221   | 1,112,221  |
| Total                               | 8,050.95                | 8,164.43 | 8,057.31 | 20,552,452  | 20,552,452 |

## 4.3 Trip Type Information

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

| Land Use                 | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                          | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| Apartments Mid Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| General Office Building  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |
| High Turnover (Sit Down  | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Hotel                    | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Quality Restaurant       | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Regional Shopping Center | 16.60      | 8.40       | 6.90        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Apartments Mid Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| General Office Building             | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| High Turnover (Sit Down Restaurant) | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Hotel                               | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Quality Restaurant                  | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Regional Shopping Center            | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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## Village South Specific Plan (Proposed) - 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    |            |            |        |        |            |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2,512.6465 | 2,512.6465 | 0.1037 | 0.0215 | 2,521.6356 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2,512.6465 | 2,512.6465 | 0.1037 | 0.0215 | 2,521.6356 |
| NaturalGas Mitigated    | 0.1398  | 1.2312 | 0.7770 | 7.6200e-003 |               | 0.0966       | 0.0966     |                | 0.0966        | 0.0966      | 0.0000   | 1,383.4267 | 1,383.4267 | 0.0265 | 0.0254 | 1,391.6478 |
| NaturalGas Unmitigated  | 0.1398  | 1.2312 | 0.7770 | 7.6200e-003 |               | 0.0966       | 0.0966     |                | 0.0966        | 0.0966      | 0.0000   | 1,383.4267 | 1,383.4267 | 0.0265 | 0.0254 | 1,391.6478 |

## Village South Specific Plan (Proposed) - 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         |                   |                   |               |               |                   |
| Apartments Low Rise                 | 408494         | 2.2000e-003   | 0.0188        | 8.0100e-003   | 1.2000e-004        |               | 1.5200e-003   | 1.5200e-003   |                | 1.5200e-003   | 1.5200e-003   | 0.0000        | 21.7988           | 21.7988           | 4.2000e-004   | 4.0000e-004   | 21.9284           |
| Apartments Mid Rise                 | 1.30613e+007   | 0.0704        | 0.6018        | 0.2561        | 3.8400e-003        |               | 0.0487        | 0.0487        |                | 0.0487        | 0.0487        | 0.0000        | 696.9989          | 696.9989          | 0.0134        | 0.0128        | 701.1408          |
| General Office Building             | 468450         | 2.5300e-003   | 0.0230        | 0.0193        | 1.4000e-004        |               | 1.7500e-003   | 1.7500e-003   |                | 1.7500e-003   | 1.7500e-003   | 0.0000        | 24.9983           | 24.9983           | 4.8000e-004   | 4.6000e-004   | 25.1468           |
| High Turnover (Sit Down Restaurant) | 8.30736e+006   | 0.0448        | 0.4072        | 0.3421        | 2.4400e-003        |               | 0.0310        | 0.0310        |                | 0.0310        | 0.0310        | 0.0000        | 443.3124          | 443.3124          | 8.5000e-003   | 8.1300e-003   | 445.9468          |
| Hotel                               | 1.74095e+006   | 9.3900e-003   | 0.0853        | 0.0717        | 5.1000e-004        |               | 6.4900e-003   | 6.4900e-003   |                | 6.4900e-003   | 6.4900e-003   | 0.0000        | 92.9036           | 92.9036           | 1.7800e-003   | 1.7000e-003   | 93.4557           |
| Quality Restaurant                  | 1.84608e+006   | 9.9500e-003   | 0.0905        | 0.0760        | 5.4000e-004        |               | 6.8800e-003   | 6.8800e-003   |                | 6.8800e-003   | 6.8800e-003   | 0.0000        | 98.5139           | 98.5139           | 1.8900e-003   | 1.8100e-003   | 99.0993           |
| Regional Shopping Center            | 91840          | 5.0000e-004   | 4.5000e-003   | 3.7800e-003   | 3.0000e-005        |               | 3.4000e-004   | 3.4000e-004   |                | 3.4000e-004   | 3.4000e-004   | 0.0000        | 4.9009            | 4.9009            | 9.0000e-005   | 9.0000e-005   | 4.9301            |
| <b>Total</b>                        |                | <b>0.1398</b> | <b>1.2312</b> | <b>0.7770</b> | <b>7.6200e-003</b> |               | <b>0.0966</b> | <b>0.0966</b> |                | <b>0.0966</b> | <b>0.0966</b> | <b>0.0000</b> | <b>1,383.4268</b> | <b>1,383.4268</b> | <b>0.0265</b> | <b>0.0254</b> | <b>1,391.6478</b> |

## Village South Specific Plan (Proposed) - 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         |                   |                   |               |               |                   |
| Apartments Low Rise                 | 408494         | 2.2000e-003   | 0.0188        | 8.0100e-003   | 1.2000e-004        |               | 1.5200e-003   | 1.5200e-003   |                | 1.5200e-003   | 1.5200e-003   | 0.0000        | 21.7988           | 21.7988           | 4.2000e-004   | 4.0000e-004   | 21.9284           |
| Apartments Mid Rise                 | 1.30613e+007   | 0.0704        | 0.6018        | 0.2561        | 3.8400e-003        |               | 0.0487        | 0.0487        |                | 0.0487        | 0.0487        | 0.0000        | 696.9989          | 696.9989          | 0.0134        | 0.0128        | 701.1408          |
| General Office Building             | 468450         | 2.5300e-003   | 0.0230        | 0.0193        | 1.4000e-004        |               | 1.7500e-003   | 1.7500e-003   |                | 1.7500e-003   | 1.7500e-003   | 0.0000        | 24.9983           | 24.9983           | 4.8000e-004   | 4.6000e-004   | 25.1468           |
| High Turnover (Sit Down Restaurant) | 8.30736e+006   | 0.0448        | 0.4072        | 0.3421        | 2.4400e-003        |               | 0.0310        | 0.0310        |                | 0.0310        | 0.0310        | 0.0000        | 443.3124          | 443.3124          | 8.5000e-003   | 8.1300e-003   | 445.9468          |
| Hotel                               | 1.74095e+006   | 9.3900e-003   | 0.0853        | 0.0717        | 5.1000e-004        |               | 6.4900e-003   | 6.4900e-003   |                | 6.4900e-003   | 6.4900e-003   | 0.0000        | 92.9036           | 92.9036           | 1.7800e-003   | 1.7000e-003   | 93.4557           |
| Quality Restaurant                  | 1.84608e+006   | 9.9500e-003   | 0.0905        | 0.0760        | 5.4000e-004        |               | 6.8800e-003   | 6.8800e-003   |                | 6.8800e-003   | 6.8800e-003   | 0.0000        | 98.5139           | 98.5139           | 1.8900e-003   | 1.8100e-003   | 99.0993           |
| Regional Shopping Center            | 91840          | 5.0000e-004   | 4.5000e-003   | 3.7800e-003   | 3.0000e-005        |               | 3.4000e-004   | 3.4000e-004   |                | 3.4000e-004   | 3.4000e-004   | 0.0000        | 4.9009            | 4.9009            | 9.0000e-005   | 9.0000e-005   | 4.9301            |
| <b>Total</b>                        |                | <b>0.1398</b> | <b>1.2312</b> | <b>0.7770</b> | <b>7.6200e-003</b> |               | <b>0.0966</b> | <b>0.0966</b> |                | <b>0.0966</b> | <b>0.0966</b> | <b>0.0000</b> | <b>1,383.4268</b> | <b>1,383.4268</b> | <b>0.0265</b> | <b>0.0254</b> | <b>1,391.6478</b> |



## Village South Specific Plan (Proposed) - 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             |               |               |                   |
| Apartments Low Rise                 | 106010          | 33.7770           | 1.3900e-003   | 2.9000e-004   | 33.8978           |
| Apartments Mid Rise                 | 3.94697e+006    | 1,257.5879        | 0.0519        | 0.0107        | 1,262.0869        |
| General Office Building             | 584550          | 186.2502          | 7.6900e-003   | 1.5900e-003   | 186.9165          |
| High Turnover (Sit Down Restaurant) | 1.58904e+006    | 506.3022          | 0.0209        | 4.3200e-003   | 508.1135          |
| Hotel                               | 550308          | 175.3399          | 7.2400e-003   | 1.5000e-003   | 175.9672          |
| Quality Restaurant                  | 353120          | 112.5116          | 4.6500e-003   | 9.6000e-004   | 112.9141          |
| Regional Shopping Center            | 756000          | 240.8778          | 9.9400e-003   | 2.0600e-003   | 241.7395          |
| <b>Total</b>                        |                 | <b>2,512.6465</b> | <b>0.1037</b> | <b>0.0215</b> | <b>2,521.6356</b> |

## Village South Specific Plan (Proposed) - 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             |               |               |                   |
| Apartments Low Rise                 | 106010          | 33.7770           | 1.3900e-003   | 2.9000e-004   | 33.8978           |
| Apartments Mid Rise                 | 3.94697e+006    | 1,257.5879        | 0.0519        | 0.0107        | 1,262.0869        |
| General Office Building             | 584550          | 186.2502          | 7.6900e-003   | 1.5900e-003   | 186.9165          |
| High Turnover (Sit Down Restaurant) | 1.58904e+006    | 506.3022          | 0.0209        | 4.3200e-003   | 508.1135          |
| Hotel                               | 550308          | 175.3399          | 7.2400e-003   | 1.5000e-003   | 175.9672          |
| Quality Restaurant                  | 353120          | 112.5116          | 4.6500e-003   | 9.6000e-004   | 112.9141          |
| Regional Shopping Center            | 756000          | 240.8778          | 9.9400e-003   | 2.0600e-003   | 241.7395          |
| <b>Total</b>                        |                 | <b>2,512.6465</b> | <b>0.1037</b> | <b>0.0215</b> | <b>2,521.6356</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Village South Specific Plan (Proposed) - 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   | 5.1437  | 0.2950 | 10.3804 | 1.6700e-003 |               | 0.0714       | 0.0714     |                | 0.0714        | 0.0714      | 0.0000   | 220.9670  | 220.9670  | 0.0201 | 3.7400e-003 | 222.5835 |
| Unmitigated | 5.1437  | 0.2950 | 10.3804 | 1.6700e-003 |               | 0.0714       | 0.0714     |                | 0.0714        | 0.0714      | 0.0000   | 220.9670  | 220.9670  | 0.0201 | 3.7400e-003 | 222.5835 |

## 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 | 0.4137        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Consumer Products     | 4.3998        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Hearth                | 0.0206        | 0.1763        | 0.0750         | 1.1200e-003        |               | 0.0143        | 0.0143        |                | 0.0143        | 0.0143        | 0.0000        | 204.1166        | 204.1166        | 3.9100e-003   | 3.7400e-003        | 205.3295        |
| Landscaping           | 0.3096        | 0.1187        | 10.3054        | 5.4000e-004        |               | 0.0572        | 0.0572        |                | 0.0572        | 0.0572        | 0.0000        | 16.8504         | 16.8504         | 0.0161        | 0.0000             | 17.2540         |
| <b>Total</b>          | <b>5.1437</b> | <b>0.2950</b> | <b>10.3804</b> | <b>1.6600e-003</b> |               | <b>0.0714</b> | <b>0.0714</b> |                | <b>0.0714</b> | <b>0.0714</b> | <b>0.0000</b> | <b>220.9670</b> | <b>220.9670</b> | <b>0.0201</b> | <b>3.7400e-003</b> | <b>222.5835</b> |

## Village South Specific Plan (Proposed) - 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 | 0.4137        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Consumer Products     | 4.3998        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Hearth                | 0.0206        | 0.1763        | 0.0750         | 1.1200e-003        |               | 0.0143        | 0.0143        |                | 0.0143        | 0.0143        | 0.0000        | 204.1166        | 204.1166        | 3.9100e-003   | 3.7400e-003        | 205.3295        |
| Landscaping           | 0.3096        | 0.1187        | 10.3054        | 5.4000e-004        |               | 0.0572        | 0.0572        |                | 0.0572        | 0.0572        | 0.0000        | 16.8504         | 16.8504         | 0.0161        | 0.0000             | 17.2540         |
| <b>Total</b>          | <b>5.1437</b> | <b>0.2950</b> | <b>10.3804</b> | <b>1.6600e-003</b> |               | <b>0.0714</b> | <b>0.0714</b> |                | <b>0.0714</b> | <b>0.0714</b> | <b>0.0000</b> | <b>220.9670</b> | <b>220.9670</b> | <b>0.0201</b> | <b>3.7400e-003</b> | <b>222.5835</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 585.8052  | 3.0183 | 0.0755 | 683.7567 |
| Unmitigated | 585.8052  | 3.0183 | 0.0755 | 683.7567 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use****Unmitigated**

|                                     | Indoor/Outdoor Use | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | Mgal               | MT/yr           |               |               |                 |
| Apartments Low Rise                 | 1.62885 / 1.02688  | 10.9095         | 0.0535        | 1.3400e-003   | 12.6471         |
| Apartments Mid Rise                 | 63.5252 / 40.0485  | 425.4719        | 2.0867        | 0.0523        | 493.2363        |
| General Office Building             | 7.99802 / 4.90201  | 53.0719         | 0.2627        | 6.5900e-003   | 61.6019         |
| High Turnover (Sit Down Restaurant) | 10.9272 / 0.697482 | 51.2702         | 0.3580        | 8.8200e-003   | 62.8482         |
| Hotel                               | 1.26834 / 0.140927 | 6.1633          | 0.0416        | 1.0300e-003   | 7.5079          |
| Quality Restaurant                  | 2.42827 / 0.154996 | 11.3934         | 0.0796        | 1.9600e-003   | 13.9663         |
| Regional Shopping Center            | 4.14806 / 2.54236  | 27.5250         | 0.1363        | 3.4200e-003   | 31.9490         |
| <b>Total</b>                        |                    | <b>585.8052</b> | <b>3.0183</b> | <b>0.0755</b> | <b>683.7567</b> |

## Village South Specific Plan (Proposed) - 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           |               |               |                 |
| Apartments Low Rise                 | 1.62885 / 1.02688  | 10.9095         | 0.0535        | 1.3400e-003   | 12.6471         |
| Apartments Mid Rise                 | 63.5252 / 40.0485  | 425.4719        | 2.0867        | 0.0523        | 493.2363        |
| General Office Building             | 7.99802 / 4.90201  | 53.0719         | 0.2627        | 6.5900e-003   | 61.6019         |
| High Turnover (Sit Down Restaurant) | 10.9272 / 0.697482 | 51.2702         | 0.3580        | 8.8200e-003   | 62.8482         |
| Hotel                               | 1.26834 / 0.140927 | 6.1633          | 0.0416        | 1.0300e-003   | 7.5079          |
| Quality Restaurant                  | 2.42827 / 0.154996 | 11.3934         | 0.0796        | 1.9600e-003   | 13.9663         |
| Regional Shopping Center            | 4.14806 / 2.54236  | 27.5250         | 0.1363        | 3.4200e-003   | 31.9490         |
| <b>Total</b>                        |                    | <b>585.8052</b> | <b>3.0183</b> | <b>0.0755</b> | <b>683.7567</b> |

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**Category/Year**

|             | Total CO2 | CH4     | N2O    | CO2e     |
|-------------|-----------|---------|--------|----------|
|             | MT/yr     |         |        |          |
| Mitigated   | 207.8079  | 12.2811 | 0.0000 | 514.8354 |
| Unmitigated | 207.8079  | 12.2811 | 0.0000 | 514.8354 |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

|                                     | Waste Disposed | Total CO2       | CH4            | N2O           | CO2e            |
|-------------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use                            | tons           | MT/yr           |                |               |                 |
| Apartments Low Rise                 | 11.5           | 2.3344          | 0.1380         | 0.0000        | 5.7834          |
| Apartments Mid Rise                 | 448.5          | 91.0415         | 5.3804         | 0.0000        | 225.5513        |
| General Office Building             | 41.85          | 8.4952          | 0.5021         | 0.0000        | 21.0464         |
| High Turnover (Sit Down Restaurant) | 428.4          | 86.9613         | 5.1393         | 0.0000        | 215.4430        |
| Hotel                               | 27.38          | 5.5579          | 0.3285         | 0.0000        | 13.7694         |
| Quality Restaurant                  | 7.3            | 1.4818          | 0.0876         | 0.0000        | 3.6712          |
| Regional Shopping Center            | 58.8           | 11.9359         | 0.7054         | 0.0000        | 29.5706         |
| <b>Total</b>                        |                | <b>207.8079</b> | <b>12.2811</b> | <b>0.0000</b> | <b>514.8354</b> |

## Village South Specific Plan (Proposed) - 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           |                |               |                 |
| Apartments Low Rise                 | 11.5           | 2.3344          | 0.1380         | 0.0000        | 5.7834          |
| Apartments Mid Rise                 | 448.5          | 91.0415         | 5.3804         | 0.0000        | 225.5513        |
| General Office Building             | 41.85          | 8.4952          | 0.5021         | 0.0000        | 21.0464         |
| High Turnover (Sit Down Restaurant) | 428.4          | 86.9613         | 5.1393         | 0.0000        | 215.4430        |
| Hotel                               | 27.38          | 5.5579          | 0.3285         | 0.0000        | 13.7694         |
| Quality Restaurant                  | 7.3            | 1.4818          | 0.0876         | 0.0000        | 3.6712          |
| Regional Shopping Center            | 58.8           | 11.9359         | 0.7054         | 0.0000        | 29.5706         |
| <b>Total</b>                        |                | <b>207.8079</b> | <b>12.2811</b> | <b>0.0000</b> | <b>514.8354</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**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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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

## Village South Specific Plan (Proposed)

### Los Angeles-South Coast County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 45.00  | 1000sqft      | 1.03        | 45,000.00          | 0          |
| High Turnover (Sit Down Restaurant) | 36.00  | 1000sqft      | 0.83        | 36,000.00          | 0          |
| Hotel                               | 50.00  | Room          | 1.67        | 72,600.00          | 0          |
| Quality Restaurant                  | 8.00   | 1000sqft      | 0.18        | 8,000.00           | 0          |
| Apartments Low Rise                 | 25.00  | Dwelling Unit | 1.56        | 25,000.00          | 72         |
| Apartments Mid Rise                 | 975.00 | Dwelling Unit | 25.66       | 975,000.00         | 2789       |
| Regional Shopping Center            | 56.00  | 1000sqft      | 1.29        | 56,000.00          | 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>          | 2028  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

| Table Name      | Column Name       | Default Value | New Value |
|-----------------|-------------------|---------------|-----------|
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | NumberWood        | 1.25          | 0.00      |
| tblFireplaces   | NumberWood        | 48.75         | 0.00      |
| tblVehicleTrips | ST_TR             | 7.16          | 6.17      |
| tblVehicleTrips | ST_TR             | 6.39          | 3.87      |
| tblVehicleTrips | ST_TR             | 2.46          | 1.39      |
| tblVehicleTrips | ST_TR             | 158.37        | 79.82     |
| tblVehicleTrips | ST_TR             | 8.19          | 3.75      |
| tblVehicleTrips | ST_TR             | 94.36         | 63.99     |
| tblVehicleTrips | ST_TR             | 49.97         | 10.74     |
| tblVehicleTrips | SU_TR             | 6.07          | 6.16      |
| tblVehicleTrips | SU_TR             | 5.86          | 4.18      |
| tblVehicleTrips | SU_TR             | 1.05          | 0.69      |
| tblVehicleTrips | SU_TR             | 131.84        | 78.27     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| tblVehicleTrips | SU_TR              | 5.95   | 3.20  |
| tblVehicleTrips | SU_TR              | 72.16  | 57.65 |
| tblVehicleTrips | SU_TR              | 25.24  | 6.39  |
| tblVehicleTrips | WD_TR              | 6.59   | 5.83  |
| tblVehicleTrips | WD_TR              | 6.65   | 4.13  |
| tblVehicleTrips | WD_TR              | 11.03  | 6.41  |
| tblVehicleTrips | WD_TR              | 127.15 | 65.80 |
| tblVehicleTrips | WD_TR              | 8.17   | 3.84  |
| tblVehicleTrips | WD_TR              | 89.95  | 62.64 |
| tblVehicleTrips | WD_TR              | 42.70  | 9.43  |
| tblWoodstoves   | NumberCatalytic    | 1.25   | 0.00  |
| tblWoodstoves   | NumberCatalytic    | 48.75  | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 1.25   | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 48.75  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |

## 2.0 Emissions Summary

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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**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    | 4.2769   | 46.4588 | 31.6840 | 0.0643 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 6,234.797<br>4  | 6,234.797<br>4  | 1.9495 | 0.0000 | 6,283.535<br>2  |
| 2022    | 5.3304   | 38.8967 | 49.5629 | 0.1517 | 9.8688        | 1.6366       | 10.7727    | 3.6558         | 1.5057        | 5.1615      | 0.0000   | 15,251.56<br>74 | 15,251.56<br>74 | 1.9503 | 0.0000 | 15,278.52<br>88 |
| 2023    | 4.8957   | 26.3317 | 46.7567 | 0.1472 | 9.8688        | 0.7794       | 10.6482    | 2.6381         | 0.7322        | 3.3702      | 0.0000   | 14,807.52<br>69 | 14,807.52<br>69 | 1.0250 | 0.0000 | 14,833.15<br>21 |
| 2024    | 237.1630 | 9.5575  | 15.1043 | 0.0244 | 1.7884        | 0.4698       | 1.8628     | 0.4743         | 0.4322        | 0.5476      | 0.0000   | 2,361.398<br>9  | 2,361.398<br>9  | 0.7177 | 0.0000 | 2,379.342<br>1  |
| Maximum | 237.1630 | 46.4588 | 49.5629 | 0.1517 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 15,251.56<br>74 | 15,251.56<br>74 | 1.9503 | 0.0000 | 15,278.52<br>88 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### 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    | 4.2769   | 46.4588 | 31.6840 | 0.0643 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 6,234.7974  | 6,234.7974  | 1.9495 | 0.0000 | 6,283.5352  |
| 2022    | 5.3304   | 38.8967 | 49.5629 | 0.1517 | 9.8688        | 1.6366       | 10.7727    | 3.6558         | 1.5057        | 5.1615      | 0.0000   | 15,251.5674 | 15,251.5674 | 1.9503 | 0.0000 | 15,278.5288 |
| 2023    | 4.8957   | 26.3317 | 46.7567 | 0.1472 | 9.8688        | 0.7794       | 10.6482    | 2.6381         | 0.7322        | 3.3702      | 0.0000   | 14,807.5269 | 14,807.5269 | 1.0250 | 0.0000 | 14,833.1520 |
| 2024    | 237.1630 | 9.5575  | 15.1043 | 0.0244 | 1.7884        | 0.4698       | 1.8628     | 0.4743         | 0.4322        | 0.5476      | 0.0000   | 2,361.3989  | 2,361.3989  | 0.7177 | 0.0000 | 2,379.3421  |
| Maximum | 237.1630 | 46.4588 | 49.5629 | 0.1517 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 15,251.5674 | 15,251.5674 | 1.9503 | 0.0000 | 15,278.5288 |

[illegible]



## Village South Specific Plan (Proposed) - 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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.8489         | 45.4304        | 114.8495        | 0.4917        | 45.9592        | 0.3360        | 46.2951        | 12.2950        | 0.3119        | 12.6070        |               | 50,306.60<br>34         | 50,306.60<br>34         | 2.1807        |               | 50,361.12<br>08         |
| <b>Total</b> | <b>41.1168</b> | <b>67.2262</b> | <b>207.5497</b> | <b>0.6278</b> | <b>45.9592</b> | <b>2.4626</b> | <b>48.4217</b> | <b>12.2950</b> | <b>2.4385</b> | <b>14.7336</b> | <b>0.0000</b> | <b>76,811.18<br/>16</b> | <b>76,811.18<br/>16</b> | <b>2.8282</b> | <b>0.4832</b> | <b>77,025.87<br/>86</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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.8489         | 45.4304        | 114.8495        | 0.4917        | 45.9592        | 0.3360        | 46.2951        | 12.2950        | 0.3119        | 12.6070        |               | 50,306.60<br>34         | 50,306.60<br>34         | 2.1807        |               | 50,361.12<br>08         |
| <b>Total</b> | <b>41.1168</b> | <b>67.2262</b> | <b>207.5497</b> | <b>0.6278</b> | <b>45.9592</b> | <b>2.4626</b> | <b>48.4217</b> | <b>12.2950</b> | <b>2.4385</b> | <b>14.7336</b> | <b>0.0000</b> | <b>76,811.18<br/>16</b> | <b>76,811.18<br/>16</b> | <b>2.8282</b> | <b>0.4832</b> | <b>77,025.87<br/>86</b> |

## Village South Specific Plan (Proposed) - 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

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 9/1/2021   | 10/12/2021 | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 10/13/2021 | 11/9/2021  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 11/10/2021 | 1/11/2022  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 1/12/2022  | 12/12/2023 | 5             | 500      |                   |
| 5            | Paving                | Paving                | 12/13/2023 | 1/30/2024  | 5             | 35       |                   |
| 6            | Architectural Coating | Architectural Coating | 1/31/2024  | 3/19/2024  | 5             | 35       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Village South Specific Plan (Proposed) - 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      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

## Village South Specific Plan (Proposed) - 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               | 458.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 801.00             | 143.00             | 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                       | 160.00             | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## 3.1 Mitigation Measures Construction

## 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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |          |                   | 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>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1273        | 4.0952        | 0.9602        | 0.0119        | 0.2669        | 0.0126        | 0.2795        | 0.0732         | 0.0120        | 0.0852        |          | 1,292.2413        | 1,292.2413        | 0.0877        |     | 1,294.4337        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>0.1916</b> | <b>4.1394</b> | <b>1.5644</b> | <b>0.0136</b> | <b>0.4346</b> | <b>0.0139</b> | <b>0.4485</b> | <b>0.1176</b>  | <b>0.0133</b> | <b>0.1309</b> |          | <b>1,463.0568</b> | <b>1,463.0568</b> | <b>0.0927</b> |     | <b>1,465.3750</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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |               |                   | 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>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> | <b>0.0000</b> | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1273        | 4.0952        | 0.9602        | 0.0119        | 0.2669        | 0.0126        | 0.2795        | 0.0732         | 0.0120        | 0.0852        |          | 1,292.2413        | 1,292.2413        | 0.0877        |     | 1,294.4337        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>0.1916</b> | <b>4.1394</b> | <b>1.5644</b> | <b>0.0136</b> | <b>0.4346</b> | <b>0.0139</b> | <b>0.4485</b> | <b>0.1176</b>  | <b>0.0133</b> | <b>0.1309</b> |          | <b>1,463.0568</b> | <b>1,463.0568</b> | <b>0.0927</b> |     | <b>1,465.3750</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      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         |          | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715.4573        |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> |          | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715.4573</b> |

