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# **Appendix A1**

## NOP and Comment Letters



Mayor  
John W. Minto  
City Council  
Ronn Hall  
Laura Koval  
Rob McNelis  
Dustin Trotter

**NOTICE OF PREPARATION  
of a Draft Environmental Impact Report and  
Notice of Public Scoping Meeting**

**Project:** Carlton Oaks Country Club and Resort Project  
**Project Case Files:** TM 2019-1, P2019-6, DR 2019-5, AEIS 2019-7  
**Project Proponent:** Carlton Oaks Golf Resort and Lennar Homes  
**Project Address:** 9200 Inwood Drive, Santee, California, 92071  
**Project Site Assessor Parcel Numbers (APN):** APNs 383-060-26, 383-071-06, -09, -10, 383-080  
03, -04, 383-221-01, -02, 03, -04, 383-241-08  
and 383-242-01

**Environmental Impact Report**

The City of Santee ("City") is preparing an Environmental Impact Report ("EIR") for the Carlton Oaks Country Club and Resort project ("Proposed Project") located on a 165-acre site in the Planned Development ("PD"), Park/Open Space ("P/OS"), and Low-Medium Density Residential ("R2") zones. The City will be the lead agency, in accordance with the California Environmental Quality Act ("CEQA"), for the proposed project.

As specified in the CEQA Guidelines, this NOP will be circulated for a 30-day scoping period. Agencies, organizations, and interested members of the public are invited to provide input on the scope of the environmental analysis. If you are a responsible or trustee agency, the views of your agency are requested on the scope and content of the environmental information germane to your agency's statutory responsibilities in connection with the proposed project. If no response or well-justified request for additional time is received by any responsible agency or trustee agency by the end of the review period, the City will presume that these agencies have no response.

The NOP comment period begins on **June 7, 2024** and closes at **5:00 p.m.** on **July 8, 2024**. Comments concerning the scope of the EIR must be submitted in writing prior to the close of the review period to:

Christina Rios, Senior Planner  
Planning & Building Department  
10601 Magnolia Avenue, Santee, CA 92071  
crios@cityofsanteeca.gov  
(619) 258-4100 ext. 157

In your written comment, please indicate a contact person along with their contact information. The City will consider all written comments received during the noticed public scoping period in the preparation of the EIR.

## Public Scoping Meeting

The City will hold a public scoping meeting to provide an opportunity for agency staff and interested members of the public to submit written comments on the scope of the environmental issues analyzed in the EIR. The public scoping meeting will be held on **June 25, 2024** from **5:00pm to 6:30PM**, at the **Santee City Council Chambers**, located at **Santee City Hall, 10601 Magnolia Avenue**. All parties are welcome to attend and are encouraged to ask questions or provide suggestions about the proposed project and environmental analysis.

## Proposed Project Location and Adjacent Land Uses

The proposed project site is located within the boundaries of the existing Carlton Oaks Country Club, located in both the City of Santee and the City of San Diego (Figure 1). The project site encompasses twelve APNs. The existing uses on the project site are the Carlton Oaks Golf Course and Country Club, including a clubhouse with restaurant/bar, pro shop, 52-key hotel and tournament hall.

The land uses surrounding the project location include residential uses to the north, open space and residential uses to the east, open space/riverbed and the State Route (SR)-52 right-of-way to the south, and the rights-of-way of SR-52 and West Hills Parkway to the west. Other surrounding land uses generally consist of residential, commercial, and public facilities.

Approximately 100.3 acres of the project location are within the City of Santee, and approximately 64.6 acres are within the City of San Diego, for a total site of approximately 165 acres. Additionally, approximately 3.4 acres consist of areas outside of the project site that will be developed with improvements associated with the project and are located either in the City of San Diego or City of Santee (off-site improvement areas). The off-site improvement areas and the proposed project site make up the CEQA Study Area (Figure 2). In the City of San Diego, land uses would include a 64-acre portion of the redesigned golf course; access to the proposed Residential West (PA-1) subdivision from West Hills Parkway, including relinquished abutters access rights and revestment of access rights; and the widening and restriping of West Hills Parkway. The remaining project components, including most of the redesigned golf course, clubhouse and hotel (PA-3), Residential West, and Residential North (PA-2) are within the City of Santee.

## Project Description

### *Golf Course Redesign*

The existing 145-acre, 18-hole golf course would be redesigned to a 104-acre, 18-hole golf course with a reduced length from approximately 7,300 yards to 6,450 yards (Figure 2). The new course design would have a 50 percent reduction in turf irrigation and would utilize a new modern irrigation system. The existing ponds on the golf course would be reshaped, and the existing drainage patterns would be improved. Out-of-play areas around the golf course would be planted with native grasses and smaller shrubs native to the region. The maintenance facility in the eastern portion of the project site would remain in its current location.