## Village South Specific Plan (Proposed) - 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 |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         | 0.0000        | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715.4573        |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> | <b>0.0000</b> | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715.4573</b> |

## Village South Specific Plan (Proposed) - 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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        |          | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> |          | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |



## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>0.0857</b> | <b>0.0589</b> | <b>0.8056</b> | <b>2.2900e-003</b> | <b>0.2236</b> | <b>1.8100e-003</b> | <b>0.2254</b> | <b>0.0593</b>  | <b>1.6600e-003</b> | <b>0.0610</b> |          | <b>227.7540</b> | <b>227.7540</b> | <b>6.7100e-003</b> |     | <b>227.9217</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        | 0.0000        | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> | <b>0.0000</b> | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>0.0857</b> | <b>0.0589</b> | <b>0.8056</b> | <b>2.2900e-003</b> | <b>0.2236</b> | <b>1.8100e-003</b> | <b>0.2254</b> | <b>0.0593</b>  | <b>1.6600e-003</b> | <b>0.0610</b> |          | <b>227.7540</b> | <b>227.7540</b> | <b>6.7100e-003</b> |     | <b>227.9217</b> |

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

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        |          | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> |          | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0803        | 0.0532        | 0.7432        | 2.2100e-003        | 0.2236        | 1.7500e-003        | 0.2253        | 0.0593         | 1.6100e-003        | 0.0609        |          | 219.7425        | 219.7425        | 6.0600e-003        |     | 219.8941        |
| <b>Total</b> | <b>0.0803</b> | <b>0.0532</b> | <b>0.7432</b> | <b>2.2100e-003</b> | <b>0.2236</b> | <b>1.7500e-003</b> | <b>0.2253</b> | <b>0.0593</b>  | <b>1.6100e-003</b> | <b>0.0609</b> |          | <b>219.7425</b> | <b>219.7425</b> | <b>6.0600e-003</b> |     | <b>219.8941</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        | 0.0000        | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> | <b>0.0000</b> | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0803        | 0.0532        | 0.7432        | 2.2100e-003        | 0.2236        | 1.7500e-003        | 0.2253        | 0.0593         | 1.6100e-003        | 0.0609        |          | 219.7425        | 219.7425        | 6.0600e-003        |     | 219.8941        |
| <b>Total</b> | <b>0.0803</b> | <b>0.0532</b> | <b>0.7432</b> | <b>2.2100e-003</b> | <b>0.2236</b> | <b>1.7500e-003</b> | <b>0.2253</b> | <b>0.0593</b>  | <b>1.6100e-003</b> | <b>0.0609</b> |          | <b>219.7425</b> | <b>219.7425</b> | <b>6.0600e-003</b> |     | <b>219.8941</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> |

## Village South Specific Plan (Proposed) - 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       | 0.4079        | 13.2032        | 3.4341         | 0.0364        | 0.9155        | 0.0248        | 0.9404        | 0.2636         | 0.0237        | 0.2873        |          | 3,896.548<br>2          | 3,896.548<br>2          | 0.2236        |     | 3,902.138<br>4          |
| Worker       | 3.2162        | 2.1318         | 29.7654        | 0.0883        | 8.9533        | 0.0701        | 9.0234        | 2.3745         | 0.0646        | 2.4390        |          | 8,800.685<br>7          | 8,800.685<br>7          | 0.2429        |     | 8,806.758<br>2          |
| <b>Total</b> | <b>3.6242</b> | <b>15.3350</b> | <b>33.1995</b> | <b>0.1247</b> | <b>9.8688</b> | <b>0.0949</b> | <b>9.9637</b> | <b>2.6381</b>  | <b>0.0883</b> | <b>2.7263</b> |          | <b>12,697.23<br/>39</b> | <b>12,697.23<br/>39</b> | <b>0.4665</b> |     | <b>12,708.89<br/>66</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        | 2,554.333<br>6         | 2,554.333<br>6         | 0.6120        |     | 2,569.632<br>2         |
| <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>2,554.333<br/>6</b> | <b>2,554.333<br/>6</b> | <b>0.6120</b> |     | <b>2,569.632<br/>2</b> |

## Village South Specific Plan (Proposed) - 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       | 0.4079        | 13.2032        | 3.4341         | 0.0364        | 0.9155        | 0.0248        | 0.9404        | 0.2636         | 0.0237        | 0.2873        |          | 3,896.548<br>2          | 3,896.548<br>2          | 0.2236        |     | 3,902.138<br>4          |
| Worker       | 3.2162        | 2.1318         | 29.7654        | 0.0883        | 8.9533        | 0.0701        | 9.0234        | 2.3745         | 0.0646        | 2.4390        |          | 8,800.685<br>7          | 8,800.685<br>7          | 0.2429        |     | 8,806.758<br>2          |
| <b>Total</b> | <b>3.6242</b> | <b>15.3350</b> | <b>33.1995</b> | <b>0.1247</b> | <b>9.8688</b> | <b>0.0949</b> | <b>9.9637</b> | <b>2.6381</b>  | <b>0.0883</b> | <b>2.7263</b> |          | <b>12,697.23<br/>39</b> | <b>12,697.23<br/>39</b> | <b>0.4665</b> |     | <b>12,708.89<br/>66</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.209<br>9         | 2,555.209<br>9         | 0.6079        |     | 2,570.406<br>1         |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.209<br/>9</b> | <b>2,555.209<br/>9</b> | <b>0.6079</b> |     | <b>2,570.406<br/>1</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2               | Total CO2               | CH4           | N2O | CO2e                    |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|-----|-------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                         |                         |               |     |                         |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                  | 0.0000                  | 0.0000        |     | 0.0000                  |
| Vendor       | 0.3027        | 10.0181        | 3.1014         | 0.0352        | 0.9156        | 0.0116        | 0.9271        | 0.2636         | 0.0111        | 0.2747        |          | 3,773.876<br>2          | 3,773.876<br>2          | 0.1982        |     | 3,778.830<br>0          |
| Worker       | 3.0203        | 1.9287         | 27.4113        | 0.0851        | 8.9533        | 0.0681        | 9.0214        | 2.3745         | 0.0627        | 2.4372        |          | 8,478.440<br>8          | 8,478.440<br>8          | 0.2190        |     | 8,483.916<br>0          |
| <b>Total</b> | <b>3.3229</b> | <b>11.9468</b> | <b>30.5127</b> | <b>0.1203</b> | <b>9.8688</b> | <b>0.0797</b> | <b>9.9485</b> | <b>2.6381</b>  | <b>0.0738</b> | <b>2.7118</b> |          | <b>12,252.31<br/>70</b> | <b>12,252.31<br/>70</b> | <b>0.4172</b> |     | <b>12,262.74<br/>60</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     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.209<br>9         | 2,555.209<br>9         | 0.6079        |     | 2,570.406<br>1         |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.209<br/>9</b> | <b>2,555.209<br/>9</b> | <b>0.6079</b> |     | <b>2,570.406<br/>1</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2               | Total CO2               | CH4           | N2O | CO2e                    |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------------|-------------------------|---------------|-----|-------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                         |                         |               |     |                         |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                  | 0.0000                  | 0.0000        |     | 0.0000                  |
| Vendor       | 0.3027        | 10.0181        | 3.1014         | 0.0352        | 0.9156        | 0.0116        | 0.9271        | 0.2636         | 0.0111        | 0.2747        |          | 3,773.876<br>2          | 3,773.876<br>2          | 0.1982        |     | 3,778.830<br>0          |
| Worker       | 3.0203        | 1.9287         | 27.4113        | 0.0851        | 8.9533        | 0.0681        | 9.0214        | 2.3745         | 0.0627        | 2.4372        |          | 8,478.440<br>8          | 8,478.440<br>8          | 0.2190        |     | 8,483.916<br>0          |
| <b>Total</b> | <b>3.3229</b> | <b>11.9468</b> | <b>30.5127</b> | <b>0.1203</b> | <b>9.8688</b> | <b>0.0797</b> | <b>9.9485</b> | <b>2.6381</b>  | <b>0.0738</b> | <b>2.7118</b> |          | <b>12,252.31<br/>70</b> | <b>12,252.31<br/>70</b> | <b>0.4172</b> |     | <b>12,262.74<br/>60</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        |          | 2,207.584<br>1         | 2,207.584<br>1         | 0.7140        |     | 2,225.433<br>6         |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> |          | <b>2,207.584<br/>1</b> | <b>2,207.584<br/>1</b> | <b>0.7140</b> |     | <b>2,225.433<br/>6</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0566        | 0.0361        | 0.5133        | 1.5900e-003        | 0.1677        | 1.2800e-003        | 0.1689        | 0.0445         | 1.1700e-003        | 0.0456        |          | 158.7723        | 158.7723        | 4.1000e-003        |     | 158.8748        |
| <b>Total</b> | <b>0.0566</b> | <b>0.0361</b> | <b>0.5133</b> | <b>1.5900e-003</b> | <b>0.1677</b> | <b>1.2800e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1700e-003</b> | <b>0.0456</b> |          | <b>158.7723</b> | <b>158.7723</b> | <b>4.1000e-003</b> |     | <b>158.8748</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     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        | 0.0000        | 2,207.5841        | 2,207.5841        | 0.7140        |     | 2,225.4336        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> | <b>0.0000</b> | <b>2,207.5841</b> | <b>2,207.5841</b> | <b>0.7140</b> |     | <b>2,225.4336</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0566        | 0.0361        | 0.5133        | 1.5900e-003        | 0.1677        | 1.2800e-003        | 0.1689        | 0.0445         | 1.1700e-003        | 0.0456        |          | 158.7723        | 158.7723        | 4.1000e-003        |     | 158.8748        |
| <b>Total</b> | <b>0.0566</b> | <b>0.0361</b> | <b>0.5133</b> | <b>1.5900e-003</b> | <b>0.1677</b> | <b>1.2800e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1700e-003</b> | <b>0.0456</b> |          | <b>158.7723</b> | <b>158.7723</b> | <b>4.1000e-003</b> |     | <b>158.8748</b> |

**3.6 Paving - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        |          | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> |          | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0535        | 0.0329        | 0.4785        | 1.5400e-003        | 0.1677        | 1.2600e-003        | 0.1689        | 0.0445         | 1.1600e-003        | 0.0456        |          | 153.8517        | 153.8517        | 3.7600e-003        |     | 153.9458        |
| <b>Total</b> | <b>0.0535</b> | <b>0.0329</b> | <b>0.4785</b> | <b>1.5400e-003</b> | <b>0.1677</b> | <b>1.2600e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1600e-003</b> | <b>0.0456</b> |          | <b>153.8517</b> | <b>153.8517</b> | <b>3.7600e-003</b> |     | <b>153.9458</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        | 0.0000        | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> | <b>0.0000</b> | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0535        | 0.0329        | 0.4785        | 1.5400e-003        | 0.1677        | 1.2600e-003        | 0.1689        | 0.0445         | 1.1600e-003        | 0.0456        |          | 153.8517        | 153.8517        | 3.7600e-003        |     | 153.9458        |
| <b>Total</b> | <b>0.0535</b> | <b>0.0329</b> | <b>0.4785</b> | <b>1.5400e-003</b> | <b>0.1677</b> | <b>1.2600e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1600e-003</b> | <b>0.0456</b> |          | <b>153.8517</b> | <b>153.8517</b> | <b>3.7600e-003</b> |     | <b>153.9458</b> |

**3.7 Architectural Coating - 2024****Unmitigated Construction On-Site**

|                 | ROG             | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day          |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.7 Architectural Coating - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.5707        | 0.3513        | 5.1044        | 0.0165        | 1.7884        | 0.0134        | 1.8018        | 0.4743         | 0.0123        | 0.4866        |          | 1,641.085<br>2         | 1,641.085<br>2         | 0.0401        |     | 1,642.088<br>6         |
| <b>Total</b> | <b>0.5707</b> | <b>0.3513</b> | <b>5.1044</b> | <b>0.0165</b> | <b>1.7884</b> | <b>0.0134</b> | <b>1.8018</b> | <b>0.4743</b>  | <b>0.0123</b> | <b>0.4866</b> |          | <b>1,641.085<br/>2</b> | <b>1,641.085<br/>2</b> | <b>0.0401</b> |     | <b>1,642.088<br/>6</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 | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        | 0.0000        | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.7 Architectural Coating - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.5707        | 0.3513        | 5.1044        | 0.0165        | 1.7884        | 0.0134        | 1.8018        | 0.4743         | 0.0123        | 0.4866        |          | 1,641.085<br>2         | 1,641.085<br>2         | 0.0401        |     | 1,642.088<br>6         |
| <b>Total</b> | <b>0.5707</b> | <b>0.3513</b> | <b>5.1044</b> | <b>0.0165</b> | <b>1.7884</b> | <b>0.0134</b> | <b>1.8018</b> | <b>0.4743</b>  | <b>0.0123</b> | <b>0.4866</b> |          | <b>1,641.085<br/>2</b> | <b>1,641.085<br/>2</b> | <b>0.0401</b> |     | <b>1,642.088<br/>6</b> |

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

## Village South Specific Plan (Proposed) - 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   | 9.8489 | 45.4304 | 114.8495 | 0.4917 | 45.9592       | 0.3360       | 46.2951    | 12.2950        | 0.3119        | 12.6070     |          | 50,306.60<br>34 | 50,306.60<br>34 | 2.1807 |     | 50,361.12<br>08 |
| Unmitigated | 9.8489 | 45.4304 | 114.8495 | 0.4917 | 45.9592       | 0.3360       | 46.2951    | 12.2950        | 0.3119        | 12.6070     |          | 50,306.60<br>34 | 50,306.60<br>34 | 2.1807 |     | 50,361.12<br>08 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise                 | 145.75                  | 154.25   | 154.00   | 506,227     | 506,227    |
| Apartments Mid Rise                 | 4,026.75                | 3,773.25 | 4075.50  | 13,660,065  | 13,660,065 |
| General Office Building             | 288.45                  | 62.55    | 31.05    | 706,812     | 706,812    |
| High Turnover (Sit Down Restaurant) | 2,368.80                | 2,873.52 | 2817.72  | 3,413,937   | 3,413,937  |
| Hotel                               | 192.00                  | 187.50   | 160.00   | 445,703     | 445,703    |
| Quality Restaurant                  | 501.12                  | 511.92   | 461.20   | 707,488     | 707,488    |
| Regional Shopping Center            | 528.08                  | 601.44   | 357.84   | 1,112,221   | 1,112,221  |
| Total                               | 8,050.95                | 8,164.43 | 8,057.31 | 20,552,452  | 20,552,452 |

## 4.3 Trip Type Information

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

| Land Use                 | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                          | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| Apartments Mid Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| General Office Building  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |
| High Turnover (Sit Down  | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Hotel                    | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Quality Restaurant       | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Regional Shopping Center | 16.60      | 8.40       | 6.90        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Apartments Mid Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| General Office Building             | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| High Turnover (Sit Down Restaurant) | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Hotel                               | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Quality Restaurant                  | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Regional Shopping Center            | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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## Village South Specific Plan (Proposed) - 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   |                |                |        |        |                |
| NaturalGas Mitigated   | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |
| NaturalGas Unmitigated | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1119.16        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35784.3        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1283.42        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22759.9        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4769.72        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5057.75        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 251.616        | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1.11916        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35.7843        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1.28342        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22.7599        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4.76972        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5.05775        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 0.251616       | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Village South Specific Plan (Proposed) - 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   | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |
| Unmitigated | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | lb/day         |                |                |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Architectural Coating | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

## Village South Specific Plan (Proposed) - 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 | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

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

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

**10.0 Stationary Equipment**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**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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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

## Village South Specific Plan (Proposed)

### Los Angeles-South Coast County, Winter

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 45.00  | 1000sqft      | 1.03        | 45,000.00          | 0          |
| High Turnover (Sit Down Restaurant) | 36.00  | 1000sqft      | 0.83        | 36,000.00          | 0          |
| Hotel                               | 50.00  | Room          | 1.67        | 72,600.00          | 0          |
| Quality Restaurant                  | 8.00   | 1000sqft      | 0.18        | 8,000.00           | 0          |
| Apartments Low Rise                 | 25.00  | Dwelling Unit | 1.56        | 25,000.00          | 72         |
| Apartments Mid Rise                 | 975.00 | Dwelling Unit | 25.66       | 975,000.00         | 2789       |
| Regional Shopping Center            | 56.00  | 1000sqft      | 1.29        | 56,000.00          | 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>          | 2028  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

| Table Name      | Column Name       | Default Value | New Value |
|-----------------|-------------------|---------------|-----------|
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | NumberWood        | 1.25          | 0.00      |
| tblFireplaces   | NumberWood        | 48.75         | 0.00      |
| tblVehicleTrips | ST_TR             | 7.16          | 6.17      |
| tblVehicleTrips | ST_TR             | 6.39          | 3.87      |
| tblVehicleTrips | ST_TR             | 2.46          | 1.39      |
| tblVehicleTrips | ST_TR             | 158.37        | 79.82     |
| tblVehicleTrips | ST_TR             | 8.19          | 3.75      |
| tblVehicleTrips | ST_TR             | 94.36         | 63.99     |
| tblVehicleTrips | ST_TR             | 49.97         | 10.74     |
| tblVehicleTrips | SU_TR             | 6.07          | 6.16      |
| tblVehicleTrips | SU_TR             | 5.86          | 4.18      |
| tblVehicleTrips | SU_TR             | 1.05          | 0.69      |
| tblVehicleTrips | SU_TR             | 131.84        | 78.27     |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| tblVehicleTrips | SU_TR              | 5.95   | 3.20  |
| tblVehicleTrips | SU_TR              | 72.16  | 57.65 |
| tblVehicleTrips | SU_TR              | 25.24  | 6.39  |
| tblVehicleTrips | WD_TR              | 6.59   | 5.83  |
| tblVehicleTrips | WD_TR              | 6.65   | 4.13  |
| tblVehicleTrips | WD_TR              | 11.03  | 6.41  |
| tblVehicleTrips | WD_TR              | 127.15 | 65.80 |
| tblVehicleTrips | WD_TR              | 8.17   | 3.84  |
| tblVehicleTrips | WD_TR              | 89.95  | 62.64 |
| tblVehicleTrips | WD_TR              | 42.70  | 9.43  |
| tblWoodstoves   | NumberCatalytic    | 1.25   | 0.00  |
| tblWoodstoves   | NumberCatalytic    | 48.75  | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 1.25   | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 48.75  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |

## 2.0 Emissions Summary

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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**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    | 4.2865   | 46.4651 | 31.6150 | 0.0642 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 6,221.4937  | 6,221.4937  | 1.9491 | 0.0000 | 6,270.2214  |
| 2022    | 5.7218   | 38.9024 | 47.3319 | 0.1455 | 9.8688        | 1.6366       | 10.7736    | 3.6558         | 1.5057        | 5.1615      | 0.0000   | 14,630.3099 | 14,630.3099 | 1.9499 | 0.0000 | 14,657.2663 |
| 2023    | 5.2705   | 26.4914 | 44.5936 | 0.1413 | 9.8688        | 0.7800       | 10.6488    | 2.6381         | 0.7328        | 3.3708      | 0.0000   | 14,210.3424 | 14,210.3424 | 1.0230 | 0.0000 | 14,235.9160 |
| 2024    | 237.2328 | 9.5610  | 15.0611 | 0.0243 | 1.7884        | 0.4698       | 1.8628     | 0.4743         | 0.4322        | 0.5476      | 0.0000   | 2,352.4178  | 2,352.4178  | 0.7175 | 0.0000 | 2,370.3550  |
| Maximum | 237.2328 | 46.4651 | 47.3319 | 0.1455 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 14,630.3099 | 14,630.3099 | 1.9499 | 0.0000 | 14,657.2663 |

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### 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    | 4.2865   | 46.4651 | 31.6150 | 0.0642 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 6,221.4937  | 6,221.4937  | 1.9491 | 0.0000 | 6,270.2214  |
| 2022    | 5.7218   | 38.9024 | 47.3319 | 0.1455 | 9.8688        | 1.6366       | 10.7736    | 3.6558         | 1.5057        | 5.1615      | 0.0000   | 14,630.3099 | 14,630.3099 | 1.9499 | 0.0000 | 14,657.2663 |
| 2023    | 5.2705   | 26.4914 | 44.5936 | 0.1413 | 9.8688        | 0.7800       | 10.6488    | 2.6381         | 0.7328        | 3.3708      | 0.0000   | 14,210.3424 | 14,210.3424 | 1.0230 | 0.0000 | 14,235.9160 |
| 2024    | 237.2328 | 9.5610  | 15.0611 | 0.0243 | 1.7884        | 0.4698       | 1.8628     | 0.4743         | 0.4322        | 0.5476      | 0.0000   | 2,352.4178  | 2,352.4178  | 0.7175 | 0.0000 | 2,370.3550  |
| Maximum | 237.2328 | 46.4651 | 47.3319 | 0.1455 | 18.2675       | 2.0461       | 20.3135    | 9.9840         | 1.8824        | 11.8664     | 0.0000   | 14,630.3099 | 14,630.3099 | 1.9499 | 0.0000 | 14,657.2663 |

[illegible]

## Village South Specific Plan (Proposed) - 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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.5233         | 45.9914        | 110.0422        | 0.4681        | 45.9592        | 0.3373        | 46.2965        | 12.2950        | 0.3132        | 12.6083        |               | 47,917.80<br>05         | 47,917.80<br>05         | 2.1953        |               | 47,972.68<br>39         |
| <b>Total</b> | <b>40.7912</b> | <b>67.7872</b> | <b>202.7424</b> | <b>0.6043</b> | <b>45.9592</b> | <b>2.4640</b> | <b>48.4231</b> | <b>12.2950</b> | <b>2.4399</b> | <b>14.7349</b> | <b>0.0000</b> | <b>74,422.37<br/>87</b> | <b>74,422.37<br/>87</b> | <b>2.8429</b> | <b>0.4832</b> | <b>74,637.44<br/>17</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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.5233         | 45.9914        | 110.0422        | 0.4681        | 45.9592        | 0.3373        | 46.2965        | 12.2950        | 0.3132        | 12.6083        |               | 47,917.80<br>05         | 47,917.80<br>05         | 2.1953        |               | 47,972.68<br>39         |
| <b>Total</b> | <b>40.7912</b> | <b>67.7872</b> | <b>202.7424</b> | <b>0.6043</b> | <b>45.9592</b> | <b>2.4640</b> | <b>48.4231</b> | <b>12.2950</b> | <b>2.4399</b> | <b>14.7349</b> | <b>0.0000</b> | <b>74,422.37<br/>87</b> | <b>74,422.37<br/>87</b> | <b>2.8429</b> | <b>0.4832</b> | <b>74,637.44<br/>17</b> |

## Village South Specific Plan (Proposed) - 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

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 9/1/2021   | 10/12/2021 | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 10/13/2021 | 11/9/2021  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 11/10/2021 | 1/11/2022  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 1/12/2022  | 12/12/2023 | 5             | 500      |                   |
| 5            | Paving                | Paving                | 12/13/2023 | 1/30/2024  | 5             | 35       |                   |
| 6            | Architectural Coating | Architectural Coating | 1/31/2024  | 3/19/2024  | 5             | 35       |                   |

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

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 0**

**Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

## Village South Specific Plan (Proposed) - 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      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

## Village South Specific Plan (Proposed) - 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               | 458.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 801.00             | 143.00             | 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                       | 160.00             | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## 3.1 Mitigation Measures Construction

## 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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |          |                   | 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>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1304        | 4.1454        | 1.0182        | 0.0117        | 0.2669        | 0.0128        | 0.2797        | 0.0732         | 0.0122        | 0.0854        |          | 1,269.855<br>5         | 1,269.855<br>5         | 0.0908        |     | 1,272.125<br>2         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.0715        | 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>0.2019</b> | <b>4.1943</b> | <b>1.5706</b> | <b>0.0133</b> | <b>0.4346</b> | <b>0.0141</b> | <b>0.4487</b> | <b>0.1176</b>  | <b>0.0135</b> | <b>0.1311</b> |          | <b>1,430.693<br/>2</b> | <b>1,430.693<br/>2</b> | <b>0.0955</b> |     | <b>1,433.081<br/>2</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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        | 0.0000        | 3,747.944<br>9         | 3,747.944<br>9         | 1.0549        |     | 3,774.317<br>4         |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> | <b>0.0000</b> | <b>3,747.944<br/>9</b> | <b>3,747.944<br/>9</b> | <b>1.0549</b> |     | <b>3,774.317<br/>4</b> |



## Village South Specific Plan (Proposed) - 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      | 0.1304        | 4.1454        | 1.0182        | 0.0117        | 0.2669        | 0.0128        | 0.2797        | 0.0732         | 0.0122        | 0.0854        |          | 1,269.855<br>5         | 1,269.855<br>5         | 0.0908        |     | 1,272.125<br>2         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.0715        | 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>0.2019</b> | <b>4.1943</b> | <b>1.5706</b> | <b>0.0133</b> | <b>0.4346</b> | <b>0.0141</b> | <b>0.4487</b> | <b>0.1176</b>  | <b>0.0135</b> | <b>0.1311</b> |          | <b>1,430.693<br/>2</b> | <b>1,430.693<br/>2</b> | <b>0.0955</b> |     | <b>1,433.081<br/>2</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      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         |          | 3,685.656<br>9         | 3,685.656<br>9         | 1.1920        |     | 3,715.457<br>3         |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> |          | <b>3,685.656<br/>9</b> | <b>3,685.656<br/>9</b> | <b>1.1920</b> |     | <b>3,715.457<br/>3</b> |

## Village South Specific Plan (Proposed) - 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 |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         | 0.0000        | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715,4573        |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> | <b>0.0000</b> | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715,4573</b> |

## Village South Specific Plan (Proposed) - 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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        |          | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> |          | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>0.0954</b> | <b>0.0652</b> | <b>0.7365</b> | <b>2.1500e-003</b> | <b>0.2236</b> | <b>1.8100e-003</b> | <b>0.2254</b> | <b>0.0593</b>  | <b>1.6600e-003</b> | <b>0.0610</b> |          | <b>214.4502</b> | <b>214.4502</b> | <b>6.3100e-003</b> |     | <b>214.6080</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        | 0.0000        | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> | <b>0.0000</b> | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>0.0954</b> | <b>0.0652</b> | <b>0.7365</b> | <b>2.1500e-003</b> | <b>0.2236</b> | <b>1.8100e-003</b> | <b>0.2254</b> | <b>0.0593</b>  | <b>1.6600e-003</b> | <b>0.0610</b> |          | <b>214.4502</b> | <b>214.4502</b> | <b>6.3100e-003</b> |     | <b>214.6080</b> |

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

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        |          | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> |          | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0896        | 0.0589        | 0.6784        | 2.0800e-003        | 0.2236        | 1.7500e-003        | 0.2253        | 0.0593         | 1.6100e-003        | 0.0609        |          | 206.9139        | 206.9139        | 5.7000e-003        |     | 207.0563        |
| <b>Total</b> | <b>0.0896</b> | <b>0.0589</b> | <b>0.6784</b> | <b>2.0800e-003</b> | <b>0.2236</b> | <b>1.7500e-003</b> | <b>0.2253</b> | <b>0.0593</b>  | <b>1.6100e-003</b> | <b>0.0609</b> |          | <b>206.9139</b> | <b>206.9139</b> | <b>5.7000e-003</b> |     | <b>207.0563</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        | 0.0000        | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> | <b>0.0000</b> | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0896        | 0.0589        | 0.6784        | 2.0800e-003        | 0.2236        | 1.7500e-003        | 0.2253        | 0.0593         | 1.6100e-003        | 0.0609        |          | 206.9139        | 206.9139        | 5.7000e-003        |     | 207.0563        |
| <b>Total</b> | <b>0.0896</b> | <b>0.0589</b> | <b>0.6784</b> | <b>2.0800e-003</b> | <b>0.2236</b> | <b>1.7500e-003</b> | <b>0.2253</b> | <b>0.0593</b>  | <b>1.6100e-003</b> | <b>0.0609</b> |          | <b>206.9139</b> | <b>206.9139</b> | <b>5.7000e-003</b> |     | <b>207.0563</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> |

## Village South Specific Plan (Proposed) - 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       | 0.4284        | 13.1673        | 3.8005         | 0.0354        | 0.9155        | 0.0256        | 0.9412        | 0.2636         | 0.0245        | 0.2881        |          | 3,789.075<br>0          | 3,789.075<br>0          | 0.2381        |     | 3,795.028<br>3          |
| Worker       | 3.5872        | 2.3593         | 27.1680        | 0.0832        | 8.9533        | 0.0701        | 9.0234        | 2.3745         | 0.0646        | 2.4390        |          | 8,286.901<br>3          | 8,286.901<br>3          | 0.2282        |     | 8,292.605<br>8          |
| <b>Total</b> | <b>4.0156</b> | <b>15.5266</b> | <b>30.9685</b> | <b>0.1186</b> | <b>9.8688</b> | <b>0.0957</b> | <b>9.9645</b> | <b>2.6381</b>  | <b>0.0891</b> | <b>2.7271</b> |          | <b>12,075.97<br/>63</b> | <b>12,075.97<br/>63</b> | <b>0.4663</b> |     | <b>12,087.63<br/>41</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        | 2,554.333<br>6         | 2,554.333<br>6         | 0.6120        |     | 2,569.632<br>2         |
| <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>2,554.333<br/>6</b> | <b>2,554.333<br/>6</b> | <b>0.6120</b> |     | <b>2,569.632<br/>2</b> |



## Village South Specific Plan (Proposed) - 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       | 0.4284        | 13.1673        | 3.8005         | 0.0354        | 0.9155        | 0.0256        | 0.9412        | 0.2636         | 0.0245        | 0.2881        |          | 3,789.0750         | 3,789.0750         | 0.2381        |     | 3,795.0283         |
| Worker       | 3.5872        | 2.3593         | 27.1680        | 0.0832        | 8.9533        | 0.0701        | 9.0234        | 2.3745         | 0.0646        | 2.4390        |          | 8,286.9013         | 8,286.9013         | 0.2282        |     | 8,292.6058         |
| <b>Total</b> | <b>4.0156</b> | <b>15.5266</b> | <b>30.9685</b> | <b>0.1186</b> | <b>9.8688</b> | <b>0.0957</b> | <b>9.9645</b> | <b>2.6381</b>  | <b>0.0891</b> | <b>2.7271</b> |          | <b>12,075.9763</b> | <b>12,075.9763</b> | <b>0.4663</b> |     | <b>12,087.6341</b> |

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

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

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Vendor       | 0.3183        | 9.9726         | 3.3771         | 0.0343        | 0.9156        | 0.0122        | 0.9277        | 0.2636         | 0.0116        | 0.2752        |          | 3,671.4007         | 3,671.4007         | 0.2096        |     | 3,676.6417         |
| Worker       | 3.3795        | 2.1338         | 24.9725        | 0.0801        | 8.9533        | 0.0681        | 9.0214        | 2.3745         | 0.0627        | 2.4372        |          | 7,983.7318         | 7,983.7318         | 0.2055        |     | 7,988.8683         |
| <b>Total</b> | <b>3.6978</b> | <b>12.1065</b> | <b>28.3496</b> | <b>0.1144</b> | <b>9.8688</b> | <b>0.0803</b> | <b>9.9491</b> | <b>2.6381</b>  | <b>0.0743</b> | <b>2.7124</b> |          | <b>11,655.1325</b> | <b>11,655.1325</b> | <b>0.4151</b> |     | <b>11,665.5099</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     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Vendor       | 0.3183        | 9.9726         | 3.3771         | 0.0343        | 0.9156        | 0.0122        | 0.9277        | 0.2636         | 0.0116        | 0.2752        |          | 3,671.4007         | 3,671.4007         | 0.2096        |     | 3,676.6417         |
| Worker       | 3.3795        | 2.1338         | 24.9725        | 0.0801        | 8.9533        | 0.0681        | 9.0214        | 2.3745         | 0.0627        | 2.4372        |          | 7,983.7318         | 7,983.7318         | 0.2055        |     | 7,988.8683         |
| <b>Total</b> | <b>3.6978</b> | <b>12.1065</b> | <b>28.3496</b> | <b>0.1144</b> | <b>9.8688</b> | <b>0.0803</b> | <b>9.9491</b> | <b>2.6381</b>  | <b>0.0743</b> | <b>2.7124</b> |          | <b>11,655.1325</b> | <b>11,655.1325</b> | <b>0.4151</b> |     | <b>11,665.5099</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        |          | 2,207.5841        | 2,207.5841        | 0.7140        |     | 2,225.4336        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> |          | <b>2,207.5841</b> | <b>2,207.5841</b> | <b>0.7140</b> |     | <b>2,225.4336</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0633        | 0.0400        | 0.4677        | 1.5000e-003        | 0.1677        | 1.2800e-003        | 0.1689        | 0.0445         | 1.1700e-003        | 0.0456        |          | 149.5081        | 149.5081        | 3.8500e-003        |     | 149.6043        |
| <b>Total</b> | <b>0.0633</b> | <b>0.0400</b> | <b>0.4677</b> | <b>1.5000e-003</b> | <b>0.1677</b> | <b>1.2800e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1700e-003</b> | <b>0.0456</b> |          | <b>149.5081</b> | <b>149.5081</b> | <b>3.8500e-003</b> |     | <b>149.6043</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     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        | 0.0000        | 2,207.5841        | 2,207.5841        | 0.7140        |     | 2,225.4336        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> | <b>0.0000</b> | <b>2,207.5841</b> | <b>2,207.5841</b> | <b>0.7140</b> |     | <b>2,225.4336</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0633        | 0.0400        | 0.4677        | 1.5000e-003        | 0.1677        | 1.2800e-003        | 0.1689        | 0.0445         | 1.1700e-003        | 0.0456        |          | 149.5081        | 149.5081        | 3.8500e-003        |     | 149.6043        |
| <b>Total</b> | <b>0.0633</b> | <b>0.0400</b> | <b>0.4677</b> | <b>1.5000e-003</b> | <b>0.1677</b> | <b>1.2800e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1700e-003</b> | <b>0.0456</b> |          | <b>149.5081</b> | <b>149.5081</b> | <b>3.8500e-003</b> |     | <b>149.6043</b> |

**3.6 Paving - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        |          | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> |          | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0601        | 0.0364        | 0.4354        | 1.4500e-003        | 0.1677        | 1.2600e-003        | 0.1689        | 0.0445         | 1.1600e-003        | 0.0456        |          | 144.8706        | 144.8706        | 3.5300e-003        |     | 144.9587        |
| <b>Total</b> | <b>0.0601</b> | <b>0.0364</b> | <b>0.4354</b> | <b>1.4500e-003</b> | <b>0.1677</b> | <b>1.2600e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1600e-003</b> | <b>0.0456</b> |          | <b>144.8706</b> | <b>144.8706</b> | <b>3.5300e-003</b> |     | <b>144.9587</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        | 0.0000        | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> | <b>0.0000</b> | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0601        | 0.0364        | 0.4354        | 1.4500e-003        | 0.1677        | 1.2600e-003        | 0.1689        | 0.0445         | 1.1600e-003        | 0.0456        |          | 144.8706        | 144.8706        | 3.5300e-003        |     | 144.9587        |
| <b>Total</b> | <b>0.0601</b> | <b>0.0364</b> | <b>0.4354</b> | <b>1.4500e-003</b> | <b>0.1677</b> | <b>1.2600e-003</b> | <b>0.1689</b> | <b>0.0445</b>  | <b>1.1600e-003</b> | <b>0.0456</b> |          | <b>144.8706</b> | <b>144.8706</b> | <b>3.5300e-003</b> |     | <b>144.9587</b> |

**3.7 Architectural Coating - 2024****Unmitigated Construction On-Site**

|                 | ROG             | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day          |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.6406        | 0.3886        | 4.6439        | 0.0155        | 1.7884        | 0.0134        | 1.8018        | 0.4743         | 0.0123        | 0.4866        |          | 1,545.286<br>0         | 1,545.286<br>0         | 0.0376        |     | 1,546.226<br>2         |
| <b>Total</b> | <b>0.6406</b> | <b>0.3886</b> | <b>4.6439</b> | <b>0.0155</b> | <b>1.7884</b> | <b>0.0134</b> | <b>1.8018</b> | <b>0.4743</b>  | <b>0.0123</b> | <b>0.4866</b> |          | <b>1,545.286<br/>0</b> | <b>1,545.286<br/>0</b> | <b>0.0376</b> |     | <b>1,546.226<br/>2</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 | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        | 0.0000        | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.6406        | 0.3886        | 4.6439        | 0.0155        | 1.7884        | 0.0134        | 1.8018        | 0.4743         | 0.0123        | 0.4866        |          | 1,545.286<br>0         | 1,545.286<br>0         | 0.0376        |     | 1,546.226<br>2         |
| <b>Total</b> | <b>0.6406</b> | <b>0.3886</b> | <b>4.6439</b> | <b>0.0155</b> | <b>1.7884</b> | <b>0.0134</b> | <b>1.8018</b> | <b>0.4743</b>  | <b>0.0123</b> | <b>0.4866</b> |          | <b>1,545.286<br/>0</b> | <b>1,545.286<br/>0</b> | <b>0.0376</b> |     | <b>1,546.226<br/>2</b> |

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

## Village South Specific Plan (Proposed) - 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   | 9.5233 | 45.9914 | 110.0422 | 0.4681 | 45.9592       | 0.3373       | 46.2965    | 12.2950        | 0.3132        | 12.6083     |          | 47,917.8005 | 47,917.8005 | 2.1953 |     | 47,972.6839 |
| Unmitigated | 9.5233 | 45.9914 | 110.0422 | 0.4681 | 45.9592       | 0.3373       | 46.2965    | 12.2950        | 0.3132        | 12.6083     |          | 47,917.8005 | 47,917.8005 | 2.1953 |     | 47,972.6839 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise                 | 145.75                  | 154.25   | 154.00   | 506,227     | 506,227    |
| Apartments Mid Rise                 | 4,026.75                | 3,773.25 | 4,075.50 | 13,660,065  | 13,660,065 |
| General Office Building             | 288.45                  | 62.55    | 31.05    | 706,812     | 706,812    |
| High Turnover (Sit Down Restaurant) | 2,368.80                | 2,873.52 | 2,817.72 | 3,413,937   | 3,413,937  |
| Hotel                               | 192.00                  | 187.50   | 160.00   | 445,703     | 445,703    |
| Quality Restaurant                  | 501.12                  | 511.92   | 461.20   | 707,488     | 707,488    |
| Regional Shopping Center            | 528.08                  | 601.44   | 357.84   | 1,112,221   | 1,112,221  |
| Total                               | 8,050.95                | 8,164.43 | 8,057.31 | 20,552,452  | 20,552,452 |

## 4.3 Trip Type Information

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

| Land Use                 | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                          | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| Apartments Mid Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| General Office Building  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |
| High Turnover (Sit Down  | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Hotel                    | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Quality Restaurant       | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Regional Shopping Center | 16.60      | 8.40       | 6.90        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Apartments Mid Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| General Office Building             | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| High Turnover (Sit Down Restaurant) | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Hotel                               | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Quality Restaurant                  | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Regional Shopping Center            | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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## Village South Specific Plan (Proposed) - 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   |                |                |        |        |                |
| NaturalGas Mitigated   | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |
| NaturalGas Unmitigated | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1119.16        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35784.3        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1283.42        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22759.9        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4769.72        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5057.75        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 251.616        | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1.11916        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35.7843        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1.28342        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22.7599        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4.76972        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5.05775        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 0.251616       | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Village South Specific Plan (Proposed) - 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   | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |
| Unmitigated | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | lb/day         |                |                |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Architectural Coating | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

## Village South Specific Plan (Proposed) - 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 | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

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

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

**10.0 Stationary Equipment**



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**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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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

## Village South Specific Plan (Proposed)

### Los Angeles-South Coast County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 45.00  | 1000sqft      | 1.03        | 45,000.00          | 0          |
| High Turnover (Sit Down Restaurant) | 36.00  | 1000sqft      | 0.83        | 36,000.00          | 0          |
| Hotel                               | 50.00  | Room          | 1.67        | 72,600.00          | 0          |
| Quality Restaurant                  | 8.00   | 1000sqft      | 0.18        | 8,000.00           | 0          |
| Apartments Low Rise                 | 25.00  | Dwelling Unit | 1.56        | 25,000.00          | 72         |
| Apartments Mid Rise                 | 975.00 | Dwelling Unit | 25.66       | 975,000.00         | 2789       |
| Regional Shopping Center            | 56.00  | 1000sqft      | 1.29        | 56,000.00          | 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>          | 2028  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

| Table Name      | Column Name       | Default Value | New Value |
|-----------------|-------------------|---------------|-----------|
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | NumberWood        | 1.25          | 0.00      |
| tblFireplaces   | NumberWood        | 48.75         | 0.00      |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblVehicleTrips | ST_TR             | 7.16          | 6.17      |
| tblVehicleTrips | ST_TR             | 6.39          | 3.87      |
| tblVehicleTrips | ST_TR             | 2.46          | 1.39      |
| tblVehicleTrips | ST_TR             | 158.37        | 79.82     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| tblVehicleTrips | ST_TR              | 8.19   | 3.75  |
| tblVehicleTrips | ST_TR              | 94.36  | 63.99 |
| tblVehicleTrips | ST_TR              | 49.97  | 10.74 |
| tblVehicleTrips | SU_TR              | 6.07   | 6.16  |
| tblVehicleTrips | SU_TR              | 5.86   | 4.18  |
| tblVehicleTrips | SU_TR              | 1.05   | 0.69  |
| tblVehicleTrips | SU_TR              | 131.84 | 78.27 |
| tblVehicleTrips | SU_TR              | 5.95   | 3.20  |
| tblVehicleTrips | SU_TR              | 72.16  | 57.65 |
| tblVehicleTrips | SU_TR              | 25.24  | 6.39  |
| tblVehicleTrips | WD_TR              | 6.59   | 5.83  |
| tblVehicleTrips | WD_TR              | 6.65   | 4.13  |
| tblVehicleTrips | WD_TR              | 11.03  | 6.41  |
| tblVehicleTrips | WD_TR              | 127.15 | 65.80 |
| tblVehicleTrips | WD_TR              | 8.17   | 3.84  |
| tblVehicleTrips | WD_TR              | 89.95  | 62.64 |
| tblVehicleTrips | WD_TR              | 42.70  | 9.43  |
| tblWoodstoves   | NumberCatalytic    | 1.25   | 0.00  |
| tblWoodstoves   | NumberCatalytic    | 48.75  | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 1.25   | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 48.75  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |

## 2.0 Emissions Summary

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**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    | 0.1704  | 1.8234 | 1.1577 | 2.3800e-003 | 0.4141        | 0.0817       | 0.4958     | 0.1788         | 0.0754        | 0.2542      | 0.0000   | 210.7654   | 210.7654   | 0.0600      | 0.0000 | 212.2661   |
| 2022    | 0.5865  | 4.0240 | 5.1546 | 0.0155      | 0.9509        | 0.1175       | 1.0683     | 0.2518         | 0.1103        | 0.3621      | 0.0000   | 1,418.6554 | 1,418.6554 | 0.1215      | 0.0000 | 1,421.6925 |
| 2023    | 0.5190  | 3.2850 | 4.7678 | 0.0147      | 0.8497        | 0.0971       | 0.9468     | 0.2283         | 0.0912        | 0.3195      | 0.0000   | 1,342.4412 | 1,342.4412 | 0.1115      | 0.0000 | 1,345.2291 |
| 2024    | 4.1592  | 0.1313 | 0.2557 | 5.0000e-004 | 0.0221        | 6.3900e-003  | 0.0285     | 5.8700e-003    | 5.9700e-003   | 0.0118      | 0.0000   | 44.6355    | 44.6355    | 7.8300e-003 | 0.0000 | 44.8311    |
| Maximum | 4.1592  | 4.0240 | 5.1546 | 0.0155      | 0.9509        | 0.1175       | 1.0683     | 0.2518         | 0.1103        | 0.3621      | 0.0000   | 1,418.6554 | 1,418.6554 | 0.1215      | 0.0000 | 1,421.6925 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**2.1 Overall Construction****Mitigated Construction**

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |        |            |
| 2021    | 0.1704  | 1.8234 | 1.1577 | 2.3800e-003 | 0.4141        | 0.0817       | 0.4958     | 0.1788         | 0.0754        | 0.2542      | 0.0000   | 210.7651   | 210.7651   | 0.0600      | 0.0000 | 212.2658   |
| 2022    | 0.5865  | 4.0240 | 5.1546 | 0.0155      | 0.9509        | 0.1175       | 1.0683     | 0.2518         | 0.1103        | 0.3621      | 0.0000   | 1,418.6550 | 1,418.6550 | 0.1215      | 0.0000 | 1,421.6921 |
| 2023    | 0.5190  | 3.2850 | 4.7678 | 0.0147      | 0.8497        | 0.0971       | 0.9468     | 0.2283         | 0.0912        | 0.3195      | 0.0000   | 1,342.4409 | 1,342.4409 | 0.1115      | 0.0000 | 1,345.2287 |
| 2024    | 4.1592  | 0.1313 | 0.2557 | 5.0000e-004 | 0.0221        | 6.3900e-003  | 0.0285     | 5.8700e-003    | 5.9700e-003   | 0.0118      | 0.0000   | 44.6354    | 44.6354    | 7.8300e-003 | 0.0000 | 44.8311    |
| Maximum | 4.1592  | 4.0240 | 5.1546 | 0.0155      | 0.9509        | 0.1175       | 1.0683     | 0.2518         | 0.1103        | 0.3621      | 0.0000   | 1,418.6550 | 1,418.6550 | 0.1215      | 0.0000 | 1,421.6921 |

|                   | ROG  | NOx  | CO   | SO2  | 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 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1       | 9-1-2021   | 11-30-2021 | 1.4091                                       | 1.4091                                     |
| 2       | 12-1-2021  | 2-28-2022  | 1.3329                                       | 1.3329                                     |
| 3       | 3-1-2022   | 5-31-2022  | 1.1499                                       | 1.1499                                     |
| 4       | 6-1-2022   | 8-31-2022  | 1.1457                                       | 1.1457                                     |
| 5       | 9-1-2022   | 11-30-2022 | 1.1415                                       | 1.1415                                     |
| 6       | 12-1-2022  | 2-28-2023  | 1.0278                                       | 1.0278                                     |
| 7       | 3-1-2023   | 5-31-2023  | 0.9868                                       | 0.9868                                     |
| 8       | 6-1-2023   | 8-31-2023  | 0.9831                                       | 0.9831                                     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

|    |           |            |        |        |
|----|-----------|------------|--------|--------|
| 9  | 9-1-2023  | 11-30-2023 | 0.9798 | 0.9798 |
| 10 | 12-1-2023 | 2-29-2024  | 2.8757 | 2.8757 |
| 11 | 3-1-2024  | 5-31-2024  | 1.6188 | 1.6188 |
|    |           | Highest    | 2.8757 | 2.8757 |

## 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         | 5.1437        | 0.2950        | 10.3804        | 1.6700e-003   |               | 0.0714        | 0.0714        |                | 0.0714        | 0.0714        | 0.0000          | 220.9670           | 220.9670           | 0.0201         | 3.7400e-003   | 222.5835           |
| Energy       | 0.1398        | 1.2312        | 0.7770         | 7.6200e-003   |               | 0.0966        | 0.0966        |                | 0.0966        | 0.0966        | 0.0000          | 3,896.0732         | 3,896.0732         | 0.1303         | 0.0468        | 3,913.2833         |
| Mobile       | 1.5857        | 7.9962        | 19.1834        | 0.0821        | 7.7979        | 0.0580        | 7.8559        | 2.0895         | 0.0539        | 2.1434        | 0.0000          | 7,620.4986         | 7,620.4986         | 0.3407         | 0.0000        | 7,629.0162         |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 207.8079        | 0.0000             | 207.8079           | 12.2811        | 0.0000        | 514.8354           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 29.1632         | 556.6420           | 585.8052           | 3.0183         | 0.0755        | 683.7567           |
| <b>Total</b> | <b>6.8692</b> | <b>9.5223</b> | <b>30.3407</b> | <b>0.0914</b> | <b>7.7979</b> | <b>0.2260</b> | <b>8.0240</b> | <b>2.0895</b>  | <b>0.2219</b> | <b>2.3114</b> | <b>236.9712</b> | <b>12,294.1807</b> | <b>12,531.1519</b> | <b>15.7904</b> | <b>0.1260</b> | <b>12,963.4751</b> |

## Village South Specific Plan (Proposed) - 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         | 5.1437        | 0.2950        | 10.3804        | 1.6700e-003   |               | 0.0714        | 0.0714        |                | 0.0714        | 0.0714        | 0.0000          | 220.9670           | 220.9670           | 0.0201         | 3.7400e-003   | 222.5835           |
| Energy       | 0.1398        | 1.2312        | 0.7770         | 7.6200e-003   |               | 0.0966        | 0.0966        |                | 0.0966        | 0.0966        | 0.0000          | 3,896.0732         | 3,896.0732         | 0.1303         | 0.0468        | 3,913.2833         |
| Mobile       | 1.5857        | 7.9962        | 19.1834        | 0.0821        | 7.7979        | 0.0580        | 7.8559        | 2.0895         | 0.0539        | 2.1434        | 0.0000          | 7,620.4986         | 7,620.4986         | 0.3407         | 0.0000        | 7,629.0162         |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 207.8079        | 0.0000             | 207.8079           | 12.2811        | 0.0000        | 514.8354           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 29.1632         | 556.6420           | 585.8052           | 3.0183         | 0.0755        | 683.7567           |
| <b>Total</b> | <b>6.8692</b> | <b>9.5223</b> | <b>30.3407</b> | <b>0.0914</b> | <b>7.7979</b> | <b>0.2260</b> | <b>8.0240</b> | <b>2.0895</b>  | <b>0.2219</b> | <b>2.3114</b> | <b>236.9712</b> | <b>12,294.1807</b> | <b>12,531.1519</b> | <b>15.7904</b> | <b>0.1260</b> | <b>12,963.4751</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>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

**3.0 Construction Detail****Construction Phase**



## Village South Specific Plan (Proposed) - 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            | 9/1/2021   | 10/12/2021 | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 10/13/2021 | 11/9/2021  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 11/10/2021 | 1/11/2022  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 1/12/2022  | 12/12/2023 | 5             | 500      |                   |
| 5            | Paving                | Paving                | 12/13/2023 | 1/30/2024  | 5             | 35       |                   |
| 6            | Architectural Coating | Architectural Coating | 1/31/2024  | 3/19/2024  | 5             | 35       |                   |

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

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 0**

**Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Village South Specific Plan (Proposed) - 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      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

## Village South Specific Plan (Proposed) - 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               | 458.00              | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 801.00             | 143.00             | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 160.00             | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## 3.1 Mitigation Measures Construction

## 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 |               |               |               |                    | 0.0496        | 0.0000        | 0.0496        | 7.5100e-003        | 0.0000        | 7.5100e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0475        | 0.4716        | 0.3235        | 5.8000e-004        |               | 0.0233        | 0.0233        |                    | 0.0216        | 0.0216        | 0.0000        | 51.0012        | 51.0012        | 0.0144        | 0.0000        | 51.3601        |
| <b>Total</b>  | <b>0.0475</b> | <b>0.4716</b> | <b>0.3235</b> | <b>5.8000e-004</b> | <b>0.0496</b> | <b>0.0233</b> | <b>0.0729</b> | <b>7.5100e-003</b> | <b>0.0216</b> | <b>0.0291</b> | <b>0.0000</b> | <b>51.0012</b> | <b>51.0012</b> | <b>0.0144</b> | <b>0.0000</b> | <b>51.3601</b> |