### *Carlton Oaks Country Club and Resort*

The Carlton Oaks Country Club and Resort would consist of approximately 51,926 square feet of golf related resort amenities including 10 cottage-style hotel units, 42-room hotel, a clubhouse with a restaurant, event space, a golf learning center, a cart barn, a pro shop, and a store all located in the eastern portion of the project site (Figure 2). There would also be a golf cart waiting area and a shared, surface parking lot. The hotel and cottage buildings would be constructed as two-story



structures. The clubhouse and resort would also provide an outdoor pool and deck area, a patio, and a courtyard.

### *Residential Development*

The Carlton Oaks Country Club and Resort would include a residential component in the western and northeastern portions of the project site. Residential West, in the western portion of the project site, would consist of 86 multi-family detached residential units. Residential North would be located in the northern portion of the project site and would consist of 150 detached multi-family residential units (Figure 2). In addition, six single-family lots would front Carlton Oaks Drive and allow for single-story homes on a minimum 6,000 square-foot lots. One existing home located at 9225 Inwood Drive has also been included within the project area to allow for minor driveway modifications but no changes to the structure are proposed. The applicant is requesting approval of required easements from the City of San Diego for grading, landscaping, utilities, access, and maintenance.

### *Access*

Access to Residential West would be from a private driveway off the eastern side of West Hills Parkway, which would be widened and restriped. Two private internal streets would provide access to the homes. The private driveway would require access easements across vacant, previously disturbed lands owned by the City of San Diego (Public Utilities Department).

Access to Residential North and the resort would be from Carlton Oaks Drive at the intersection of Burning Tree Way. Internal streets and a roundabout would provide access to homes and to the resort facilities. A private utility maintenance road would be provided between Residential North and Residential West. Access to the golf course and resort would be provided by a private drive through Residential North from Carlton Oaks Drive southerly via a new bridge across the San Diego River (North Channel).

A 26-foot-wide private emergency access road would be provided through the existing Vista del Verde condominiums located in the northeastern corner of the project site (Figure 2). This emergency access would be for the proposed project only and would not be open to the public. A new fence with an emergency access gate will also be erected between buildings of the existing adjacent condominium complexes. A private emergency access road would be provided in the northern corner of Residential West from West Hills Parkway.

### *Proposed Trail Segments*

Multipurpose, public trail segments will be provided on the project site that will link with existing and planned trails to the east and west of the site. In the western portion of the site, the trail segment will be constructed beginning at the Santee jurisdictional line ending at the property line (Station 38+60 as shown on Figure 2) and link to the future planned trail known as the Carlton Oaks Golf Course Segment. A graded bench (located within the Carlton Oaks Golf Course Segment) would also be provided within the easement areas that will be granted to the applicant by the City of San Diego as a part of this project. In the eastern portion of the site, an onsite trail segment will traverse through the resort to Carlton Oaks Drive and will extend the offsite Mast Park West Trail (east of the project boundary to the south to the property line), as well as link to the future planned trail known as the Carlton Oaks Golf Course Segment.

In addition to the proposed trail alignment currently proposed through Residential North and the County Club and Resort Area, a supplemental trail offer of dedication is shown on the applicant's

map should the City request this supplemental trail alignment. The supplemental trail offer of dedication starts from an area east of the Country Club and Resort parking lot to the property line of the Vista del Verde community. If the City were to request this supplemental segment, the applicant will agree to dedicate the trail alignment and construct this trail at a later date if the city determines that it desires to build this trail in the future.

### *100-Year Floodway Improvements*

The project site is located within the regulatory limits of the San Diego River (floodplain and floodway) and receives runoff from Sycamore Canyon Creek (Santee Lakes) channel, the San Diego River (North Channel), several storm drain outfalls from the existing developments along Carlton Oaks Drive and Mast Boulevard roadway corridors, and runoff from Forester Creek.

The proposed grading for the clubhouse, hotel, and golf course would occur within the regulatory floodway. The proposed development would require elevating the grade of the proposed clubhouse and hotel above the floodplain. In addition, a small portion of the Residential North development encroaches into the existing floodplain. A Conditional Letter of Map Revision (CLOMR) and Letter of Map Revision (LOMR) would be processed through the Federal Emergency Management Agency (FEMA) to revise the flood mapping associated with the proposed alteration of the floodway.