## Village South Specific Plan (Proposed) - 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      | 1.9300e-003        | 0.0634        | 0.0148        | 1.8000e-004        | 3.9400e-003        | 1.9000e-004        | 4.1300e-003        | 1.0800e-003        | 1.8000e-004        | 1.2600e-003        | 0.0000        | 17.4566        | 17.4566        | 1.2100e-003        | 0.0000        | 17.4869        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 7.2000e-004        | 5.3000e-004   | 6.0900e-003   | 2.0000e-005        | 1.6800e-003        | 1.0000e-005        | 1.6900e-003        | 4.5000e-004        | 1.0000e-005        | 4.6000e-004        | 0.0000        | 1.5281         | 1.5281         | 5.0000e-005        | 0.0000        | 1.5293         |
| <b>Total</b> | <b>2.6500e-003</b> | <b>0.0639</b> | <b>0.0209</b> | <b>2.0000e-004</b> | <b>5.6200e-003</b> | <b>2.0000e-004</b> | <b>5.8200e-003</b> | <b>1.5300e-003</b> | <b>1.9000e-004</b> | <b>1.7200e-003</b> | <b>0.0000</b> | <b>18.9847</b> | <b>18.9847</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>19.0161</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 |               |               |               |                    | 0.0496        | 0.0000        | 0.0496        | 7.5100e-003        | 0.0000        | 7.5100e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0475        | 0.4716        | 0.3235        | 5.8000e-004        |               | 0.0233        | 0.0233        |                    | 0.0216        | 0.0216        | 0.0000        | 51.0011        | 51.0011        | 0.0144        | 0.0000        | 51.3600        |
| <b>Total</b>  | <b>0.0475</b> | <b>0.4716</b> | <b>0.3235</b> | <b>5.8000e-004</b> | <b>0.0496</b> | <b>0.0233</b> | <b>0.0729</b> | <b>7.5100e-003</b> | <b>0.0216</b> | <b>0.0291</b> | <b>0.0000</b> | <b>51.0011</b> | <b>51.0011</b> | <b>0.0144</b> | <b>0.0000</b> | <b>51.3600</b> |

## Village South Specific Plan (Proposed) - 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      | 1.9300e-003        | 0.0634        | 0.0148        | 1.8000e-004        | 3.9400e-003        | 1.9000e-004        | 4.1300e-003        | 1.0800e-003        | 1.8000e-004        | 1.2600e-003        | 0.0000        | 17.4566        | 17.4566        | 1.2100e-003        | 0.0000        | 17.4869        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 7.2000e-004        | 5.3000e-004   | 6.0900e-003   | 2.0000e-005        | 1.6800e-003        | 1.0000e-005        | 1.6900e-003        | 4.5000e-004        | 1.0000e-005        | 4.6000e-004        | 0.0000        | 1.5281         | 1.5281         | 5.0000e-005        | 0.0000        | 1.5293         |
| <b>Total</b> | <b>2.6500e-003</b> | <b>0.0639</b> | <b>0.0209</b> | <b>2.0000e-004</b> | <b>5.6200e-003</b> | <b>2.0000e-004</b> | <b>5.8200e-003</b> | <b>1.5300e-003</b> | <b>1.9000e-004</b> | <b>1.7200e-003</b> | <b>0.0000</b> | <b>18.9847</b> | <b>18.9847</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>19.0161</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 |               |               |               |                    | 0.1807        | 0.0000        | 0.1807        | 0.0993         | 0.0000        | 0.0993        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0389        | 0.4050        | 0.2115        | 3.8000e-004        |               | 0.0204        | 0.0204        |                | 0.0188        | 0.0188        | 0.0000        | 33.4357        | 33.4357        | 0.0108        | 0.0000        | 33.7061        |
| <b>Total</b>  | <b>0.0389</b> | <b>0.4050</b> | <b>0.2115</b> | <b>3.8000e-004</b> | <b>0.1807</b> | <b>0.0204</b> | <b>0.2011</b> | <b>0.0993</b>  | <b>0.0188</b> | <b>0.1181</b> | <b>0.0000</b> | <b>33.4357</b> | <b>33.4357</b> | <b>0.0108</b> | <b>0.0000</b> | <b>33.7061</b> |

## Village South Specific Plan (Proposed) - 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       | 5.8000e-004        | 4.3000e-004        | 4.8700e-003        | 1.0000e-005        | 1.3400e-003        | 1.0000e-005        | 1.3500e-003        | 3.6000e-004        | 1.0000e-005        | 3.7000e-004        | 0.0000        | 1.2225        | 1.2225        | 4.0000e-005        | 0.0000        | 1.2234        |
| <b>Total</b> | <b>5.8000e-004</b> | <b>4.3000e-004</b> | <b>4.8700e-003</b> | <b>1.0000e-005</b> | <b>1.3400e-003</b> | <b>1.0000e-005</b> | <b>1.3500e-003</b> | <b>3.6000e-004</b> | <b>1.0000e-005</b> | <b>3.7000e-004</b> | <b>0.0000</b> | <b>1.2225</b> | <b>1.2225</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.2234</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 |               |               |               |                    | 0.1807        | 0.0000        | 0.1807        | 0.0993         | 0.0000        | 0.0993        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0389        | 0.4050        | 0.2115        | 3.8000e-004        |               | 0.0204        | 0.0204        |                | 0.0188        | 0.0188        | 0.0000        | 33.4357        | 33.4357        | 0.0108        | 0.0000        | 33.7060        |
| <b>Total</b>  | <b>0.0389</b> | <b>0.4050</b> | <b>0.2115</b> | <b>3.8000e-004</b> | <b>0.1807</b> | <b>0.0204</b> | <b>0.2011</b> | <b>0.0993</b>  | <b>0.0188</b> | <b>0.1181</b> | <b>0.0000</b> | <b>33.4357</b> | <b>33.4357</b> | <b>0.0108</b> | <b>0.0000</b> | <b>33.7060</b> |

## Village South Specific Plan (Proposed) - 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       | 5.8000e-004        | 4.3000e-004        | 4.8700e-003        | 1.0000e-005        | 1.3400e-003        | 1.0000e-005        | 1.3500e-003        | 3.6000e-004        | 1.0000e-005        | 3.7000e-004        | 0.0000        | 1.2225        | 1.2225        | 4.0000e-005        | 0.0000        | 1.2234        |
| <b>Total</b> | <b>5.8000e-004</b> | <b>4.3000e-004</b> | <b>4.8700e-003</b> | <b>1.0000e-005</b> | <b>1.3400e-003</b> | <b>1.0000e-005</b> | <b>1.3500e-003</b> | <b>3.6000e-004</b> | <b>1.0000e-005</b> | <b>3.7000e-004</b> | <b>0.0000</b> | <b>1.2225</b> | <b>1.2225</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.2234</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 |               |               |               |                    | 0.1741        | 0.0000        | 0.1741        | 0.0693         | 0.0000        | 0.0693        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0796        | 0.8816        | 0.5867        | 1.1800e-003        |               | 0.0377        | 0.0377        |                | 0.0347        | 0.0347        | 0.0000        | 103.5405        | 103.5405        | 0.0335        | 0.0000        | 104.3776        |
| <b>Total</b>  | <b>0.0796</b> | <b>0.8816</b> | <b>0.5867</b> | <b>1.1800e-003</b> | <b>0.1741</b> | <b>0.0377</b> | <b>0.2118</b> | <b>0.0693</b>  | <b>0.0347</b> | <b>0.1040</b> | <b>0.0000</b> | <b>103.5405</b> | <b>103.5405</b> | <b>0.0335</b> | <b>0.0000</b> | <b>104.3776</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2200e-003        | 9.0000e-004        | 0.0103        | 3.0000e-005        | 2.8300e-003        | 2.0000e-005        | 2.8600e-003        | 7.5000e-004        | 2.0000e-005        | 7.8000e-004        | 0.0000        | 2.5808        | 2.5808        | 8.0000e-005        | 0.0000        | 2.5828        |
| <b>Total</b> | <b>1.2200e-003</b> | <b>9.0000e-004</b> | <b>0.0103</b> | <b>3.0000e-005</b> | <b>2.8300e-003</b> | <b>2.0000e-005</b> | <b>2.8600e-003</b> | <b>7.5000e-004</b> | <b>2.0000e-005</b> | <b>7.8000e-004</b> | <b>0.0000</b> | <b>2.5808</b> | <b>2.5808</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>2.5828</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 |               |               |               |                    | 0.1741        | 0.0000        | 0.1741        | 0.0693         | 0.0000        | 0.0693        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Off-Road      | 0.0796        | 0.8816        | 0.5867        | 1.1800e-003        |               | 0.0377        | 0.0377        |                | 0.0347        | 0.0347        | 0.0000        | 103.5403        | 103.5403        | 0.0335        | 0.0000        | 104.3775        |
| <b>Total</b>  | <b>0.0796</b> | <b>0.8816</b> | <b>0.5867</b> | <b>1.1800e-003</b> | <b>0.1741</b> | <b>0.0377</b> | <b>0.2118</b> | <b>0.0693</b>  | <b>0.0347</b> | <b>0.1040</b> | <b>0.0000</b> | <b>103.5403</b> | <b>103.5403</b> | <b>0.0335</b> | <b>0.0000</b> | <b>104.3775</b> |



## Village South Specific Plan (Proposed) - 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      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2200e-003        | 9.0000e-004        | 0.0103        | 3.0000e-005        | 2.8300e-003        | 2.0000e-005        | 2.8600e-003        | 7.5000e-004        | 2.0000e-005        | 7.8000e-004        | 0.0000        | 2.5808        | 2.5808        | 8.0000e-005        | 0.0000        | 2.5828        |
| <b>Total</b> | <b>1.2200e-003</b> | <b>9.0000e-004</b> | <b>0.0103</b> | <b>3.0000e-005</b> | <b>2.8300e-003</b> | <b>2.0000e-005</b> | <b>2.8600e-003</b> | <b>7.5000e-004</b> | <b>2.0000e-005</b> | <b>7.8000e-004</b> | <b>0.0000</b> | <b>2.5808</b> | <b>2.5808</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>2.5828</b> |

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

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0807        | 0.0000             | 0.0807        | 0.0180         | 0.0000             | 0.0180        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0127        | 0.1360        | 0.1017        | 2.2000e-004        |               | 5.7200e-003        | 5.7200e-003   |                | 5.2600e-003        | 5.2600e-003   | 0.0000        | 19.0871        | 19.0871        | 6.1700e-003        | 0.0000        | 19.2414        |
| <b>Total</b>  | <b>0.0127</b> | <b>0.1360</b> | <b>0.1017</b> | <b>2.2000e-004</b> | <b>0.0807</b> | <b>5.7200e-003</b> | <b>0.0865</b> | <b>0.0180</b>  | <b>5.2600e-003</b> | <b>0.0233</b> | <b>0.0000</b> | <b>19.0871</b> | <b>19.0871</b> | <b>6.1700e-003</b> | <b>0.0000</b> | <b>19.2414</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.1000e-004        | 1.5000e-004        | 1.7400e-003        | 1.0000e-005        | 5.2000e-004        | 0.0000        | 5.3000e-004        | 1.4000e-004        | 0.0000        | 1.4000e-004        | 0.0000        | 0.4587        | 0.4587        | 1.0000e-005        | 0.0000        | 0.4590        |
| <b>Total</b> | <b>2.1000e-004</b> | <b>1.5000e-004</b> | <b>1.7400e-003</b> | <b>1.0000e-005</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>5.3000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4587</b> | <b>0.4587</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4590</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 |               |               |               |                    | 0.0807        | 0.0000             | 0.0807        | 0.0180         | 0.0000             | 0.0180        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0127        | 0.1360        | 0.1017        | 2.2000e-004        |               | 5.7200e-003        | 5.7200e-003   |                | 5.2600e-003        | 5.2600e-003   | 0.0000        | 19.0871        | 19.0871        | 6.1700e-003        | 0.0000        | 19.2414        |
| <b>Total</b>  | <b>0.0127</b> | <b>0.1360</b> | <b>0.1017</b> | <b>2.2000e-004</b> | <b>0.0807</b> | <b>5.7200e-003</b> | <b>0.0865</b> | <b>0.0180</b>  | <b>5.2600e-003</b> | <b>0.0233</b> | <b>0.0000</b> | <b>19.0871</b> | <b>19.0871</b> | <b>6.1700e-003</b> | <b>0.0000</b> | <b>19.2414</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.1000e-004        | 1.5000e-004        | 1.7400e-003        | 1.0000e-005        | 5.2000e-004        | 0.0000        | 5.3000e-004        | 1.4000e-004        | 0.0000        | 1.4000e-004        | 0.0000        | 0.4587        | 0.4587        | 1.0000e-005        | 0.0000        | 0.4590        |
| <b>Total</b> | <b>2.1000e-004</b> | <b>1.5000e-004</b> | <b>1.7400e-003</b> | <b>1.0000e-005</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>5.3000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4587</b> | <b>0.4587</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4590</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     | 0.2158        | 1.9754        | 2.0700        | 3.4100e-003        |               | 0.1023        | 0.1023        |                | 0.0963        | 0.0963        | 0.0000        | 293.1324        | 293.1324        | 0.0702        | 0.0000        | 294.8881        |
| <b>Total</b> | <b>0.2158</b> | <b>1.9754</b> | <b>2.0700</b> | <b>3.4100e-003</b> |               | <b>0.1023</b> | <b>0.1023</b> |                | <b>0.0963</b> | <b>0.0963</b> | <b>0.0000</b> | <b>293.1324</b> | <b>293.1324</b> | <b>0.0702</b> | <b>0.0000</b> | <b>294.8881</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0527        | 1.6961        | 0.4580        | 4.5500e-003   | 0.1140        | 3.1800e-003        | 0.1171        | 0.0329         | 3.0400e-003        | 0.0359        | 0.0000        | 441.9835          | 441.9835          | 0.0264        | 0.0000        | 442.6435          |
| Worker       | 0.3051        | 0.2164        | 2.5233        | 7.3500e-003   | 0.7557        | 6.2300e-003        | 0.7619        | 0.2007         | 5.7400e-003        | 0.2065        | 0.0000        | 663.9936          | 663.9936          | 0.0187        | 0.0000        | 664.4604          |
| <b>Total</b> | <b>0.3578</b> | <b>1.9125</b> | <b>2.9812</b> | <b>0.0119</b> | <b>0.8696</b> | <b>9.4100e-003</b> | <b>0.8790</b> | <b>0.2336</b>  | <b>8.7800e-003</b> | <b>0.2424</b> | <b>0.0000</b> | <b>1,105.9771</b> | <b>1,105.9771</b> | <b>0.0451</b> | <b>0.0000</b> | <b>1,107.1039</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     | 0.2158        | 1.9754        | 2.0700        | 3.4100e-003        |               | 0.1023        | 0.1023        |                | 0.0963        | 0.0963        | 0.0000        | 293.1321        | 293.1321        | 0.0702        | 0.0000        | 294.8877        |
| <b>Total</b> | <b>0.2158</b> | <b>1.9754</b> | <b>2.0700</b> | <b>3.4100e-003</b> |               | <b>0.1023</b> | <b>0.1023</b> |                | <b>0.0963</b> | <b>0.0963</b> | <b>0.0000</b> | <b>293.1321</b> | <b>293.1321</b> | <b>0.0702</b> | <b>0.0000</b> | <b>294.8877</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0527        | 1.6961        | 0.4580        | 4.5500e-003   | 0.1140        | 3.1800e-003        | 0.1171        | 0.0329         | 3.0400e-003        | 0.0359        | 0.0000        | 441.9835          | 441.9835          | 0.0264        | 0.0000        | 442.6435          |
| Worker       | 0.3051        | 0.2164        | 2.5233        | 7.3500e-003   | 0.7557        | 6.2300e-003        | 0.7619        | 0.2007         | 5.7400e-003        | 0.2065        | 0.0000        | 663.9936          | 663.9936          | 0.0187        | 0.0000        | 664.4604          |
| <b>Total</b> | <b>0.3578</b> | <b>1.9125</b> | <b>2.9812</b> | <b>0.0119</b> | <b>0.8696</b> | <b>9.4100e-003</b> | <b>0.8790</b> | <b>0.2336</b>  | <b>8.7800e-003</b> | <b>0.2424</b> | <b>0.0000</b> | <b>1,105.9771</b> | <b>1,105.9771</b> | <b>0.0451</b> | <b>0.0000</b> | <b>1,107.1039</b> |

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1942        | 1.7765        | 2.0061        | 3.3300e-003        |               | 0.0864        | 0.0864        |                | 0.0813        | 0.0813        | 0.0000        | 286.2789        | 286.2789        | 0.0681        | 0.0000        | 287.9814        |
| <b>Total</b> | <b>0.1942</b> | <b>1.7765</b> | <b>2.0061</b> | <b>3.3300e-003</b> |               | <b>0.0864</b> | <b>0.0864</b> |                | <b>0.0813</b> | <b>0.0813</b> | <b>0.0000</b> | <b>286.2789</b> | <b>286.2789</b> | <b>0.0681</b> | <b>0.0000</b> | <b>287.9814</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |                    |               |                |                    |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0382        | 1.2511        | 0.4011        | 4.3000e-003   | 0.1113        | 1.4600e-003        | 0.1127        | 0.0321         | 1.4000e-003        | 0.0335        | 0.0000        | 417.9930          | 417.9930          | 0.0228        | 0.0000        | 418.5624          |
| Worker       | 0.2795        | 0.1910        | 2.2635        | 6.9100e-003   | 0.7377        | 5.9100e-003        | 0.7436        | 0.1960         | 5.4500e-003        | 0.2014        | 0.0000        | 624.5363          | 624.5363          | 0.0164        | 0.0000        | 624.9466          |
| <b>Total</b> | <b>0.3177</b> | <b>1.4420</b> | <b>2.6646</b> | <b>0.0112</b> | <b>0.8490</b> | <b>7.3700e-003</b> | <b>0.8564</b> | <b>0.2281</b>  | <b>6.8500e-003</b> | <b>0.2349</b> | <b>0.0000</b> | <b>1,042.5294</b> | <b>1,042.5294</b> | <b>0.0392</b> | <b>0.0000</b> | <b>1,043.5090</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     | 0.1942        | 1.7765        | 2.0061        | 3.3300e-003        |               | 0.0864        | 0.0864        |                | 0.0813        | 0.0813        | 0.0000        | 286.2785        | 286.2785        | 0.0681        | 0.0000        | 287.9811        |
| <b>Total</b> | <b>0.1942</b> | <b>1.7765</b> | <b>2.0061</b> | <b>3.3300e-003</b> |               | <b>0.0864</b> | <b>0.0864</b> |                | <b>0.0813</b> | <b>0.0813</b> | <b>0.0000</b> | <b>286.2785</b> | <b>286.2785</b> | <b>0.0681</b> | <b>0.0000</b> | <b>287.9811</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |                    |               |                |                    |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0382        | 1.2511        | 0.4011        | 4.3000e-003   | 0.1113        | 1.4600e-003        | 0.1127        | 0.0321         | 1.4000e-003        | 0.0335        | 0.0000        | 417.9930          | 417.9930          | 0.0228        | 0.0000        | 418.5624          |
| Worker       | 0.2795        | 0.1910        | 2.2635        | 6.9100e-003   | 0.7377        | 5.9100e-003        | 0.7436        | 0.1960         | 5.4500e-003        | 0.2014        | 0.0000        | 624.5363          | 624.5363          | 0.0164        | 0.0000        | 624.9466          |
| <b>Total</b> | <b>0.3177</b> | <b>1.4420</b> | <b>2.6646</b> | <b>0.0112</b> | <b>0.8490</b> | <b>7.3700e-003</b> | <b>0.8564</b> | <b>0.2281</b>  | <b>6.8500e-003</b> | <b>0.2349</b> | <b>0.0000</b> | <b>1,042.5294</b> | <b>1,042.5294</b> | <b>0.0392</b> | <b>0.0000</b> | <b>1,043.5090</b> |

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

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 6.7100e-003        | 0.0663        | 0.0948        | 1.5000e-004        |               | 3.3200e-003        | 3.3200e-003        |                | 3.0500e-003        | 3.0500e-003        | 0.0000        | 13.0175        | 13.0175        | 4.2100e-003        | 0.0000        | 13.1227        |
| Paving       | 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>6.7100e-003</b> | <b>0.0663</b> | <b>0.0948</b> | <b>1.5000e-004</b> |               | <b>3.3200e-003</b> | <b>3.3200e-003</b> |                | <b>3.0500e-003</b> | <b>3.0500e-003</b> | <b>0.0000</b> | <b>13.0175</b> | <b>13.0175</b> | <b>4.2100e-003</b> | <b>0.0000</b> | <b>13.1227</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.8000e-004        | 1.9000e-004        | 2.2300e-003        | 1.0000e-005        | 7.3000e-004        | 1.0000e-005        | 7.3000e-004        | 1.9000e-004        | 1.0000e-005        | 2.0000e-004        | 0.0000        | 0.6156        | 0.6156        | 2.0000e-005        | 0.0000        | 0.6160        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>1.9000e-004</b> | <b>2.2300e-003</b> | <b>1.0000e-005</b> | <b>7.3000e-004</b> | <b>1.0000e-005</b> | <b>7.3000e-004</b> | <b>1.9000e-004</b> | <b>1.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>0.6156</b> | <b>0.6156</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6160</b> |

**Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 6.7100e-003        | 0.0663        | 0.0948        | 1.5000e-004        |               | 3.3200e-003        | 3.3200e-003        |                | 3.0500e-003        | 3.0500e-003        | 0.0000        | 13.0175        | 13.0175        | 4.2100e-003        | 0.0000        | 13.1227        |
| Paving       | 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>6.7100e-003</b> | <b>0.0663</b> | <b>0.0948</b> | <b>1.5000e-004</b> |               | <b>3.3200e-003</b> | <b>3.3200e-003</b> |                | <b>3.0500e-003</b> | <b>3.0500e-003</b> | <b>0.0000</b> | <b>13.0175</b> | <b>13.0175</b> | <b>4.2100e-003</b> | <b>0.0000</b> | <b>13.1227</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.8000e-004        | 1.9000e-004        | 2.2300e-003        | 1.0000e-005        | 7.3000e-004        | 1.0000e-005        | 7.3000e-004        | 1.9000e-004        | 1.0000e-005        | 2.0000e-004        | 0.0000        | 0.6156        | 0.6156        | 2.0000e-005        | 0.0000        | 0.6160        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>1.9000e-004</b> | <b>2.2300e-003</b> | <b>1.0000e-005</b> | <b>7.3000e-004</b> | <b>1.0000e-005</b> | <b>7.3000e-004</b> | <b>1.9000e-004</b> | <b>1.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>0.6156</b> | <b>0.6156</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.6160</b> |

**3.6 Paving - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0109        | 0.1048        | 0.1609        | 2.5000e-004        |               | 5.1500e-003        | 5.1500e-003        |                | 4.7400e-003        | 4.7400e-003        | 0.0000        | 22.0292        | 22.0292        | 7.1200e-003        | 0.0000        | 22.2073        |
| Paving       | 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>0.0109</b> | <b>0.1048</b> | <b>0.1609</b> | <b>2.5000e-004</b> |               | <b>5.1500e-003</b> | <b>5.1500e-003</b> |                | <b>4.7400e-003</b> | <b>4.7400e-003</b> | <b>0.0000</b> | <b>22.0292</b> | <b>22.0292</b> | <b>7.1200e-003</b> | <b>0.0000</b> | <b>22.2073</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2024****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 4.4000e-004        | 2.9000e-004        | 3.5100e-003        | 1.0000e-005        | 1.2300e-003        | 1.0000e-005        | 1.2400e-003        | 3.3000e-004        | 1.0000e-005        | 3.4000e-004        | 0.0000        | 1.0094        | 1.0094        | 3.0000e-005        | 0.0000        | 1.0100        |
| <b>Total</b> | <b>4.4000e-004</b> | <b>2.9000e-004</b> | <b>3.5100e-003</b> | <b>1.0000e-005</b> | <b>1.2300e-003</b> | <b>1.0000e-005</b> | <b>1.2400e-003</b> | <b>3.3000e-004</b> | <b>1.0000e-005</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>1.0094</b> | <b>1.0094</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>1.0100</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     | 0.0109        | 0.1048        | 0.1609        | 2.5000e-004        |               | 5.1500e-003        | 5.1500e-003        |                | 4.7400e-003        | 4.7400e-003        | 0.0000        | 22.0292        | 22.0292        | 7.1200e-003        | 0.0000        | 22.2073        |
| Paving       | 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>0.0109</b> | <b>0.1048</b> | <b>0.1609</b> | <b>2.5000e-004</b> |               | <b>5.1500e-003</b> | <b>5.1500e-003</b> |                | <b>4.7400e-003</b> | <b>4.7400e-003</b> | <b>0.0000</b> | <b>22.0292</b> | <b>22.0292</b> | <b>7.1200e-003</b> | <b>0.0000</b> | <b>22.2073</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2024****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 4.4000e-004        | 2.9000e-004        | 3.5100e-003        | 1.0000e-005        | 1.2300e-003        | 1.0000e-005        | 1.2400e-003        | 3.3000e-004        | 1.0000e-005        | 3.4000e-004        | 0.0000        | 1.0094        | 1.0094        | 3.0000e-005        | 0.0000        | 1.0100        |
| <b>Total</b> | <b>4.4000e-004</b> | <b>2.9000e-004</b> | <b>3.5100e-003</b> | <b>1.0000e-005</b> | <b>1.2300e-003</b> | <b>1.0000e-005</b> | <b>1.2400e-003</b> | <b>3.3000e-004</b> | <b>1.0000e-005</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>1.0094</b> | <b>1.0094</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>1.0100</b> |

**3.7 Architectural Coating - 2024****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 4.1372        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 3.1600e-003   | 0.0213        | 0.0317        | 5.0000e-005        |               | 1.0700e-003        | 1.0700e-003        |                | 1.0700e-003        | 1.0700e-003        | 0.0000        | 4.4682        | 4.4682        | 2.5000e-004        | 0.0000        | 4.4745        |
| <b>Total</b>    | <b>4.1404</b> | <b>0.0213</b> | <b>0.0317</b> | <b>5.0000e-005</b> |               | <b>1.0700e-003</b> | <b>1.0700e-003</b> |                | <b>1.0700e-003</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>4.4682</b> | <b>4.4682</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>4.4745</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2024****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 7.4800e-003        | 4.9300e-003        | 0.0596        | 1.9000e-004        | 0.0209        | 1.6000e-004        | 0.0211        | 5.5500e-003        | 1.5000e-004        | 5.7000e-003        | 0.0000        | 17.1287        | 17.1287        | 4.3000e-004        | 0.0000        | 17.1394        |
| <b>Total</b> | <b>7.4800e-003</b> | <b>4.9300e-003</b> | <b>0.0596</b> | <b>1.9000e-004</b> | <b>0.0209</b> | <b>1.6000e-004</b> | <b>0.0211</b> | <b>5.5500e-003</b> | <b>1.5000e-004</b> | <b>5.7000e-003</b> | <b>0.0000</b> | <b>17.1287</b> | <b>17.1287</b> | <b>4.3000e-004</b> | <b>0.0000</b> | <b>17.1394</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 | 4.1372        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 3.1600e-003   | 0.0213        | 0.0317        | 5.0000e-005        |               | 1.0700e-003        | 1.0700e-003        |                | 1.0700e-003        | 1.0700e-003        | 0.0000        | 4.4682        | 4.4682        | 2.5000e-004        | 0.0000        | 4.4745        |
| <b>Total</b>    | <b>4.1404</b> | <b>0.0213</b> | <b>0.0317</b> | <b>5.0000e-005</b> |               | <b>1.0700e-003</b> | <b>1.0700e-003</b> |                | <b>1.0700e-003</b> | <b>1.0700e-003</b> | <b>0.0000</b> | <b>4.4682</b> | <b>4.4682</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>4.4745</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2024****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |                    |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 7.4800e-003        | 4.9300e-003        | 0.0596        | 1.9000e-004        | 0.0209        | 1.6000e-004        | 0.0211        | 5.5500e-003        | 1.5000e-004        | 5.7000e-003        | 0.0000        | 17.1287        | 17.1287        | 4.3000e-004        | 0.0000        | 17.1394        |
| <b>Total</b> | <b>7.4800e-003</b> | <b>4.9300e-003</b> | <b>0.0596</b> | <b>1.9000e-004</b> | <b>0.0209</b> | <b>1.6000e-004</b> | <b>0.0211</b> | <b>5.5500e-003</b> | <b>1.5000e-004</b> | <b>5.7000e-003</b> | <b>0.0000</b> | <b>17.1287</b> | <b>17.1287</b> | <b>4.3000e-004</b> | <b>0.0000</b> | <b>17.1394</b> |

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

## Village South Specific Plan (Proposed) - 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   | 1.5857  | 7.9962 | 19.1834 | 0.0821 | 7.7979        | 0.0580       | 7.8559     | 2.0895         | 0.0539        | 2.1434      | 0.0000   | 7,620.4986 | 7,620.4986 | 0.3407 | 0.0000 | 7,629.0162 |
| Unmitigated | 1.5857  | 7.9962 | 19.1834 | 0.0821 | 7.7979        | 0.0580       | 7.8559     | 2.0895         | 0.0539        | 2.1434      | 0.0000   | 7,620.4986 | 7,620.4986 | 0.3407 | 0.0000 | 7,629.0162 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise                 | 145.75                  | 154.25   | 154.00   | 506,227     | 506,227    |
| Apartments Mid Rise                 | 4,026.75                | 3,773.25 | 4075.50  | 13,660,065  | 13,660,065 |
| General Office Building             | 288.45                  | 62.55    | 31.05    | 706,812     | 706,812    |
| High Turnover (Sit Down Restaurant) | 2,368.80                | 2,873.52 | 2817.72  | 3,413,937   | 3,413,937  |
| Hotel                               | 192.00                  | 187.50   | 160.00   | 445,703     | 445,703    |
| Quality Restaurant                  | 501.12                  | 511.92   | 461.20   | 707,488     | 707,488    |
| Regional Shopping Center            | 528.08                  | 601.44   | 357.84   | 1,112,221   | 1,112,221  |
| Total                               | 8,050.95                | 8,164.43 | 8,057.31 | 20,552,452  | 20,552,452 |

## 4.3 Trip Type Information

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

| Land Use                 | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                          | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| Apartments Mid Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| General Office Building  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |
| High Turnover (Sit Down  | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Hotel                    | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Quality Restaurant       | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Regional Shopping Center | 16.60      | 8.40       | 6.90        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Apartments Mid Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| General Office Building             | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| High Turnover (Sit Down Restaurant) | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Hotel                               | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Quality Restaurant                  | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Regional Shopping Center            | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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## Village South Specific Plan (Proposed) - 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    |            |            |        |        |            |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2,512.6465 | 2,512.6465 | 0.1037 | 0.0215 | 2,521.6356 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2,512.6465 | 2,512.6465 | 0.1037 | 0.0215 | 2,521.6356 |
| NaturalGas Mitigated    | 0.1398  | 1.2312 | 0.7770 | 7.6200e-003 |               | 0.0966       | 0.0966     |                | 0.0966        | 0.0966      | 0.0000   | 1,383.4267 | 1,383.4267 | 0.0265 | 0.0254 | 1,391.6478 |
| NaturalGas Unmitigated  | 0.1398  | 1.2312 | 0.7770 | 7.6200e-003 |               | 0.0966       | 0.0966     |                | 0.0966        | 0.0966      | 0.0000   | 1,383.4267 | 1,383.4267 | 0.0265 | 0.0254 | 1,391.6478 |



## Village South Specific Plan (Proposed) - 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         |                   |                   |               |               |                   |
| Apartments Low Rise                 | 408494         | 2.2000e-003   | 0.0188        | 8.0100e-003   | 1.2000e-004        |               | 1.5200e-003   | 1.5200e-003   |                | 1.5200e-003   | 1.5200e-003   | 0.0000        | 21.7988           | 21.7988           | 4.2000e-004   | 4.0000e-004   | 21.9284           |
| Apartments Mid Rise                 | 1.30613e+007   | 0.0704        | 0.6018        | 0.2561        | 3.8400e-003        |               | 0.0487        | 0.0487        |                | 0.0487        | 0.0487        | 0.0000        | 696.9989          | 696.9989          | 0.0134        | 0.0128        | 701.1408          |
| General Office Building             | 468450         | 2.5300e-003   | 0.0230        | 0.0193        | 1.4000e-004        |               | 1.7500e-003   | 1.7500e-003   |                | 1.7500e-003   | 1.7500e-003   | 0.0000        | 24.9983           | 24.9983           | 4.8000e-004   | 4.6000e-004   | 25.1468           |
| High Turnover (Sit Down Restaurant) | 8.30736e+006   | 0.0448        | 0.4072        | 0.3421        | 2.4400e-003        |               | 0.0310        | 0.0310        |                | 0.0310        | 0.0310        | 0.0000        | 443.3124          | 443.3124          | 8.5000e-003   | 8.1300e-003   | 445.9468          |
| Hotel                               | 1.74095e+006   | 9.3900e-003   | 0.0853        | 0.0717        | 5.1000e-004        |               | 6.4900e-003   | 6.4900e-003   |                | 6.4900e-003   | 6.4900e-003   | 0.0000        | 92.9036           | 92.9036           | 1.7800e-003   | 1.7000e-003   | 93.4557           |
| Quality Restaurant                  | 1.84608e+006   | 9.9500e-003   | 0.0905        | 0.0760        | 5.4000e-004        |               | 6.8800e-003   | 6.8800e-003   |                | 6.8800e-003   | 6.8800e-003   | 0.0000        | 98.5139           | 98.5139           | 1.8900e-003   | 1.8100e-003   | 99.0993           |
| Regional Shopping Center            | 91840          | 5.0000e-004   | 4.5000e-003   | 3.7800e-003   | 3.0000e-005        |               | 3.4000e-004   | 3.4000e-004   |                | 3.4000e-004   | 3.4000e-004   | 0.0000        | 4.9009            | 4.9009            | 9.0000e-005   | 9.0000e-005   | 4.9301            |
| <b>Total</b>                        |                | <b>0.1398</b> | <b>1.2312</b> | <b>0.7770</b> | <b>7.6200e-003</b> |               | <b>0.0966</b> | <b>0.0966</b> |                | <b>0.0966</b> | <b>0.0966</b> | <b>0.0000</b> | <b>1,383.4268</b> | <b>1,383.4268</b> | <b>0.0265</b> | <b>0.0254</b> | <b>1,391.6478</b> |

## Village South Specific Plan (Proposed) - 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         |                   |                   |               |               |                   |
| Apartments Low Rise                 | 408494         | 2.2000e-003   | 0.0188        | 8.0100e-003   | 1.2000e-004        |               | 1.5200e-003   | 1.5200e-003   |                | 1.5200e-003   | 1.5200e-003   | 0.0000        | 21.7988           | 21.7988           | 4.2000e-004   | 4.0000e-004   | 21.9284           |
| Apartments Mid Rise                 | 1.30613e+007   | 0.0704        | 0.6018        | 0.2561        | 3.8400e-003        |               | 0.0487        | 0.0487        |                | 0.0487        | 0.0487        | 0.0000        | 696.9989          | 696.9989          | 0.0134        | 0.0128        | 701.1408          |
| General Office Building             | 468450         | 2.5300e-003   | 0.0230        | 0.0193        | 1.4000e-004        |               | 1.7500e-003   | 1.7500e-003   |                | 1.7500e-003   | 1.7500e-003   | 0.0000        | 24.9983           | 24.9983           | 4.8000e-004   | 4.6000e-004   | 25.1468           |
| High Turnover (Sit Down Restaurant) | 8.30736e+006   | 0.0448        | 0.4072        | 0.3421        | 2.4400e-003        |               | 0.0310        | 0.0310        |                | 0.0310        | 0.0310        | 0.0000        | 443.3124          | 443.3124          | 8.5000e-003   | 8.1300e-003   | 445.9468          |
| Hotel                               | 1.74095e+006   | 9.3900e-003   | 0.0853        | 0.0717        | 5.1000e-004        |               | 6.4900e-003   | 6.4900e-003   |                | 6.4900e-003   | 6.4900e-003   | 0.0000        | 92.9036           | 92.9036           | 1.7800e-003   | 1.7000e-003   | 93.4557           |
| Quality Restaurant                  | 1.84608e+006   | 9.9500e-003   | 0.0905        | 0.0760        | 5.4000e-004        |               | 6.8800e-003   | 6.8800e-003   |                | 6.8800e-003   | 6.8800e-003   | 0.0000        | 98.5139           | 98.5139           | 1.8900e-003   | 1.8100e-003   | 99.0993           |
| Regional Shopping Center            | 91840          | 5.0000e-004   | 4.5000e-003   | 3.7800e-003   | 3.0000e-005        |               | 3.4000e-004   | 3.4000e-004   |                | 3.4000e-004   | 3.4000e-004   | 0.0000        | 4.9009            | 4.9009            | 9.0000e-005   | 9.0000e-005   | 4.9301            |
| <b>Total</b>                        |                | <b>0.1398</b> | <b>1.2312</b> | <b>0.7770</b> | <b>7.6200e-003</b> |               | <b>0.0966</b> | <b>0.0966</b> |                | <b>0.0966</b> | <b>0.0966</b> | <b>0.0000</b> | <b>1,383.4268</b> | <b>1,383.4268</b> | <b>0.0265</b> | <b>0.0254</b> | <b>1,391.6478</b> |

## Village South Specific Plan (Proposed) - 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             |               |               |                   |
| Apartments Low Rise                 | 106010          | 33.7770           | 1.3900e-003   | 2.9000e-004   | 33.8978           |
| Apartments Mid Rise                 | 3.94697e+006    | 1,257.5879        | 0.0519        | 0.0107        | 1,262.0869        |
| General Office Building             | 584550          | 186.2502          | 7.6900e-003   | 1.5900e-003   | 186.9165          |
| High Turnover (Sit Down Restaurant) | 1.58904e+006    | 506.3022          | 0.0209        | 4.3200e-003   | 508.1135          |
| Hotel                               | 550308          | 175.3399          | 7.2400e-003   | 1.5000e-003   | 175.9672          |
| Quality Restaurant                  | 353120          | 112.5116          | 4.6500e-003   | 9.6000e-004   | 112.9141          |
| Regional Shopping Center            | 756000          | 240.8778          | 9.9400e-003   | 2.0600e-003   | 241.7395          |
| <b>Total</b>                        |                 | <b>2,512.6465</b> | <b>0.1037</b> | <b>0.0215</b> | <b>2,521.6356</b> |

## Village South Specific Plan (Proposed) - 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             |               |               |                   |
| Apartments Low Rise                 | 106010          | 33.7770           | 1.3900e-003   | 2.9000e-004   | 33.8978           |
| Apartments Mid Rise                 | 3.94697e+006    | 1,257.5879        | 0.0519        | 0.0107        | 1,262.0869        |
| General Office Building             | 584550          | 186.2502          | 7.6900e-003   | 1.5900e-003   | 186.9165          |
| High Turnover (Sit Down Restaurant) | 1.58904e+006    | 506.3022          | 0.0209        | 4.3200e-003   | 508.1135          |
| Hotel                               | 550308          | 175.3399          | 7.2400e-003   | 1.5000e-003   | 175.9672          |
| Quality Restaurant                  | 353120          | 112.5116          | 4.6500e-003   | 9.6000e-004   | 112.9141          |
| Regional Shopping Center            | 756000          | 240.8778          | 9.9400e-003   | 2.0600e-003   | 241.7395          |
| <b>Total</b>                        |                 | <b>2,512.6465</b> | <b>0.1037</b> | <b>0.0215</b> | <b>2,521.6356</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Village South Specific Plan (Proposed) - 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   | 5.1437  | 0.2950 | 10.3804 | 1.6700e-003 |               | 0.0714       | 0.0714     |                | 0.0714        | 0.0714      | 0.0000   | 220.9670  | 220.9670  | 0.0201 | 3.7400e-003 | 222.5835 |
| Unmitigated | 5.1437  | 0.2950 | 10.3804 | 1.6700e-003 |               | 0.0714       | 0.0714     |                | 0.0714        | 0.0714      | 0.0000   | 220.9670  | 220.9670  | 0.0201 | 3.7400e-003 | 222.5835 |

## 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 | 0.4137        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Consumer Products     | 4.3998        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Hearth                | 0.0206        | 0.1763        | 0.0750         | 1.1200e-003        |               | 0.0143        | 0.0143        |                | 0.0143        | 0.0143        | 0.0000        | 204.1166        | 204.1166        | 3.9100e-003   | 3.7400e-003        | 205.3295        |
| Landscaping           | 0.3096        | 0.1187        | 10.3054        | 5.4000e-004        |               | 0.0572        | 0.0572        |                | 0.0572        | 0.0572        | 0.0000        | 16.8504         | 16.8504         | 0.0161        | 0.0000             | 17.2540         |
| <b>Total</b>          | <b>5.1437</b> | <b>0.2950</b> | <b>10.3804</b> | <b>1.6600e-003</b> |               | <b>0.0714</b> | <b>0.0714</b> |                | <b>0.0714</b> | <b>0.0714</b> | <b>0.0000</b> | <b>220.9670</b> | <b>220.9670</b> | <b>0.0201</b> | <b>3.7400e-003</b> | <b>222.5835</b> |

## Village South Specific Plan (Proposed) - 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 | 0.4137        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Consumer Products     | 4.3998        |               |                |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| Hearth                | 0.0206        | 0.1763        | 0.0750         | 1.1200e-003        |               | 0.0143        | 0.0143        |                | 0.0143        | 0.0143        | 0.0000        | 204.1166        | 204.1166        | 3.9100e-003   | 3.7400e-003        | 205.3295        |
| Landscaping           | 0.3096        | 0.1187        | 10.3054        | 5.4000e-004        |               | 0.0572        | 0.0572        |                | 0.0572        | 0.0572        | 0.0000        | 16.8504         | 16.8504         | 0.0161        | 0.0000             | 17.2540         |
| <b>Total</b>          | <b>5.1437</b> | <b>0.2950</b> | <b>10.3804</b> | <b>1.6600e-003</b> |               | <b>0.0714</b> | <b>0.0714</b> |                | <b>0.0714</b> | <b>0.0714</b> | <b>0.0000</b> | <b>220.9670</b> | <b>220.9670</b> | <b>0.0201</b> | <b>3.7400e-003</b> | <b>222.5835</b> |

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 585.8052  | 3.0183 | 0.0755 | 683.7567 |
| Unmitigated | 585.8052  | 3.0183 | 0.0755 | 683.7567 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use****Unmitigated**

|                                     | Indoor/Outdoor Use | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | Mgal               | MT/yr           |               |               |                 |
| Apartments Low Rise                 | 1.62885 / 1.02688  | 10.9095         | 0.0535        | 1.3400e-003   | 12.6471         |
| Apartments Mid Rise                 | 63.5252 / 40.0485  | 425.4719        | 2.0867        | 0.0523        | 493.2363        |
| General Office Building             | 7.99802 / 4.90201  | 53.0719         | 0.2627        | 6.5900e-003   | 61.6019         |
| High Turnover (Sit Down Restaurant) | 10.9272 / 0.697482 | 51.2702         | 0.3580        | 8.8200e-003   | 62.8482         |
| Hotel                               | 1.26834 / 0.140927 | 6.1633          | 0.0416        | 1.0300e-003   | 7.5079          |
| Quality Restaurant                  | 2.42827 / 0.154996 | 11.3934         | 0.0796        | 1.9600e-003   | 13.9663         |
| Regional Shopping Center            | 4.14806 / 2.54236  | 27.5250         | 0.1363        | 3.4200e-003   | 31.9490         |
| <b>Total</b>                        |                    | <b>585.8052</b> | <b>3.0183</b> | <b>0.0755</b> | <b>683.7567</b> |



## Village South Specific Plan (Proposed) - 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           |               |               |                 |
| Apartments Low Rise                 | 1.62885 / 1.02688  | 10.9095         | 0.0535        | 1.3400e-003   | 12.6471         |
| Apartments Mid Rise                 | 63.5252 / 40.0485  | 425.4719        | 2.0867        | 0.0523        | 493.2363        |
| General Office Building             | 7.99802 / 4.90201  | 53.0719         | 0.2627        | 6.5900e-003   | 61.6019         |
| High Turnover (Sit Down Restaurant) | 10.9272 / 0.697482 | 51.2702         | 0.3580        | 8.8200e-003   | 62.8482         |
| Hotel                               | 1.26834 / 0.140927 | 6.1633          | 0.0416        | 1.0300e-003   | 7.5079          |
| Quality Restaurant                  | 2.42827 / 0.154996 | 11.3934         | 0.0796        | 1.9600e-003   | 13.9663         |
| Regional Shopping Center            | 4.14806 / 2.54236  | 27.5250         | 0.1363        | 3.4200e-003   | 31.9490         |
| <b>Total</b>                        |                    | <b>585.8052</b> | <b>3.0183</b> | <b>0.0755</b> | <b>683.7567</b> |

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**Category/Year**

|             | Total CO2 | CH4     | N2O    | CO2e     |
|-------------|-----------|---------|--------|----------|
|             | MT/yr     |         |        |          |
| Mitigated   | 207.8079  | 12.2811 | 0.0000 | 514.8354 |
| Unmitigated | 207.8079  | 12.2811 | 0.0000 | 514.8354 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

|                                     | Waste<br>Disposed | Total CO2       | CH4            | N2O           | CO2e            |
|-------------------------------------|-------------------|-----------------|----------------|---------------|-----------------|
| Land Use                            | tons              | MT/yr           |                |               |                 |
| Apartments Low Rise                 | 11.5              | 2.3344          | 0.1380         | 0.0000        | 5.7834          |
| Apartments Mid Rise                 | 448.5             | 91.0415         | 5.3804         | 0.0000        | 225.5513        |
| General Office Building             | 41.85             | 8.4952          | 0.5021         | 0.0000        | 21.0464         |
| High Turnover (Sit Down Restaurant) | 428.4             | 86.9613         | 5.1393         | 0.0000        | 215.4430        |
| Hotel                               | 27.38             | 5.5579          | 0.3285         | 0.0000        | 13.7694         |
| Quality Restaurant                  | 7.3               | 1.4818          | 0.0876         | 0.0000        | 3.6712          |
| Regional Shopping Center            | 58.8              | 11.9359         | 0.7054         | 0.0000        | 29.5706         |
| <b>Total</b>                        |                   | <b>207.8079</b> | <b>12.2811</b> | <b>0.0000</b> | <b>514.8354</b> |

## Village South Specific Plan (Proposed) - 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           |                |               |                 |
| Apartments Low Rise                 | 11.5           | 2.3344          | 0.1380         | 0.0000        | 5.7834          |
| Apartments Mid Rise                 | 448.5          | 91.0415         | 5.3804         | 0.0000        | 225.5513        |
| General Office Building             | 41.85          | 8.4952          | 0.5021         | 0.0000        | 21.0464         |
| High Turnover (Sit Down Restaurant) | 428.4          | 86.9613         | 5.1393         | 0.0000        | 215.4430        |
| Hotel                               | 27.38          | 5.5579          | 0.3285         | 0.0000        | 13.7694         |
| Quality Restaurant                  | 7.3            | 1.4818          | 0.0876         | 0.0000        | 3.6712          |
| Regional Shopping Center            | 58.8           | 11.9359         | 0.7054         | 0.0000        | 29.5706         |
| <b>Total</b>                        |                | <b>207.8079</b> | <b>12.2811</b> | <b>0.0000</b> | <b>514.8354</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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**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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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

## Village South Specific Plan (Proposed)

### Los Angeles-South Coast County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 45.00  | 1000sqft      | 1.03        | 45,000.00          | 0          |
| High Turnover (Sit Down Restaurant) | 36.00  | 1000sqft      | 0.83        | 36,000.00          | 0          |
| Hotel                               | 50.00  | Room          | 1.67        | 72,600.00          | 0          |
| Quality Restaurant                  | 8.00   | 1000sqft      | 0.18        | 8,000.00           | 0          |
| Apartments Low Rise                 | 25.00  | Dwelling Unit | 1.56        | 25,000.00          | 72         |
| Apartments Mid Rise                 | 975.00 | Dwelling Unit | 25.66       | 975,000.00         | 2789       |
| Regional Shopping Center            | 56.00  | 1000sqft      | 1.29        | 56,000.00          | 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>          | 2028  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

| Table Name      | Column Name       | Default Value | New Value |
|-----------------|-------------------|---------------|-----------|
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | NumberWood        | 1.25          | 0.00      |
| tblFireplaces   | NumberWood        | 48.75         | 0.00      |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblVehicleTrips | ST_TR             | 7.16          | 6.17      |
| tblVehicleTrips | ST_TR             | 6.39          | 3.87      |
| tblVehicleTrips | ST_TR             | 2.46          | 1.39      |
| tblVehicleTrips | ST_TR             | 158.37        | 79.82     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| tblVehicleTrips | ST_TR              | 8.19   | 3.75  |
| tblVehicleTrips | ST_TR              | 94.36  | 63.99 |
| tblVehicleTrips | ST_TR              | 49.97  | 10.74 |
| tblVehicleTrips | SU_TR              | 6.07   | 6.16  |
| tblVehicleTrips | SU_TR              | 5.86   | 4.18  |
| tblVehicleTrips | SU_TR              | 1.05   | 0.69  |
| tblVehicleTrips | SU_TR              | 131.84 | 78.27 |
| tblVehicleTrips | SU_TR              | 5.95   | 3.20  |
| tblVehicleTrips | SU_TR              | 72.16  | 57.65 |
| tblVehicleTrips | SU_TR              | 25.24  | 6.39  |
| tblVehicleTrips | WD_TR              | 6.59   | 5.83  |
| tblVehicleTrips | WD_TR              | 6.65   | 4.13  |
| tblVehicleTrips | WD_TR              | 11.03  | 6.41  |
| tblVehicleTrips | WD_TR              | 127.15 | 65.80 |
| tblVehicleTrips | WD_TR              | 8.17   | 3.84  |
| tblVehicleTrips | WD_TR              | 89.95  | 62.64 |
| tblVehicleTrips | WD_TR              | 42.70  | 9.43  |
| tblWoodstoves   | NumberCatalytic    | 1.25   | 0.00  |
| tblWoodstoves   | NumberCatalytic    | 48.75  | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 1.25   | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 48.75  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |

## 2.0 Emissions Summary



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**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    | 4.2561   | 46.4415 | 31.4494 | 0.0636 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 6,163.416<br>6  | 6,163.416<br>6  | 1.9475 | 0.0000 | 6,212.103<br>9  |
| 2022    | 4.5441   | 38.8811 | 40.8776 | 0.1240 | 8.8255        | 1.6361       | 10.4616    | 3.6369         | 1.5052        | 5.1421      | 0.0000   | 12,493.44<br>03 | 12,493.44<br>03 | 1.9485 | 0.0000 | 12,518.57<br>07 |
| 2023    | 4.1534   | 25.7658 | 38.7457 | 0.1206 | 7.0088        | 0.7592       | 7.7679     | 1.8799         | 0.7136        | 2.5935      | 0.0000   | 12,150.48<br>90 | 12,150.48<br>90 | 0.9589 | 0.0000 | 12,174.46<br>15 |
| 2024    | 237.0219 | 9.5478  | 14.9642 | 0.0239 | 1.2171        | 0.4694       | 1.2875     | 0.3229         | 0.4319        | 0.4621      | 0.0000   | 2,313.180<br>8  | 2,313.180<br>8  | 0.7166 | 0.0000 | 2,331.095<br>6  |
| Maximum | 237.0219 | 46.4415 | 40.8776 | 0.1240 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 12,493.44<br>03 | 12,493.44<br>03 | 1.9485 | 0.0000 | 12,518.57<br>07 |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### 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    | 4.2561   | 46.4415 | 31.4494 | 0.0636 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 6,163.4166  | 6,163.4166  | 1.9475 | 0.0000 | 6,212.1039  |
| 2022    | 4.5441   | 38.8811 | 40.8776 | 0.1240 | 8.8255        | 1.6361       | 10.4616    | 3.6369         | 1.5052        | 5.1421      | 0.0000   | 12,493.4403 | 12,493.4403 | 1.9485 | 0.0000 | 12,518.5707 |
| 2023    | 4.1534   | 25.7658 | 38.7457 | 0.1206 | 7.0088        | 0.7592       | 7.7679     | 1.8799         | 0.7136        | 2.5935      | 0.0000   | 12,150.4890 | 12,150.4890 | 0.9589 | 0.0000 | 12,174.4615 |
| 2024    | 237.0219 | 9.5478  | 14.9642 | 0.0239 | 1.2171        | 0.4694       | 1.2875     | 0.3229         | 0.4319        | 0.4621      | 0.0000   | 2,313.1808  | 2,313.1808  | 0.7166 | 0.0000 | 2,331.0955  |
| Maximum | 237.0219 | 46.4415 | 40.8776 | 0.1240 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 12,493.4403 | 12,493.4403 | 1.9485 | 0.0000 | 12,518.5707 |

[illegible]

## Village South Specific Plan (Proposed) - 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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.8489         | 45.4304        | 114.8495        | 0.4917        | 45.9592        | 0.3360        | 46.2951        | 12.2950        | 0.3119        | 12.6070        |               | 50,306.60<br>34         | 50,306.60<br>34         | 2.1807        |               | 50,361.12<br>08         |
| <b>Total</b> | <b>41.1168</b> | <b>67.2262</b> | <b>207.5497</b> | <b>0.6278</b> | <b>45.9592</b> | <b>2.4626</b> | <b>48.4217</b> | <b>12.2950</b> | <b>2.4385</b> | <b>14.7336</b> | <b>0.0000</b> | <b>76,811.18<br/>16</b> | <b>76,811.18<br/>16</b> | <b>2.8282</b> | <b>0.4832</b> | <b>77,025.87<br/>86</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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.8489         | 45.4304        | 114.8495        | 0.4917        | 45.9592        | 0.3360        | 46.2951        | 12.2950        | 0.3119        | 12.6070        |               | 50,306.60<br>34         | 50,306.60<br>34         | 2.1807        |               | 50,361.12<br>08         |
| <b>Total</b> | <b>41.1168</b> | <b>67.2262</b> | <b>207.5497</b> | <b>0.6278</b> | <b>45.9592</b> | <b>2.4626</b> | <b>48.4217</b> | <b>12.2950</b> | <b>2.4385</b> | <b>14.7336</b> | <b>0.0000</b> | <b>76,811.18<br/>16</b> | <b>76,811.18<br/>16</b> | <b>2.8282</b> | <b>0.4832</b> | <b>77,025.87<br/>86</b> |

## Village South Specific Plan (Proposed) - 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

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 9/1/2021   | 10/12/2021 | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 10/13/2021 | 11/9/2021  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 11/10/2021 | 1/11/2022  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 1/12/2022  | 12/12/2023 | 5             | 500      |                   |
| 5            | Paving                | Paving                | 12/13/2023 | 1/30/2024  | 5             | 35       |                   |
| 6            | Architectural Coating | Architectural Coating | 1/31/2024  | 3/19/2024  | 5             | 35       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Village South Specific Plan (Proposed) - 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      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT

## Village South Specific Plan (Proposed) - 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               | 458.00              | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 801.00             | 143.00             | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 160.00             | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## 3.1 Mitigation Measures Construction

## 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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |          |                   | 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>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1273        | 4.0952        | 0.9602        | 0.0119        | 0.2669        | 0.0126        | 0.2795        | 0.0732         | 0.0120        | 0.0852        |          | 1,292.241<br>3         | 1,292.241<br>3         | 0.0877        |     | 1,294.433<br>7         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.0487        | 0.0313        | 0.4282        | 1.1800e-003   | 0.1141        | 9.5000e-004   | 0.1151        | 0.0303         | 8.8000e-004   | 0.0311        |          | 117.2799               | 117.2799               | 3.5200e-003   |     | 117.3678               |
| <b>Total</b> | <b>0.1760</b> | <b>4.1265</b> | <b>1.3884</b> | <b>0.0131</b> | <b>0.3810</b> | <b>0.0135</b> | <b>0.3946</b> | <b>0.1034</b>  | <b>0.0129</b> | <b>0.1163</b> |          | <b>1,409.521<br/>2</b> | <b>1,409.521<br/>2</b> | <b>0.0912</b> |     | <b>1,411.801<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        |                        |                        |               |     |                        |
| Fugitive Dust |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        | 0.0000        | 3,747.944<br>9         | 3,747.944<br>9         | 1.0549        |     | 3,774.317<br>4         |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> | <b>0.0000</b> | <b>3,747.944<br/>9</b> | <b>3,747.944<br/>9</b> | <b>1.0549</b> |     | <b>3,774.317<br/>4</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1273        | 4.0952        | 0.9602        | 0.0119        | 0.2669        | 0.0126        | 0.2795        | 0.0732         | 0.0120        | 0.0852        |          | 1,292.241<br>3         | 1,292.241<br>3         | 0.0877        |     | 1,294.433<br>7         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.0487        | 0.0313        | 0.4282        | 1.1800e-003   | 0.1141        | 9.5000e-004   | 0.1151        | 0.0303         | 8.8000e-004   | 0.0311        |          | 117.2799               | 117.2799               | 3.5200e-003   |     | 117.3678               |
| <b>Total</b> | <b>0.1760</b> | <b>4.1265</b> | <b>1.3884</b> | <b>0.0131</b> | <b>0.3810</b> | <b>0.0135</b> | <b>0.3946</b> | <b>0.1034</b>  | <b>0.0129</b> | <b>0.1163</b> |          | <b>1,409.521<br/>2</b> | <b>1,409.521<br/>2</b> | <b>0.0912</b> |     | <b>1,411.801<br/>5</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      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         |          | 3,685.656<br>9         | 3,685.656<br>9         | 1.1920        |     | 3,715.457<br>3         |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> |          | <b>3,685.656<br/>9</b> | <b>3,685.656<br/>9</b> | <b>1.1920</b> |     | <b>3,715.457<br/>3</b> |



## Village South Specific Plan (Proposed) - 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       | 0.0584        | 0.0375        | 0.5139        | 1.4100e-003        | 0.1369        | 1.1400e-003        | 0.1381        | 0.0363         | 1.0500e-003        | 0.0374        |          | 140.7359        | 140.7359        | 4.2200e-003        |     | 140.8414        |
| <b>Total</b> | <b>0.0584</b> | <b>0.0375</b> | <b>0.5139</b> | <b>1.4100e-003</b> | <b>0.1369</b> | <b>1.1400e-003</b> | <b>0.1381</b> | <b>0.0363</b>  | <b>1.0500e-003</b> | <b>0.0374</b> |          | <b>140.7359</b> | <b>140.7359</b> | <b>4.2200e-003</b> |     | <b>140.8414</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 |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         | 0.0000        | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715.4573        |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> | <b>0.0000</b> | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715.4573</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0584        | 0.0375        | 0.5139        | 1.4100e-003        | 0.1369        | 1.1400e-003        | 0.1381        | 0.0363         | 1.0500e-003        | 0.0374        |          | 140.7359        | 140.7359        | 4.2200e-003        |     | 140.8414        |
| <b>Total</b> | <b>0.0584</b> | <b>0.0375</b> | <b>0.5139</b> | <b>1.4100e-003</b> | <b>0.1369</b> | <b>1.1400e-003</b> | <b>0.1381</b> | <b>0.0363</b>  | <b>1.0500e-003</b> | <b>0.0374</b> |          | <b>140.7359</b> | <b>140.7359</b> | <b>4.2200e-003</b> |     | <b>140.8414</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        |          | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> |          | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0649        | 0.0417        | 0.5710        | 1.5700e-003        | 0.1521        | 1.2700e-003        | 0.1534        | 0.0404         | 1.1700e-003        | 0.0415        |          | 156.3732        | 156.3732        | 4.6900e-003        |     | 156.4904        |
| <b>Total</b> | <b>0.0649</b> | <b>0.0417</b> | <b>0.5710</b> | <b>1.5700e-003</b> | <b>0.1521</b> | <b>1.2700e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1700e-003</b> | <b>0.0415</b> |          | <b>156.3732</b> | <b>156.3732</b> | <b>4.6900e-003</b> |     | <b>156.4904</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        | 0.0000        | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> | <b>0.0000</b> | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0649        | 0.0417        | 0.5710        | 1.5700e-003        | 0.1521        | 1.2700e-003        | 0.1534        | 0.0404         | 1.1700e-003        | 0.0415        |          | 156.3732        | 156.3732        | 4.6900e-003        |     | 156.4904        |
| <b>Total</b> | <b>0.0649</b> | <b>0.0417</b> | <b>0.5710</b> | <b>1.5700e-003</b> | <b>0.1521</b> | <b>1.2700e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1700e-003</b> | <b>0.0415</b> |          | <b>156.3732</b> | <b>156.3732</b> | <b>4.6900e-003</b> |     | <b>156.4904</b> |

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

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        |          | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> |          | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0607        | 0.0376        | 0.5263        | 1.5100e-003        | 0.1521        | 1.2300e-003        | 0.1534        | 0.0404         | 1.1300e-003        | 0.0415        |          | 150.8754        | 150.8754        | 4.2400e-003        |     | 150.9813        |
| <b>Total</b> | <b>0.0607</b> | <b>0.0376</b> | <b>0.5263</b> | <b>1.5100e-003</b> | <b>0.1521</b> | <b>1.2300e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1300e-003</b> | <b>0.0415</b> |          | <b>150.8754</b> | <b>150.8754</b> | <b>4.2400e-003</b> |     | <b>150.9813</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        | 0.0000        | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> | <b>0.0000</b> | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0607        | 0.0376        | 0.5263        | 1.5100e-003        | 0.1521        | 1.2300e-003        | 0.1534        | 0.0404         | 1.1300e-003        | 0.0415        |          | 150.8754        | 150.8754        | 4.2400e-003        |     | 150.9813        |
| <b>Total</b> | <b>0.0607</b> | <b>0.0376</b> | <b>0.5263</b> | <b>1.5100e-003</b> | <b>0.1521</b> | <b>1.2300e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1300e-003</b> | <b>0.0415</b> |          | <b>150.8754</b> | <b>150.8754</b> | <b>4.2400e-003</b> |     | <b>150.9813</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> |

## Village South Specific Plan (Proposed) - 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       | 0.4079        | 13.2032        | 3.4341         | 0.0364        | 0.9155        | 0.0248        | 0.9404        | 0.2636         | 0.0237        | 0.2873        |          | 3,896.548<br>2         | 3,896.548<br>2         | 0.2236        |     | 3,902.138<br>4         |
| Worker       | 2.4299        | 1.5074         | 21.0801        | 0.0607        | 6.0932        | 0.0493        | 6.1425        | 1.6163         | 0.0454        | 1.6617        |          | 6,042.558<br>5         | 6,042.558<br>5         | 0.1697        |     | 6,046.800<br>0         |
| <b>Total</b> | <b>2.8378</b> | <b>14.7106</b> | <b>24.5142</b> | <b>0.0971</b> | <b>7.0087</b> | <b>0.0741</b> | <b>7.0828</b> | <b>1.8799</b>  | <b>0.0691</b> | <b>1.9490</b> |          | <b>9,939.106<br/>7</b> | <b>9,939.106<br/>7</b> | <b>0.3933</b> |     | <b>9,948.938<br/>4</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        | 2,554.333<br>6         | 2,554.333<br>6         | 0.6120        |     | 2,569.632<br>2         |
| <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>2,554.333<br/>6</b> | <b>2,554.333<br/>6</b> | <b>0.6120</b> |     | <b>2,569.632<br/>2</b> |

## Village South Specific Plan (Proposed) - 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       | 0.4079        | 13.2032        | 3.4341         | 0.0364        | 0.9155        | 0.0248        | 0.9404        | 0.2636         | 0.0237        | 0.2873        |          | 3,896.548<br>2         | 3,896.548<br>2         | 0.2236        |     | 3,902.138<br>4         |
| Worker       | 2.4299        | 1.5074         | 21.0801        | 0.0607        | 6.0932        | 0.0493        | 6.1425        | 1.6163         | 0.0454        | 1.6617        |          | 6,042.558<br>5         | 6,042.558<br>5         | 0.1697        |     | 6,046.800<br>0         |
| <b>Total</b> | <b>2.8378</b> | <b>14.7106</b> | <b>24.5142</b> | <b>0.0971</b> | <b>7.0087</b> | <b>0.0741</b> | <b>7.0828</b> | <b>1.8799</b>  | <b>0.0691</b> | <b>1.9490</b> |          | <b>9,939.106<br/>7</b> | <b>9,939.106<br/>7</b> | <b>0.3933</b> |     | <b>9,948.938<br/>4</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.209<br>9         | 2,555.209<br>9         | 0.6079        |     | 2,570.406<br>1         |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.209<br/>9</b> | <b>2,555.209<br/>9</b> | <b>0.6079</b> |     | <b>2,570.406<br/>1</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.3027        | 10.0181        | 3.1014         | 0.0352        | 0.9156        | 0.0116        | 0.9271        | 0.2636         | 0.0111        | 0.2747        |          | 3,773.876<br>2         | 3,773.876<br>2         | 0.1982        |     | 3,778.830<br>0         |
| Worker       | 2.2780        | 1.3628         | 19.4002        | 0.0584        | 6.0932        | 0.0479        | 6.1411        | 1.6163         | 0.0441        | 1.6604        |          | 5,821.402<br>8         | 5,821.402<br>8         | 0.1529        |     | 5,825.225<br>4         |
| <b>Total</b> | <b>2.5807</b> | <b>11.3809</b> | <b>22.5017</b> | <b>0.0936</b> | <b>7.0088</b> | <b>0.0595</b> | <b>7.0682</b> | <b>1.8799</b>  | <b>0.0552</b> | <b>1.9350</b> |          | <b>9,595.279<br/>0</b> | <b>9,595.279<br/>0</b> | <b>0.3511</b> |     | <b>9,604.055<br/>4</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     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.209<br>9         | 2,555.209<br>9         | 0.6079        |     | 2,570.406<br>1         |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.209<br/>9</b> | <b>2,555.209<br/>9</b> | <b>0.6079</b> |     | <b>2,570.406<br/>1</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Vendor       | 0.3027        | 10.0181        | 3.1014         | 0.0352        | 0.9156        | 0.0116        | 0.9271        | 0.2636         | 0.0111        | 0.2747        |          | 3,773.876<br>2         | 3,773.876<br>2         | 0.1982        |     | 3,778.830<br>0         |
| Worker       | 2.2780        | 1.3628         | 19.4002        | 0.0584        | 6.0932        | 0.0479        | 6.1411        | 1.6163         | 0.0441        | 1.6604        |          | 5,821.402<br>8         | 5,821.402<br>8         | 0.1529        |     | 5,825.225<br>4         |
| <b>Total</b> | <b>2.5807</b> | <b>11.3809</b> | <b>22.5017</b> | <b>0.0936</b> | <b>7.0088</b> | <b>0.0595</b> | <b>7.0682</b> | <b>1.8799</b>  | <b>0.0552</b> | <b>1.9350</b> |          | <b>9,595.279<br/>0</b> | <b>9,595.279<br/>0</b> | <b>0.3511</b> |     | <b>9,604.055<br/>4</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        |          | 2,207.584<br>1         | 2,207.584<br>1         | 0.7140        |     | 2,225.433<br>6         |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> |          | <b>2,207.584<br/>1</b> | <b>2,207.584<br/>1</b> | <b>0.7140</b> |     | <b>2,225.433<br/>6</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0427        | 0.0255        | 0.3633        | 1.0900e-003        | 0.1141        | 9.0000e-004        | 0.1150        | 0.0303         | 8.3000e-004        | 0.0311        |          | 109.0150        | 109.0150        | 2.8600e-003        |     | 109.0866        |
| <b>Total</b> | <b>0.0427</b> | <b>0.0255</b> | <b>0.3633</b> | <b>1.0900e-003</b> | <b>0.1141</b> | <b>9.0000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.3000e-004</b> | <b>0.0311</b> |          | <b>109.0150</b> | <b>109.0150</b> | <b>2.8600e-003</b> |     | <b>109.0866</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     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        | 0.0000        | 2,207.5841        | 2,207.5841        | 0.7140        |     | 2,225.4336        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> | <b>0.0000</b> | <b>2,207.5841</b> | <b>2,207.5841</b> | <b>0.7140</b> |     | <b>2,225.4336</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0427        | 0.0255        | 0.3633        | 1.0900e-003        | 0.1141        | 9.0000e-004        | 0.1150        | 0.0303         | 8.3000e-004        | 0.0311        |          | 109.0150        | 109.0150        | 2.8600e-003        |     | 109.0866        |
| <b>Total</b> | <b>0.0427</b> | <b>0.0255</b> | <b>0.3633</b> | <b>1.0900e-003</b> | <b>0.1141</b> | <b>9.0000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.3000e-004</b> | <b>0.0311</b> |          | <b>109.0150</b> | <b>109.0150</b> | <b>2.8600e-003</b> |     | <b>109.0866</b> |

**3.6 Paving - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        |          | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> |          | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0403        | 0.0233        | 0.3384        | 1.0600e-003        | 0.1141        | 8.8000e-004        | 0.1150        | 0.0303         | 8.1000e-004        | 0.0311        |          | 105.6336        | 105.6336        | 2.6300e-003        |     | 105.6992        |
| <b>Total</b> | <b>0.0403</b> | <b>0.0233</b> | <b>0.3384</b> | <b>1.0600e-003</b> | <b>0.1141</b> | <b>8.8000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.1000e-004</b> | <b>0.0311</b> |          | <b>105.6336</b> | <b>105.6336</b> | <b>2.6300e-003</b> |     | <b>105.6992</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        | 0.0000        | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> | <b>0.0000</b> | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0403        | 0.0233        | 0.3384        | 1.0600e-003        | 0.1141        | 8.8000e-004        | 0.1150        | 0.0303         | 8.1000e-004        | 0.0311        |          | 105.6336        | 105.6336        | 2.6300e-003        |     | 105.6992        |
| <b>Total</b> | <b>0.0403</b> | <b>0.0233</b> | <b>0.3384</b> | <b>1.0600e-003</b> | <b>0.1141</b> | <b>8.8000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.1000e-004</b> | <b>0.0311</b> |          | <b>105.6336</b> | <b>105.6336</b> | <b>2.6300e-003</b> |     | <b>105.6992</b> |

**3.7 Architectural Coating - 2024****Unmitigated Construction On-Site**

|                 | ROG             | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day          |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.7 Architectural Coating - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.4296        | 0.2481        | 3.6098        | 0.0113        | 1.2171        | 9.4300e-003        | 1.2266        | 0.3229         | 8.6800e-003        | 0.3315        |          | 1,126.7583        | 1,126.7583        | 0.0280        |     | 1,127.4583        |
| <b>Total</b> | <b>0.4296</b> | <b>0.2481</b> | <b>3.6098</b> | <b>0.0113</b> | <b>1.2171</b> | <b>9.4300e-003</b> | <b>1.2266</b> | <b>0.3229</b>  | <b>8.6800e-003</b> | <b>0.3315</b> |          | <b>1,126.7583</b> | <b>1,126.7583</b> | <b>0.0280</b> |     | <b>1,127.4583</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 | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        | 0.0000        | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**3.7 Architectural Coating - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.4296        | 0.2481        | 3.6098        | 0.0113        | 1.2171        | 9.4300e-003        | 1.2266        | 0.3229         | 8.6800e-003        | 0.3315        |          | 1,126.7583        | 1,126.7583        | 0.0280        |     | 1,127.4583        |
| <b>Total</b> | <b>0.4296</b> | <b>0.2481</b> | <b>3.6098</b> | <b>0.0113</b> | <b>1.2171</b> | <b>9.4300e-003</b> | <b>1.2266</b> | <b>0.3229</b>  | <b>8.6800e-003</b> | <b>0.3315</b> |          | <b>1,126.7583</b> | <b>1,126.7583</b> | <b>0.0280</b> |     | <b>1,127.4583</b> |

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



## Village South Specific Plan (Proposed) - 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   | 9.8489 | 45.4304 | 114.8495 | 0.4917 | 45.9592       | 0.3360       | 46.2951    | 12.2950        | 0.3119        | 12.6070     |          | 50,306.60<br>34 | 50,306.60<br>34 | 2.1807 |     | 50,361.12<br>08 |
| Unmitigated | 9.8489 | 45.4304 | 114.8495 | 0.4917 | 45.9592       | 0.3360       | 46.2951    | 12.2950        | 0.3119        | 12.6070     |          | 50,306.60<br>34 | 50,306.60<br>34 | 2.1807 |     | 50,361.12<br>08 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise                 | 145.75                  | 154.25   | 154.00   | 506,227     | 506,227    |
| Apartments Mid Rise                 | 4,026.75                | 3,773.25 | 4075.50  | 13,660,065  | 13,660,065 |
| General Office Building             | 288.45                  | 62.55    | 31.05    | 706,812     | 706,812    |
| High Turnover (Sit Down Restaurant) | 2,368.80                | 2,873.52 | 2817.72  | 3,413,937   | 3,413,937  |
| Hotel                               | 192.00                  | 187.50   | 160.00   | 445,703     | 445,703    |
| Quality Restaurant                  | 501.12                  | 511.92   | 461.20   | 707,488     | 707,488    |
| Regional Shopping Center            | 528.08                  | 601.44   | 357.84   | 1,112,221   | 1,112,221  |
| Total                               | 8,050.95                | 8,164.43 | 8,057.31 | 20,552,452  | 20,552,452 |

## 4.3 Trip Type Information

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

| Land Use                 | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                          | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| Apartments Mid Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| General Office Building  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |
| High Turnover (Sit Down  | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Hotel                    | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Quality Restaurant       | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Regional Shopping Center | 16.60      | 8.40       | 6.90        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Apartments Mid Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| General Office Building             | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| High Turnover (Sit Down Restaurant) | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Hotel                               | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Quality Restaurant                  | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Regional Shopping Center            | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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## Village South Specific Plan (Proposed) - 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   |                |                |        |        |                |
| NaturalGas Mitigated   | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |
| NaturalGas Unmitigated | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1119.16        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35784.3        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1283.42        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22759.9        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4769.72        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5057.75        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 251.616        | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1.11916        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35.7843        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1.28342        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22.7599        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4.76972        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5.05775        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 0.251616       | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Village South Specific Plan (Proposed) - 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   | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |
| Unmitigated | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | lb/day         |                |                |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Architectural Coating | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

## Village South Specific Plan (Proposed) - 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 | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

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

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

**10.0 Stationary Equipment**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

**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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## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

## Village South Specific Plan (Proposed)

### Los Angeles-South Coast County, Winter

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 45.00  | 1000sqft      | 1.03        | 45,000.00          | 0          |
| High Turnover (Sit Down Restaurant) | 36.00  | 1000sqft      | 0.83        | 36,000.00          | 0          |
| Hotel                               | 50.00  | Room          | 1.67        | 72,600.00          | 0          |
| Quality Restaurant                  | 8.00   | 1000sqft      | 0.18        | 8,000.00           | 0          |
| Apartments Low Rise                 | 25.00  | Dwelling Unit | 1.56        | 25,000.00          | 72         |
| Apartments Mid Rise                 | 975.00 | Dwelling Unit | 25.66       | 975,000.00         | 2789       |
| Regional Shopping Center            | 56.00  | 1000sqft      | 1.29        | 56,000.00          | 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>          | 2028  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

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

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

| Table Name      | Column Name       | Default Value | New Value |
|-----------------|-------------------|---------------|-----------|
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | FireplaceWoodMass | 1,019.20      | 0.00      |
| tblFireplaces   | NumberWood        | 1.25          | 0.00      |
| tblFireplaces   | NumberWood        | 48.75         | 0.00      |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblTripsAndVMT  | WorkerTripLength  | 14.70         | 10.00     |
| tblVehicleTrips | ST_TR             | 7.16          | 6.17      |
| tblVehicleTrips | ST_TR             | 6.39          | 3.87      |
| tblVehicleTrips | ST_TR             | 2.46          | 1.39      |
| tblVehicleTrips | ST_TR             | 158.37        | 79.82     |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| tblVehicleTrips | ST_TR              | 8.19   | 3.75  |
| tblVehicleTrips | ST_TR              | 94.36  | 63.99 |
| tblVehicleTrips | ST_TR              | 49.97  | 10.74 |
| tblVehicleTrips | SU_TR              | 6.07   | 6.16  |
| tblVehicleTrips | SU_TR              | 5.86   | 4.18  |
| tblVehicleTrips | SU_TR              | 1.05   | 0.69  |
| tblVehicleTrips | SU_TR              | 131.84 | 78.27 |
| tblVehicleTrips | SU_TR              | 5.95   | 3.20  |
| tblVehicleTrips | SU_TR              | 72.16  | 57.65 |
| tblVehicleTrips | SU_TR              | 25.24  | 6.39  |
| tblVehicleTrips | WD_TR              | 6.59   | 5.83  |
| tblVehicleTrips | WD_TR              | 6.65   | 4.13  |
| tblVehicleTrips | WD_TR              | 11.03  | 6.41  |
| tblVehicleTrips | WD_TR              | 127.15 | 65.80 |
| tblVehicleTrips | WD_TR              | 8.17   | 3.84  |
| tblVehicleTrips | WD_TR              | 89.95  | 62.64 |
| tblVehicleTrips | WD_TR              | 42.70  | 9.43  |
| tblWoodstoves   | NumberCatalytic    | 1.25   | 0.00  |
| tblWoodstoves   | NumberCatalytic    | 48.75  | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 1.25   | 0.00  |
| tblWoodstoves   | NumberNoncatalytic | 48.75  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveDayYear   | 25.00  | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |
| tblWoodstoves   | WoodstoveWoodMass  | 999.60 | 0.00  |

## 2.0 Emissions Summary

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**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    | 4.2621   | 46.4460 | 31.4068 | 0.0635 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 6,154.3377  | 6,154.3377  | 1.9472 | 0.0000 | 6,203.0186  |
| 2022    | 4.7966   | 38.8851 | 39.6338 | 0.1195 | 8.8255        | 1.6361       | 10.4616    | 3.6369         | 1.5052        | 5.1421      | 0.0000   | 12,035.3440 | 12,035.3440 | 1.9482 | 0.0000 | 12,060.6013 |
| 2023    | 4.3939   | 25.8648 | 37.5031 | 0.1162 | 7.0088        | 0.7598       | 7.7685     | 1.8799         | 0.7142        | 2.5940      | 0.0000   | 11,710.4080 | 11,710.4080 | 0.9617 | 0.0000 | 11,734.4497 |
| 2024    | 237.0656 | 9.5503  | 14.9372 | 0.0238 | 1.2171        | 0.4694       | 1.2875     | 0.3229         | 0.4319        | 0.4621      | 0.0000   | 2,307.0517  | 2,307.0517  | 0.7164 | 0.0000 | 2,324.9627  |
| Maximum | 237.0656 | 46.4460 | 39.6338 | 0.1195 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 12,035.3440 | 12,035.3440 | 1.9482 | 0.0000 | 12,060.6013 |

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### 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    | 4.2621   | 46.4460 | 31.4068 | 0.0635 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 6,154.3377  | 6,154.3377  | 1.9472 | 0.0000 | 6,203.0186  |
| 2022    | 4.7966   | 38.8851 | 39.6338 | 0.1195 | 8.8255        | 1.6361       | 10.4616    | 3.6369         | 1.5052        | 5.1421      | 0.0000   | 12,035.3440 | 12,035.3440 | 1.9482 | 0.0000 | 12,060.6013 |
| 2023    | 4.3939   | 25.8648 | 37.5031 | 0.1162 | 7.0088        | 0.7598       | 7.7685     | 1.8799         | 0.7142        | 2.5940      | 0.0000   | 11,710.4080 | 11,710.4080 | 0.9617 | 0.0000 | 11,734.4497 |
| 2024    | 237.0656 | 9.5503  | 14.9372 | 0.0238 | 1.2171        | 0.4694       | 1.2875     | 0.3229         | 0.4319        | 0.4621      | 0.0000   | 2,307.0517  | 2,307.0517  | 0.7164 | 0.0000 | 2,324.9627  |
| Maximum | 237.0656 | 46.4460 | 39.6338 | 0.1195 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 12,035.3440 | 12,035.3440 | 1.9482 | 0.0000 | 12,060.6013 |

[illegible]

## Village South Specific Plan (Proposed) - 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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.5233         | 45.9914        | 110.0422        | 0.4681        | 45.9592        | 0.3373        | 46.2965        | 12.2950        | 0.3132        | 12.6083        |               | 47,917.80<br>05         | 47,917.80<br>05         | 2.1953        |               | 47,972.68<br>39         |
| <b>Total</b> | <b>40.7912</b> | <b>67.7872</b> | <b>202.7424</b> | <b>0.6043</b> | <b>45.9592</b> | <b>2.4640</b> | <b>48.4231</b> | <b>12.2950</b> | <b>2.4399</b> | <b>14.7349</b> | <b>0.0000</b> | <b>74,422.37<br/>87</b> | <b>74,422.37<br/>87</b> | <b>2.8429</b> | <b>0.4832</b> | <b>74,637.44<br/>17</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         | 30.5020        | 15.0496        | 88.4430         | 0.0944        |                | 1.5974        | 1.5974         |                | 1.5974        | 1.5974         | 0.0000        | 18,148.59<br>50         | 18,148.59<br>50         | 0.4874        | 0.3300        | 18,259.11<br>92         |
| Energy       | 0.7660         | 6.7462         | 4.2573          | 0.0418        |                | 0.5292        | 0.5292         |                | 0.5292        | 0.5292         |               | 8,355.983<br>2          | 8,355.983<br>2          | 0.1602        | 0.1532        | 8,405.638<br>7          |
| Mobile       | 9.5233         | 45.9914        | 110.0422        | 0.4681        | 45.9592        | 0.3373        | 46.2965        | 12.2950        | 0.3132        | 12.6083        |               | 47,917.80<br>05         | 47,917.80<br>05         | 2.1953        |               | 47,972.68<br>39         |
| <b>Total</b> | <b>40.7912</b> | <b>67.7872</b> | <b>202.7424</b> | <b>0.6043</b> | <b>45.9592</b> | <b>2.4640</b> | <b>48.4231</b> | <b>12.2950</b> | <b>2.4399</b> | <b>14.7349</b> | <b>0.0000</b> | <b>74,422.37<br/>87</b> | <b>74,422.37<br/>87</b> | <b>2.8429</b> | <b>0.4832</b> | <b>74,637.44<br/>17</b> |

## Village South Specific Plan (Proposed) - 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

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 9/1/2021   | 10/12/2021 | 5             | 30       |                   |
| 2            | Site Preparation      | Site Preparation      | 10/13/2021 | 11/9/2021  | 5             | 20       |                   |
| 3            | Grading               | Grading               | 11/10/2021 | 1/11/2022  | 5             | 45       |                   |
| 4            | Building Construction | Building Construction | 1/12/2022  | 12/12/2023 | 5             | 500      |                   |
| 5            | Paving                | Paving                | 12/13/2023 | 1/30/2024  | 5             | 35       |                   |
| 6            | Architectural Coating | Architectural Coating | 1/31/2024  | 3/19/2024  | 5             | 35       |                   |

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

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 0**

**Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

## Village South Specific Plan (Proposed) - 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      | Rubber Tired Dozers       | 3      | 8.00        | 247         | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Grading               | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 247         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 367         | 0.48        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 7.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 3      | 8.00        | 89          | 0.20        |
| Building Construction | Generator Sets            | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |
| Paving                | Pavers                    | 2      | 8.00        | 130         | 0.42        |
| Paving                | Paving Equipment          | 2      | 8.00        | 132         | 0.36        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

Trips and VMT



## Village South Specific Plan (Proposed) - 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               | 458.00              | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 801.00             | 143.00             | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 160.00             | 0.00               | 0.00                | 10.00              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## 3.1 Mitigation Measures Construction

## 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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |          |                   | 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>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> |          | <b>3,747.9449</b> | <b>3,747.9449</b> | <b>1.0549</b> |     | <b>3,774.3174</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1304        | 4.1454        | 1.0182        | 0.0117        | 0.2669        | 0.0128        | 0.2797        | 0.0732         | 0.0122        | 0.0854        |          | 1,269.855<br>5         | 1,269.855<br>5         | 0.0908        |     | 1,272.125<br>2         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.0532        | 0.0346        | 0.3963        | 1.1100e-003   | 0.1141        | 9.5000e-004   | 0.1151        | 0.0303         | 8.8000e-004   | 0.0311        |          | 110.4707               | 110.4707               | 3.3300e-003   |     | 110.5539               |
| <b>Total</b> | <b>0.1835</b> | <b>4.1800</b> | <b>1.4144</b> | <b>0.0128</b> | <b>0.3810</b> | <b>0.0137</b> | <b>0.3948</b> | <b>0.1034</b>  | <b>0.0131</b> | <b>0.1165</b> |          | <b>1,380.326<br/>2</b> | <b>1,380.326<br/>2</b> | <b>0.0941</b> |     | <b>1,382.679<br/>1</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 |               |                |                |               | 3.3074        | 0.0000        | 3.3074        | 0.5008         | 0.0000        | 0.5008        |               |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 3.1651        | 31.4407        | 21.5650        | 0.0388        |               | 1.5513        | 1.5513        |                | 1.4411        | 1.4411        | 0.0000        | 3,747.944<br>9         | 3,747.944<br>9         | 1.0549        |     | 3,774.317<br>4         |
| <b>Total</b>  | <b>3.1651</b> | <b>31.4407</b> | <b>21.5650</b> | <b>0.0388</b> | <b>3.3074</b> | <b>1.5513</b> | <b>4.8588</b> | <b>0.5008</b>  | <b>1.4411</b> | <b>1.9419</b> | <b>0.0000</b> | <b>3,747.944<br/>9</b> | <b>3,747.944<br/>9</b> | <b>1.0549</b> |     | <b>3,774.317<br/>4</b> |

## Village South Specific Plan (Proposed) - 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      | 0.1304        | 4.1454        | 1.0182        | 0.0117        | 0.2669        | 0.0128        | 0.2797        | 0.0732         | 0.0122        | 0.0854        |          | 1,269.855<br>5         | 1,269.855<br>5         | 0.0908        |     | 1,272.125<br>2         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000                 | 0.0000                 | 0.0000        |     | 0.0000                 |
| Worker       | 0.0532        | 0.0346        | 0.3963        | 1.1100e-003   | 0.1141        | 9.5000e-004   | 0.1151        | 0.0303         | 8.8000e-004   | 0.0311        |          | 110.4707               | 110.4707               | 3.3300e-003   |     | 110.5539               |
| <b>Total</b> | <b>0.1835</b> | <b>4.1800</b> | <b>1.4144</b> | <b>0.0128</b> | <b>0.3810</b> | <b>0.0137</b> | <b>0.3948</b> | <b>0.1034</b>  | <b>0.0131</b> | <b>0.1165</b> |          | <b>1,380.326<br/>2</b> | <b>1,380.326<br/>2</b> | <b>0.0941</b> |     | <b>1,382.679<br/>1</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      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         |          | 3,685.656<br>9         | 3,685.656<br>9         | 1.1920        |     | 3,715.457<br>3         |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> |          | <b>3,685.656<br/>9</b> | <b>3,685.656<br/>9</b> | <b>1.1920</b> |     | <b>3,715.457<br/>3</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0638        | 0.0415        | 0.4755        | 1.3300e-003        | 0.1369        | 1.1400e-003        | 0.1381        | 0.0363         | 1.0500e-003        | 0.0374        |          | 132.5649        | 132.5649        | 3.9900e-003        |     | 132.6646        |
| <b>Total</b> | <b>0.0638</b> | <b>0.0415</b> | <b>0.4755</b> | <b>1.3300e-003</b> | <b>0.1369</b> | <b>1.1400e-003</b> | <b>0.1381</b> | <b>0.0363</b>  | <b>1.0500e-003</b> | <b>0.0374</b> |          | <b>132.5649</b> | <b>132.5649</b> | <b>3.9900e-003</b> |     | <b>132.6646</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 |               |                |                |               | 18.0663        | 0.0000        | 18.0663        | 9.9307         | 0.0000        | 9.9307         |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.8882        | 40.4971        | 21.1543        | 0.0380        |                | 2.0445        | 2.0445         |                | 1.8809        | 1.8809         | 0.0000        | 3,685.6569        | 3,685.6569        | 1.1920        |     | 3,715.4573        |
| <b>Total</b>  | <b>3.8882</b> | <b>40.4971</b> | <b>21.1543</b> | <b>0.0380</b> | <b>18.0663</b> | <b>2.0445</b> | <b>20.1107</b> | <b>9.9307</b>  | <b>1.8809</b> | <b>11.8116</b> | <b>0.0000</b> | <b>3,685.6569</b> | <b>3,685.6569</b> | <b>1.1920</b> |     | <b>3,715.4573</b> |

## Village South Specific Plan (Proposed) - 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       | 0.0638        | 0.0415        | 0.4755        | 1.3300e-003        | 0.1369        | 1.1400e-003        | 0.1381        | 0.0363         | 1.0500e-003        | 0.0374        |          | 132.5649        | 132.5649        | 3.9900e-003        |     | 132.6646        |
| <b>Total</b> | <b>0.0638</b> | <b>0.0415</b> | <b>0.4755</b> | <b>1.3300e-003</b> | <b>0.1369</b> | <b>1.1400e-003</b> | <b>0.1381</b> | <b>0.0363</b>  | <b>1.0500e-003</b> | <b>0.0374</b> |          | <b>132.5649</b> | <b>132.5649</b> | <b>3.9900e-003</b> |     | <b>132.6646</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        |          | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> |          | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0709        | 0.0462        | 0.5284        | 1.4800e-003        | 0.1521        | 1.2700e-003        | 0.1534        | 0.0404         | 1.1700e-003        | 0.0415        |          | 147.2943        | 147.2943        | 4.4300e-003        |     | 147.4051        |
| <b>Total</b> | <b>0.0709</b> | <b>0.0462</b> | <b>0.5284</b> | <b>1.4800e-003</b> | <b>0.1521</b> | <b>1.2700e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1700e-003</b> | <b>0.0415</b> |          | <b>147.2943</b> | <b>147.2943</b> | <b>4.4300e-003</b> |     | <b>147.4051</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.1912        | 46.3998        | 30.8785        | 0.0620        |               | 1.9853        | 1.9853         |                | 1.8265        | 1.8265        | 0.0000        | 6,007.0434        | 6,007.0434        | 1.9428        |     | 6,055,6134        |
| <b>Total</b>  | <b>4.1912</b> | <b>46.3998</b> | <b>30.8785</b> | <b>0.0620</b> | <b>8.6733</b> | <b>1.9853</b> | <b>10.6587</b> | <b>3.5965</b>  | <b>1.8265</b> | <b>5.4230</b> | <b>0.0000</b> | <b>6,007.0434</b> | <b>6,007.0434</b> | <b>1.9428</b> |     | <b>6,055,6134</b> |

## Village South Specific Plan (Proposed) - 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      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0709        | 0.0462        | 0.5284        | 1.4800e-003        | 0.1521        | 1.2700e-003        | 0.1534        | 0.0404         | 1.1700e-003        | 0.0415        |          | 147.2943        | 147.2943        | 4.4300e-003        |     | 147.4051        |
| <b>Total</b> | <b>0.0709</b> | <b>0.0462</b> | <b>0.5284</b> | <b>1.4800e-003</b> | <b>0.1521</b> | <b>1.2700e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1700e-003</b> | <b>0.0415</b> |          | <b>147.2943</b> | <b>147.2943</b> | <b>4.4300e-003</b> |     | <b>147.4051</b> |

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

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |                |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        |          | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> |          | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0665        | 0.0416        | 0.4861        | 1.4300e-003        | 0.1521        | 1.2300e-003        | 0.1534        | 0.0404         | 1.1300e-003        | 0.0415        |          | 142.1207        | 142.1207        | 4.0000e-003        |     | 142.2207        |
| <b>Total</b> | <b>0.0665</b> | <b>0.0416</b> | <b>0.4861</b> | <b>1.4300e-003</b> | <b>0.1521</b> | <b>1.2300e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1300e-003</b> | <b>0.0415</b> |          | <b>142.1207</b> | <b>142.1207</b> | <b>4.0000e-003</b> |     | <b>142.2207</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 |               |                |                |               | 8.6733        | 0.0000        | 8.6733         | 3.5965         | 0.0000        | 3.5965        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.6248        | 38.8435        | 29.0415        | 0.0621        |               | 1.6349        | 1.6349         |                | 1.5041        | 1.5041        | 0.0000        | 6,011.4105        | 6,011.4105        | 1.9442        |     | 6,060.0158        |
| <b>Total</b>  | <b>3.6248</b> | <b>38.8435</b> | <b>29.0415</b> | <b>0.0621</b> | <b>8.6733</b> | <b>1.6349</b> | <b>10.3082</b> | <b>3.5965</b>  | <b>1.5041</b> | <b>5.1006</b> | <b>0.0000</b> | <b>6,011.4105</b> | <b>6,011.4105</b> | <b>1.9442</b> |     | <b>6,060.0158</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0665        | 0.0416        | 0.4861        | 1.4300e-003        | 0.1521        | 1.2300e-003        | 0.1534        | 0.0404         | 1.1300e-003        | 0.0415        |          | 142.1207        | 142.1207        | 4.0000e-003        |     | 142.2207        |
| <b>Total</b> | <b>0.0665</b> | <b>0.0416</b> | <b>0.4861</b> | <b>1.4300e-003</b> | <b>0.1521</b> | <b>1.2300e-003</b> | <b>0.1534</b> | <b>0.0404</b>  | <b>1.1300e-003</b> | <b>0.0415</b> |          | <b>142.1207</b> | <b>142.1207</b> | <b>4.0000e-003</b> |     | <b>142.2207</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> |

## Village South Specific Plan (Proposed) - 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       | 0.4284        | 13.1673        | 3.8005         | 0.0354        | 0.9155        | 0.0256        | 0.9412        | 0.2636         | 0.0245        | 0.2881        |          | 3,789.075<br>0         | 3,789.075<br>0         | 0.2381        |     | 3,795.028<br>3         |
| Worker       | 2.6620        | 1.6677         | 19.4699        | 0.0571        | 6.0932        | 0.0493        | 6.1425        | 1.6163         | 0.0454        | 1.6617        |          | 5,691.935<br>4         | 5,691.935<br>4         | 0.1602        |     | 5,695.940<br>8         |
| <b>Total</b> | <b>3.0904</b> | <b>14.8350</b> | <b>23.2704</b> | <b>0.0926</b> | <b>7.0087</b> | <b>0.0749</b> | <b>7.0836</b> | <b>1.8799</b>  | <b>0.0699</b> | <b>1.9498</b> |          | <b>9,481.010<br/>4</b> | <b>9,481.010<br/>4</b> | <b>0.3984</b> |     | <b>9,490.969<br/>1</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        | 2,554.333<br>6         | 2,554.333<br>6         | 0.6120        |     | 2,569.632<br>2         |
| <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>2,554.333<br/>6</b> | <b>2,554.333<br/>6</b> | <b>0.6120</b> |     | <b>2,569.632<br/>2</b> |

## Village South Specific Plan (Proposed) - 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       | 0.4284        | 13.1673        | 3.8005         | 0.0354        | 0.9155        | 0.0256        | 0.9412        | 0.2636         | 0.0245        | 0.2881        |          | 3,789.075<br>0         | 3,789.075<br>0         | 0.2381        |     | 3,795.028<br>3         |
| Worker       | 2.6620        | 1.6677         | 19.4699        | 0.0571        | 6.0932        | 0.0493        | 6.1425        | 1.6163         | 0.0454        | 1.6617        |          | 5,691.935<br>4         | 5,691.935<br>4         | 0.1602        |     | 5,695.940<br>8         |
| <b>Total</b> | <b>3.0904</b> | <b>14.8350</b> | <b>23.2704</b> | <b>0.0926</b> | <b>7.0087</b> | <b>0.0749</b> | <b>7.0836</b> | <b>1.8799</b>  | <b>0.0699</b> | <b>1.9498</b> |          | <b>9,481.010<br/>4</b> | <b>9,481.010<br/>4</b> | <b>0.3984</b> |     | <b>9,490.969<br/>1</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        |          | 2,555.209<br>9         | 2,555.209<br>9         | 0.6079        |     | 2,570.406<br>1         |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> |          | <b>2,555.209<br/>9</b> | <b>2,555.209<br/>9</b> | <b>0.6079</b> |     | <b>2,570.406<br/>1</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.3183        | 9.9726         | 3.3771         | 0.0343        | 0.9156        | 0.0122        | 0.9277        | 0.2636         | 0.0116        | 0.2752        |          | 3,671.4007        | 3,671.4007        | 0.2096        |     | 3,676.6417        |
| Worker       | 2.5029        | 1.5073         | 17.8820        | 0.0550        | 6.0932        | 0.0479        | 6.1411        | 1.6163         | 0.0441        | 1.6604        |          | 5,483.7974        | 5,483.7974        | 0.1442        |     | 5,487.4020        |
| <b>Total</b> | <b>2.8211</b> | <b>11.4799</b> | <b>21.2591</b> | <b>0.0893</b> | <b>7.0088</b> | <b>0.0601</b> | <b>7.0688</b> | <b>1.8799</b>  | <b>0.0557</b> | <b>1.9356</b> |          | <b>9,155.1981</b> | <b>9,155.1981</b> | <b>0.3538</b> |     | <b>9,164.0437</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     | 1.5728        | 14.3849        | 16.2440        | 0.0269        |               | 0.6997        | 0.6997        |                | 0.6584        | 0.6584        | 0.0000        | 2,555.2099        | 2,555.2099        | 0.6079        |     | 2,570.4061        |
| <b>Total</b> | <b>1.5728</b> | <b>14.3849</b> | <b>16.2440</b> | <b>0.0269</b> |               | <b>0.6997</b> | <b>0.6997</b> |                | <b>0.6584</b> | <b>0.6584</b> | <b>0.0000</b> | <b>2,555.2099</b> | <b>2,555.2099</b> | <b>0.6079</b> |     | <b>2,570.4061</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.3183        | 9.9726         | 3.3771         | 0.0343        | 0.9156        | 0.0122        | 0.9277        | 0.2636         | 0.0116        | 0.2752        |          | 3,671.4007        | 3,671.4007        | 0.2096        |     | 3,676.6417        |
| Worker       | 2.5029        | 1.5073         | 17.8820        | 0.0550        | 6.0932        | 0.0479        | 6.1411        | 1.6163         | 0.0441        | 1.6604        |          | 5,483.7974        | 5,483.7974        | 0.1442        |     | 5,487.4020        |
| <b>Total</b> | <b>2.8211</b> | <b>11.4799</b> | <b>21.2591</b> | <b>0.0893</b> | <b>7.0088</b> | <b>0.0601</b> | <b>7.0688</b> | <b>1.8799</b>  | <b>0.0557</b> | <b>1.9356</b> |          | <b>9,155.1981</b> | <b>9,155.1981</b> | <b>0.3538</b> |     | <b>9,164.0437</b> |

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

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        |          | 2,207.5841        | 2,207.5841        | 0.7140        |     | 2,225.4336        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> |          | <b>2,207.5841</b> | <b>2,207.5841</b> | <b>0.7140</b> |     | <b>2,225.4336</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0469        | 0.0282        | 0.3349        | 1.0300e-003        | 0.1141        | 9.0000e-004        | 0.1150        | 0.0303         | 8.3000e-004        | 0.0311        |          | 102.6928        | 102.6928        | 2.7000e-003        |     | 102.7603        |
| <b>Total</b> | <b>0.0469</b> | <b>0.0282</b> | <b>0.3349</b> | <b>1.0300e-003</b> | <b>0.1141</b> | <b>9.0000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.3000e-004</b> | <b>0.0311</b> |          | <b>102.6928</b> | <b>102.6928</b> | <b>2.7000e-003</b> |     | <b>102.7603</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     | 1.0327        | 10.1917        | 14.5842        | 0.0228        |               | 0.5102        | 0.5102        |                | 0.4694        | 0.4694        | 0.0000        | 2,207.5841        | 2,207.5841        | 0.7140        |     | 2,225.4336        |
| Paving       | 0.0000        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.0327</b> | <b>10.1917</b> | <b>14.5842</b> | <b>0.0228</b> |               | <b>0.5102</b> | <b>0.5102</b> |                | <b>0.4694</b> | <b>0.4694</b> | <b>0.0000</b> | <b>2,207.5841</b> | <b>2,207.5841</b> | <b>0.7140</b> |     | <b>2,225.4336</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

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

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0469        | 0.0282        | 0.3349        | 1.0300e-003        | 0.1141        | 9.0000e-004        | 0.1150        | 0.0303         | 8.3000e-004        | 0.0311        |          | 102.6928        | 102.6928        | 2.7000e-003        |     | 102.7603        |
| <b>Total</b> | <b>0.0469</b> | <b>0.0282</b> | <b>0.3349</b> | <b>1.0300e-003</b> | <b>0.1141</b> | <b>9.0000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.3000e-004</b> | <b>0.0311</b> |          | <b>102.6928</b> | <b>102.6928</b> | <b>2.7000e-003</b> |     | <b>102.7603</b> |

**3.6 Paving - 2024****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2              | Total CO2              | CH4           | N2O | CO2e                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        |          | 2,207.547<br>2         | 2,207.547<br>2         | 0.7140        |     | 2,225.396<br>3         |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                        | 0.0000                 |               |     | 0.0000                 |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> |          | <b>2,207.547<br/>2</b> | <b>2,207.547<br/>2</b> | <b>0.7140</b> |     | <b>2,225.396<br/>3</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0444        | 0.0257        | 0.3114        | 1.0000e-003        | 0.1141        | 8.8000e-004        | 0.1150        | 0.0303         | 8.1000e-004        | 0.0311        |          | 99.5045        | 99.5045        | 2.4700e-003        |     | 99.5663        |
| <b>Total</b> | <b>0.0444</b> | <b>0.0257</b> | <b>0.3114</b> | <b>1.0000e-003</b> | <b>0.1141</b> | <b>8.8000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.1000e-004</b> | <b>0.0311</b> |          | <b>99.5045</b> | <b>99.5045</b> | <b>2.4700e-003</b> |     | <b>99.5663</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.9882        | 9.5246        | 14.6258        | 0.0228        |               | 0.4685        | 0.4685        |                | 0.4310        | 0.4310        | 0.0000        | 2,207.5472        | 2,207.5472        | 0.7140        |     | 2,225.3963        |
| Paving       | 0.0000        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.9882</b> | <b>9.5246</b> | <b>14.6258</b> | <b>0.0228</b> |               | <b>0.4685</b> | <b>0.4685</b> |                | <b>0.4310</b> | <b>0.4310</b> | <b>0.0000</b> | <b>2,207.5472</b> | <b>2,207.5472</b> | <b>0.7140</b> |     | <b>2,225.3963</b> |



## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0444        | 0.0257        | 0.3114        | 1.0000e-003        | 0.1141        | 8.8000e-004        | 0.1150        | 0.0303         | 8.1000e-004        | 0.0311        |          | 99.5045        | 99.5045        | 2.4700e-003        |     | 99.5663        |
| <b>Total</b> | <b>0.0444</b> | <b>0.0257</b> | <b>0.3114</b> | <b>1.0000e-003</b> | <b>0.1141</b> | <b>8.8000e-004</b> | <b>0.1150</b> | <b>0.0303</b>  | <b>8.1000e-004</b> | <b>0.0311</b> |          | <b>99.5045</b> | <b>99.5045</b> | <b>2.4700e-003</b> |     | <b>99.5663</b> |

**3.7 Architectural Coating - 2024****Unmitigated Construction On-Site**

|                 | ROG             | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day          |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2024****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.4734        | 0.2743        | 3.3220        | 0.0107        | 1.2171        | 9.4300e-003        | 1.2266        | 0.3229         | 8.6800e-003        | 0.3315        |          | 1,061.3818        | 1,061.3818        | 0.0264        |     | 1,062.0410        |
| <b>Total</b> | <b>0.4734</b> | <b>0.2743</b> | <b>3.3220</b> | <b>0.0107</b> | <b>1.2171</b> | <b>9.4300e-003</b> | <b>1.2266</b> | <b>0.3229</b>  | <b>8.6800e-003</b> | <b>0.3315</b> |          | <b>1,061.3818</b> | <b>1,061.3818</b> | <b>0.0264</b> |     | <b>1,062.0410</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 | 236.4115        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1808          | 1.2188        | 1.8101        | 2.9700e-003        |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        | 0.0000        | 281.4481        | 281.4481        | 0.0159        |     | 281.8443        |
| <b>Total</b>    | <b>236.5923</b> | <b>1.2188</b> | <b>1.8101</b> | <b>2.9700e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0159</b> |     | <b>281.8443</b> |

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2024****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |                    |               |                |                    |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.4734        | 0.2743        | 3.3220        | 0.0107        | 1.2171        | 9.4300e-003        | 1.2266        | 0.3229         | 8.6800e-003        | 0.3315        |          | 1,061.3818        | 1,061.3818        | 0.0264        |     | 1,062.0410        |
| <b>Total</b> | <b>0.4734</b> | <b>0.2743</b> | <b>3.3220</b> | <b>0.0107</b> | <b>1.2171</b> | <b>9.4300e-003</b> | <b>1.2266</b> | <b>0.3229</b>  | <b>8.6800e-003</b> | <b>0.3315</b> |          | <b>1,061.3818</b> | <b>1,061.3818</b> | <b>0.0264</b> |     | <b>1,062.0410</b> |

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

## Village South Specific Plan (Proposed) - 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   | 9.5233 | 45.9914 | 110.0422 | 0.4681 | 45.9592       | 0.3373       | 46.2965    | 12.2950        | 0.3132        | 12.6083     |          | 47,917.8005 | 47,917.8005 | 2.1953 |     | 47,972.6839 |
| Unmitigated | 9.5233 | 45.9914 | 110.0422 | 0.4681 | 45.9592       | 0.3373       | 46.2965    | 12.2950        | 0.3132        | 12.6083     |          | 47,917.8005 | 47,917.8005 | 2.1953 |     | 47,972.6839 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise                 | 145.75                  | 154.25   | 154.00   | 506,227     | 506,227    |
| Apartments Mid Rise                 | 4,026.75                | 3,773.25 | 4075.50  | 13,660,065  | 13,660,065 |
| General Office Building             | 288.45                  | 62.55    | 31.05    | 706,812     | 706,812    |
| High Turnover (Sit Down Restaurant) | 2,368.80                | 2,873.52 | 2817.72  | 3,413,937   | 3,413,937  |
| Hotel                               | 192.00                  | 187.50   | 160.00   | 445,703     | 445,703    |
| Quality Restaurant                  | 501.12                  | 511.92   | 461.20   | 707,488     | 707,488    |
| Regional Shopping Center            | 528.08                  | 601.44   | 357.84   | 1,112,221   | 1,112,221  |
| Total                               | 8,050.95                | 8,164.43 | 8,057.31 | 20,552,452  | 20,552,452 |

## 4.3 Trip Type Information

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

| Land Use                 | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                          | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| Apartments Mid Rise      | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| General Office Building  | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 77             | 19       | 4       |
| High Turnover (Sit Down  | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Hotel                    | 16.60      | 8.40       | 6.90        | 19.40      | 61.60      | 19.00       | 58             | 38       | 4       |
| Quality Restaurant       | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Regional Shopping Center | 16.60      | 8.40       | 6.90        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Apartments Mid Rise                 | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| General Office Building             | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| High Turnover (Sit Down Restaurant) | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Hotel                               | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Quality Restaurant                  | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |
| Regional Shopping Center            | 0.543088 | 0.044216 | 0.209971 | 0.116369 | 0.014033 | 0.006332 | 0.021166 | 0.033577 | 0.002613 | 0.001817 | 0.005285 | 0.000712 | 0.000821 |

## 5.0 Energy Detail

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Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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## Village South Specific Plan (Proposed) - 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   |                |                |        |        |                |
| NaturalGas Mitigated   | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |
| NaturalGas Unmitigated | 0.7660 | 6.7462 | 4.2573 | 0.0418 |               | 0.5292       | 0.5292     |                | 0.5292        | 0.5292      |          | 8,355.983<br>2 | 8,355.983<br>2 | 0.1602 | 0.1532 | 8,405.638<br>7 |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1119.16        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35784.3        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1283.42        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22759.9        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4769.72        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5057.75        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 251.616        | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

## Village South Specific Plan (Proposed) - 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   |                   |                   |               |               |                   |
| Apartments Low Rise                 | 1.11916        | 0.0121        | 0.1031        | 0.0439        | 6.6000e-004   |               | 8.3400e-003   | 8.3400e-003   |                | 8.3400e-003   | 8.3400e-003   |          | 131.6662          | 131.6662          | 2.5200e-003   | 2.4100e-003   | 132.4486          |
| Apartments Mid Rise                 | 35.7843        | 0.3859        | 3.2978        | 1.4033        | 0.0211        |               | 0.2666        | 0.2666        |                | 0.2666        | 0.2666        |          | 4,209.9164        | 4,209.9164        | 0.0807        | 0.0772        | 4,234.9339        |
| General Office Building             | 1.28342        | 0.0138        | 0.1258        | 0.1057        | 7.5000e-004   |               | 9.5600e-003   | 9.5600e-003   |                | 9.5600e-003   | 9.5600e-003   |          | 150.9911          | 150.9911          | 2.8900e-003   | 2.7700e-003   | 151.8884          |
| High Turnover (Sit Down Restaurant) | 22.7599        | 0.2455        | 2.2314        | 1.8743        | 0.0134        |               | 0.1696        | 0.1696        |                | 0.1696        | 0.1696        |          | 2,677.6342        | 2,677.6342        | 0.0513        | 0.0491        | 2,693.5460        |
| Hotel                               | 4.76972        | 0.0514        | 0.4676        | 0.3928        | 2.8100e-003   |               | 0.0355        | 0.0355        |                | 0.0355        | 0.0355        |          | 561.1436          | 561.1436          | 0.0108        | 0.0103        | 564.4782          |
| Quality Restaurant                  | 5.05775        | 0.0545        | 0.4959        | 0.4165        | 2.9800e-003   |               | 0.0377        | 0.0377        |                | 0.0377        | 0.0377        |          | 595.0298          | 595.0298          | 0.0114        | 0.0109        | 598.5658          |
| Regional Shopping Center            | 0.251616       | 2.7100e-003   | 0.0247        | 0.0207        | 1.5000e-004   |               | 1.8700e-003   | 1.8700e-003   |                | 1.8700e-003   | 1.8700e-003   |          | 29.6019           | 29.6019           | 5.7000e-004   | 5.4000e-004   | 29.7778           |
| <b>Total</b>                        |                | <b>0.7660</b> | <b>6.7463</b> | <b>4.2573</b> | <b>0.0418</b> |               | <b>0.5292</b> | <b>0.5292</b> |                | <b>0.5292</b> | <b>0.5292</b> |          | <b>8,355.9832</b> | <b>8,355.9832</b> | <b>0.1602</b> | <b>0.1532</b> | <b>8,405.6387</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**



## Village South Specific Plan (Proposed) - 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   | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |
| Unmitigated | 30.5020 | 15.0496 | 88.4430 | 0.0944 |               | 1.5974       | 1.5974     |                | 1.5974        | 1.5974      | 0.0000   | 18,148.5950 | 18,148.5950 | 0.4874 | 0.3300 | 18,259.1192 |

## 6.2 Area by SubCategory

Unmitigated

|                       | ROG            | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| SubCategory           | lb/day         |                |                |               |               |               |               |                |               |               | lb/day        |                    |                    |               |               |                    |
| Architectural Coating | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

## Village South Specific Plan (Proposed) - 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 | 2.2670         |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Consumer Products     | 24.1085        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                    | 0.0000             |               |               | 0.0000             |
| Hearth                | 1.6500         | 14.1000        | 6.0000         | 0.0900        |               | 1.1400        | 1.1400        |                | 1.1400        | 1.1400        | 0.0000        | 18,000.0000        | 18,000.0000        | 0.3450        | 0.3300        | 18,106.9650        |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-003   |               | 0.4574        | 0.4574        |                | 0.4574        | 0.4574        |               | 148.5950           | 148.5950           | 0.1424        |               | 152.1542           |
| <b>Total</b>          | <b>30.5020</b> | <b>15.0496</b> | <b>88.4430</b> | <b>0.0944</b> |               | <b>1.5974</b> | <b>1.5974</b> |                | <b>1.5974</b> | <b>1.5974</b> | <b>0.0000</b> | <b>18,148.5950</b> | <b>18,148.5950</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.1192</b> |

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

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

**10.0 Stationary Equipment**

## Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

**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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# Attachment C

| Local Hire Provision Net Change                         |            |
|---|------------|
| Without Local Hire Provision                            |            |
| Total Construction GHG Emissions (MT CO2e)              | 3,623      |
| Amortized (MT CO2e/year)                                | 120.77     |
| With Local Hire Provision                               |            |
| Total Construction GHG Emissions (MT CO2e)              | 3,024      |
| Amortized (MT CO2e/year)                                | 100.80     |
| <b>% Decrease in Construction-related GHG Emissions</b> | <b>17%</b> |

## **EXHIBIT B**



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## ***Paul Rosenfeld, Ph.D.***

*Principal Environmental Chemist*

**Chemical Fate and Transport & Air Dispersion Modeling**

**Risk Assessment & Remediation Specialist**

### **Education**

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Thesis on wastewater treatment.

### **Professional Experience**

Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

## **Professional History:**

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner  
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)  
UCLA School of Public Health; 2003 to 2006; Adjunct Professor  
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator  
UCLA Institute of the Environment, 2001-2002; Research Associate  
Komex H<sub>2</sub>O Science, 2001 to 2003; Senior Remediation Scientist  
National Groundwater Association, 2002-2004; Lecturer  
San Diego State University, 1999-2001; Adjunct Professor  
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager  
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager  
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor  
King County, Seattle, 1996 – 1999; Scientist  
James River Corp., Washington, 1995-96; Scientist  
Big Creek Lumber, Davenport, California, 1995; Scientist  
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist  
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

## **Publications:**

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**Rosenfeld, P.E.**, and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash. *Water Science and Technology*. 49(9),171-178.

**Rosenfeld P. E.**, J.J. Clark, I.H. (Mel) Suffet (2004). The Value of An Odor-Quality-Wheel Classification Scheme For The Urban Environment. *Water Environment Federation's Technical Exhibition and Conference (WEFTEC) 2004*. New Orleans, October 2-6, 2004.

**Rosenfeld, P.E.**, and Suffet, I.H. (2004). Understanding Odorants Associated With Compost, Biomass Facilities, and the Land Application of Biosolids. *Water Science and Technology*. 49(9), 193-199.

**Rosenfeld, P.E.**, and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash, *Water Science and Technology*, 49( 9), 171-178.

**Rosenfeld, P. E.**, Grey, M. A., Sellev, P. (2004). Measurement of Biosolids Odor and Odorant Emissions from Windrows, Static Pile and Biofilter. *Water Environment Research*. 76(4), 310-315.

**Rosenfeld, P.E.**, Grey, M and Suffet, M. (2002). Compost Demonstration Project, Sacramento California Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Integrated Waste Management Board Public Affairs Office*, Publications Clearinghouse (MS-6), Sacramento, CA Publication #442-02-008.

**Rosenfeld, P.E.**, and C.L. Henry. (2001). Characterization of odor emissions from three different biosolids. *Water Soil and Air Pollution*. 127(1-4), 173-191.

**Rosenfeld, P.E.**, and Henry C. L., (2000). Wood ash control of odor emissions from biosolids application. *Journal of Environmental Quality*. 29, 1662-1668.

**Rosenfeld, P.E.**, C.L. Henry and D. Bennett. (2001). Wastewater dewatering polymer affect on biosolids odor emissions and microbial activity. *Water Environment Research*. 73(4), 363-367.

**Rosenfeld, P.E.**, and C.L. Henry. (2001). Activated Carbon and Wood Ash Sorption of Wastewater, Compost, and Biosolids Odorants. *Water Environment Research*, 73, 388-393.

**Rosenfeld, P.E.**, and Henry C. L., (2001). High carbon wood ash effect on biosolids microbial activity and odor. *Water Environment Research*. 131(1-4), 247-262.



Chollack, T. and **P. Rosenfeld**. (1998). Compost Amendment Handbook For Landscaping. Prepared for and distributed by the City of Redmond, Washington State.

**Rosenfeld, P. E.** (1992). The Mount Liamuiga Crater Trail. *Heritage Magazine of St. Kitts*, 3(2).

**Rosenfeld, P. E.** (1993). High School Biogas Project to Prevent Deforestation On St. Kitts. *Biomass Users Network*, 7(1).

**Rosenfeld, P. E.** (1998). Characterization, Quantification, and Control of Odor Emissions From Biosolids Application To Forest Soil. Doctoral Thesis. University of Washington College of Forest Resources.

**Rosenfeld, P. E.** (1994). Potential Utilization of Small Diameter Trees on Sierra County Public Land. Masters thesis reprinted by the Sierra County Economic Council. Sierra County, California.

**Rosenfeld, P. E.** (1991). How to Build a Small Rural Anaerobic Digester & Uses Of Biogas In The First And Third World. Bachelors Thesis. University of California.

## **Presentations:**

**Rosenfeld, P.E.**, Sutherland, A; Hesse, R.; Zapata, A. (October 3-6, 2013). Air dispersion modeling of volatile organic emissions from multiple natural gas wells in Decatur, TX. *44th Western Regional Meeting, American Chemical Society*. Lecture conducted from Santa Clara, CA.

Sok, H.L.; Waller, C.C.; Feng, L.; Gonzalez, J.; Sutherland, A.J.; Wisdom-Stack, T.; Sahai, R.K.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Atrazine: A Persistent Pesticide in Urban Drinking Water. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.

Feng, L.; Gonzalez, J.; Sok, H.L.; Sutherland, A.J.; Waller, C.C.; Wisdom-Stack, T.; Sahai, R.K.; La, M.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Bringing Environmental Justice to East St. Louis, Illinois. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.

**Rosenfeld, P.E.** (April 19-23, 2009). Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*, Lecture conducted from Tuscon, AZ.

**Rosenfeld, P.E.** (April 19-23, 2009). Cost to Filter Atrazine Contamination from Drinking Water in the United States” Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*. Lecture conducted from Tuscon, AZ.

Wu, C., Tam, L., Clark, J., **Rosenfeld, P.** (20-22 July, 2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. Brebbia, C.A. and Popov, V., eds., *Air Pollution XVII: Proceedings of the Seventeenth International Conference on Modeling, Monitoring and Management of Air Pollution*. Lecture conducted from Tallinn, Estonia.

**Rosenfeld, P. E.** (October 15-18, 2007). Moss Point Community Exposure To Contaminants From A Releasing Facility. *The 23<sup>rd</sup> Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

**Rosenfeld, P. E.** (October 15-18, 2007). The Repeated Trespass of Tritium-Contaminated Water Into A Surrounding Community Form Repeated Waste Spills From A Nuclear Power Plant. *The 23<sup>rd</sup> Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

**Rosenfeld, P. E.** (October 15-18, 2007). Somerville Community Exposure To Contaminants From Wood Treatment Facility Emissions. The 23<sup>rd</sup> Annual International Conferences on Soils Sediment and Water. Lecture conducted from University of Massachusetts, Amherst MA.

**Rosenfeld P. E.** (March 2007). Production, Chemical Properties, Toxicology, & Treatment Case Studies of 1,2,3-Trichloropropane (TCP). *The Association for Environmental Health and Sciences (AEHS) Annual Meeting*. Lecture conducted from San Diego, CA.

**Rosenfeld P. E.** (March 2007). Blood and Attic Sampling for Dioxin/Furan, PAH, and Metal Exposure in Florala, Alabama. *The AEHS Annual Meeting*. Lecture conducted from San Diego, CA.

Hensley A.R., Scott, A., **Rosenfeld P.E.**, Clark, J.J.J. (August 21 – 25, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006*. Lecture conducted from Radisson SAS Scandinavia Hotel in Oslo Norway.

Hensley A.R., Scott, A., **Rosenfeld P.E.**, Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition*. Lecture conducted from Boston Massachusetts.

**Paul Rosenfeld Ph.D.** (October 24-25, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. Mealey's C8/PFOA. *Science, Risk & Litigation Conference*. Lecture conducted from The Rittenhouse Hotel, Philadelphia, PA.

**Paul Rosenfeld Ph.D.** (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

**Paul Rosenfeld Ph.D.** (September 19, 2005). Fate, Transport, Toxicity, And Persistence of 1,2,3-TCP. *PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel in Irvine, California.

**Paul Rosenfeld Ph.D.** (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference*. Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

**Paul Rosenfeld Ph.D.** (June 7-8, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. *International Society of Environmental Forensics: Focus On Emerging Contaminants*. Lecture conducted from Sheraton Oceanfront Hotel, Virginia Beach, Virginia.

**Paul Rosenfeld Ph.D.** (July 21-22, 2005). Fate Transport, Persistence and Toxicology of PFOA and Related Perfluorochemicals. *2005 National Groundwater Association Ground Water And Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

**Paul Rosenfeld Ph.D.** (July 21-22, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, Toxicology and Remediation. *2005 National Groundwater Association Ground Water and Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

**Paul Rosenfeld, Ph.D.** and James Clark Ph.D. and Rob Hesse R.G. (May 5-6, 2004). Tert-butyl Alcohol Liability and Toxicology, A National Problem and Unquantified Liability. *National Groundwater Association. Environmental Law Conference*. Lecture conducted from Congress Plaza Hotel, Chicago Illinois.

**Paul Rosenfeld, Ph.D.** (March 2004). Perchlorate Toxicology. *Meeting of the American Groundwater Trust*. Lecture conducted from Phoenix Arizona.

Hagemann, M.F., **Paul Rosenfeld, Ph.D.** and Rob Hesse (2004). Perchlorate Contamination of the Colorado River. *Meeting of tribal representatives*. Lecture conducted from Parker, AZ.

**Paul Rosenfeld, Ph.D.** (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

**Rosenfeld, P. E.,** Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

**Paul Rosenfeld, Ph.D.** and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants..* Lecture conducted from Hyatt Regency Phoenix Arizona.

**Paul Rosenfeld, Ph.D.** (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

**Paul Rosenfeld, Ph.D.** (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

**Rosenfeld, P.E.** and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

**Rosenfeld, P.E.** and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

**Rosenfeld, P.E.** and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

**Rosenfeld, P.E.** and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conference*. Lecture conducted from Indianapolis, Maryland.

**Rosenfeld. P.E.** (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation*. Lecture conducted from Anaheim California.

**Rosenfeld. P.E.** (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest*. Lecture conducted from Ocean Shores, California.

**Rosenfeld, P.E.** (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

**Rosenfeld, P.E.,** C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

**Rosenfeld, P.E.,** and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

**Rosenfeld, P.E.,** C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell*. Lecture conducted from Seattle Washington.

**Rosenfeld, P.E.,** C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest*. Lecture conducted from Lake Chelan, Washington.

**Rosenfeld, P.E.,** C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

**Rosenfeld, P.E.,** C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

## **Teaching Experience:**

UCLA Department of Environmental Health (Summer 2003 through 20010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

## **Academic Grants Awarded:**

California Integrated Waste Management Board. \$41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: \$10,000 grant awarded to San Diego State University. Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. \$100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. \$20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: \$10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: \$15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. \$500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

## **Deposition and/or Trial Testimony:**

In the United States District Court For The District of New Jersey

Duarte et al, *Plaintiffs*, vs. United States Metals Refining Company et. al. *Defendant*.

Case No.: 2:17-cv-01624-ES-SCM

Rosenfeld Deposition. 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division

M/T Carla Maersk, *Plaintiffs*, vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS “Conti Perdido”  
*Defendant*.

Case No.: 3:15-CV-00106 consolidated with 3:15-CV-00237

Rosenfeld Deposition. 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica

Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants

Case No.: No. BC615636

Rosenfeld Deposition, 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica

The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants

Case No.: No. BC646857

Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado

Bells et al. Plaintiff vs. The 3M Company et al., Defendants

Case: No 1:16-cv-02531-RBJ

Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112<sup>th</sup> Judicial District

Phillip Bales et al., Plaintiff vs. Dow Agrosiences, LLC, et al., Defendants

Cause No 1923

Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa

Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants

Cause No C12-01481

Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois

Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants

Case No.: No. 0i9-L-2295

Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles

Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC

Case No.: LC102019 (c/w BC582154)

Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division

Brenda J. Cooper, et al., *Plaintiffs*, vs. Meritor Inc., et al., *Defendants*

Case Number: 4:16-cv-52-DMB-JVM

Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish  
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants  
Case No.: No. 13-2-03987-5  
Rosenfeld Deposition, February 2017  
Trial, March 2017

In The Superior Court of the State of California, County of Alameda  
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants  
Case No.: RG14711115  
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County  
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants  
Case No.: LALA002187  
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County  
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants  
Law No.: LALA105144 - Division A  
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County  
Doug Pauls, et al., et al., Plaintiffs vs. Richard Warren, et al., Defendants  
Law No.: LALA105144 - Division A  
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia  
Robert Andrews, et al. v. Antero, et al.  
Civil Action NO. 14-C-30000  
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico  
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward  
DeRuyter, Defendants  
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County  
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant  
Case No 4980  
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17<sup>th</sup> Judicial Circuit, in and For Broward County, Florida  
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.  
Case Number CACE07030358 (26)  
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma  
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City  
Landfill, et al. Defendants.  
Case No. 5:12-cv-01152-C  
Rosenfeld Deposition: July 2014

In the County Court of Dallas County Texas

Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant*.

Case Number cc-11-01650-E

Rosenfeld Deposition: March and September 2013

Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio

John Michael Abicht, et al., *Plaintiffs*, vs. Republic Services, Inc., et al., *Defendants*

Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)

Rosenfeld Deposition: October 2012

In the United States District Court of Southern District of Texas Galveston Division

Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs*, vs. BP Products North America, Inc., *Defendant*.

Case 3:10-cv-00622

Rosenfeld Deposition: February 2012

Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland

Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants

Case Number: 03-C-12-012487 OT

Rosenfeld Deposition: September 2013

## **EXHIBIT C**





Technical Consultation, Data Analysis and  
Litigation Support for the Environment

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Santa Monica, California 90401  
Tel: (949) 887-9013  
Email: [mhagemann@swape.com](mailto:mhagemann@swape.com)

**Matthew F. Hagemann, P.G., C.Hg., QSD, QSP**

**Geologic and Hydrogeologic Characterization  
Industrial Stormwater Compliance  
Investigation and Remediation Strategies  
Litigation Support and Testifying Expert  
CEQA Review**

**Education:**

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.

B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

**Professional Certifications:**

California Professional Geologist

California Certified Hydrogeologist

Qualified SWPPP Developer and Practitioner

**Professional Experience:**

Matt has 25 years of experience in environmental policy, assessment and remediation. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) while also working with permit holders to improve hydrogeologic characterization and water quality monitoring.

Matt has worked closely with U.S. EPA legal counsel and the technical staff of several states in the application and enforcement of RCRA, Safe Drinking Water Act and Clean Water Act regulations. Matt has trained the technical staff in the States of California, Hawaii, Nevada, Arizona and the Territory of Guam in the conduct of investigations, groundwater fundamentals, and sampling techniques.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

**Senior Regulatory and Litigation Support Analyst:**

With SWAPE, Matt’s responsibilities have included:

- Lead analyst and testifying expert in the review of over 100 environmental impact reports since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, Valley Fever, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at industrial facilities.
- Manager of a project to provide technical assistance to a community adjacent to a former Naval shipyard under a grant from the U.S. EPA.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.
- Expert witness on two cases involving MTBE litigation.
- Expert witness and litigation support on the impact of air toxins and hazards at a school.
- Expert witness in litigation at a former plywood plant.

With Komex H2O Science Inc., Matt’s duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.

- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

### **Executive Director:**

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

### **Hydrogeology:**

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

### **Policy:**

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9. Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, *Oxygenates in Water: Critical Information and Research Needs*.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

### **Geology:**

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

### **Teaching:**

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt taught physical geology (lecture and lab and introductory geology at Golden West College in Huntington Beach, California from 2010 to 2014.

### **Invited Testimony, Reports, Papers and Presentations:**

**Hagemann, M.F.**, 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

**Hagemann, M.F.**, 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

**Hagemann, M.F.**, 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Colorado.

**Hagemann, M.F.**, 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

**Hagemann, M.F.**, 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

**Hagemann, M.F.**, 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

**Hagemann, M.F.**, 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

**Hagemann, M.F.**, 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

**Hagemann, M.F.**, 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal representatives, Parker, AZ.

**Hagemann, M.F.**, 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

**Hagemann, M.F.**, 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

**Hagemann, M.F.**, 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

**Hagemann, M.F.**, 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

**Hagemann, M.F.**, 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

**Hagemann, M.F.**, 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

**Hagemann, M.F.**, 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

**Hagemann, M.F.**, 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

**Hagemann, M.F.**, 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

**Hagemann, M.F.**, 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

**Hagemann, M.F.**, 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

**Hagemann, M.F.**, and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F.** 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

**Hagemann, M.F.**, 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

**Hagemann, M.F.**, 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

**Hagemann, M.F.**, and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

**Hagemann, M.F.**, Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

**Hagemann, M. F.**, Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

**Hagemann, M.F.**, 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

**Hagemann, M.F.** and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

**Hagemann, M.F.**, 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.



**Hagemann, M.F.**, 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

**Other Experience:**

Selected as subject matter expert for the California Professional Geologist licensing examination, 2009-2011.