*Offsite Improvements (Additional APNs 383-221-05, -08, 383-223-02, 383-330-39, 383-381-22, 383-425-10, 383-431-01, 383-480-04, -44, -47, -48, -51)*

1. Emergency Vehicle Access: The project will include the construction of a 26-foot-wide emergency vehicle access roadway, from the Vista del Verde community south onto the golf course property to the developed portion of the resort. One parking spot on the Vista del Verde property may be removed but will be relocated within that property. The project also includes installation of a motorized gate and replacement of the existing chain link fence with a steel tubular fence, on the boundary of the Golf Course property.
2. West Hills Parkway: West Hills Parkway will be widened within the existing right-of-way from Carlton Oaks Drive approximately 700 feet southerly to the existing bridge, to provide a dedicated left-turn lane into Residential West. New striping will include a striped median and increased width for bike lanes. This work would be located within the City of San Diego's jurisdiction, and therefore would follow their standards.
3. Extension of a Padre Dam Municipal Water District (PDMWD) public water main: A PDMWD water main would be extended from Carlton Oaks Drive south along West Hills Parkway and into Residential West to provide a connection to the proposed private water system.
4. Access to Residential North and the Resort Area: Access to these areas would be provided by Carlton Oaks Drive at the intersection of Burning Tree Way. This access point is approximately 200 feet east of the existing hotel access road (Inwood Drive). Inwood Drive will be closed and replaced with curb and sidewalk. Additionally, several existing driveway aprons along the project frontage will be closed and replaced with curb and landscaping along with other miscellaneous frontage improvements such as overhead power undergrounding and landscaping. Overhead power undergrounding would extend north of Carlton Oaks Drive. Potable and recycled water would be connected to existing main lines in Carlton Oaks Drive and extended into the project.
5. Drainage Improvements: Existing drainage pipes discharge to the golf course at five locations along the north subdivision boundary. All improvements will be constructed in a manner that will maintain the existing flow and drainage patterns.

- a) *An existing 42-inch storm drain discharges to the site from a headwall located approximately 15 feet offsite, within a public easement (City of Santee) on an existing residential lot (Lot 17 of Map 4402).* The offsite flows will be picked up onsite by proposed storm drain improvements and discharged into the San Diego River (North Channel).
  - b) *An existing 27-inch storm drain extends onto the project site from an existing residential lot (Lot 14 of Map 5417).* This pipe will be extended under the proposed access road to a new headwall and discharge onto the golf course.
  - c) *An existing 18-inch storm drain discharges to the site from a headwall located approximately 15 feet offsite, located within a public easement (City of Santee) on an existing residential lot (Lot 230 of Map 6973).* The offsite flows will be picked up onsite by proposed storm drain improvements and discharged onto the golf course.
  - d) *An existing 47"x71" storm drain discharges to the site from a headwall located approximately 20 feet offsite, located within a public easement (City of Santee) on an existing residential lot (Lot 239 of Map 6973).* The offsite flows will be picked up onsite by proposed storm drain improvements and discharged onto the golf course.
  - e) *An existing 72-inch diameter storm drainpipe discharges to the site from the headwall located approximately immediately offsite at the north property line of Residential West.* The existing headwall includes a large concrete energy dissipator and concrete channel. These storm drain facilities are located offsite on existing residential lots (Lots 679 & 680 of Map 7295) and within an existing public easement (City of Santee). The offsite flows will be picked up onsite by proposed storm drain improvements and discharged onto the golf course.
6. Sewer Maintenance Hole Improvements: There are three, existing sewer maintenance holes located offsite within a PDMWD easement within the Vista del Verde condominium property. The need for engineered sewer maintenance hole liners will be determined in the project design phase. All work will be limited to within the public easement area.

## **Requested Entitlements**

The following discretionary actions would be required by the City of Santee:

- Certification of the EIR, adoption of Findings of Fact, adoption of a Mitigation Monitoring and Reporting Program, and adoption of the Statement of Overriding Considerations, if applicable
- Approval of the Tentative Map
- Approval of the Development Review Permit
- Approval of the Conditional Use Permit
- Issuance of ministerial construction permits (building, grading, etc.)

The following discretionary actions would be required by the City of San Diego:

- Issuance of a Site Development Permit
- Issuance of ministerial permits (including grading permits, etc.)
- Approval of required easements

The following discretionary actions would be required by other agencies:

- The U.S. Army Corps of Engineers would require Clean Water Act Section 404 authorization (Nationwide Permits 29, 39, and 42).

- The U.S. Fish and Wildlife Service would require a City of San Diego Permit (with conformance to Environmentally Sensitive Lands regulations) for impacts in the City of San Diego and/or Section 7 Incidental Take Permit for Endangered Species Compliance.
- The Federal Emergency Management Agency would require a Conditional Letter of Map Revision and Letter of Map Revision.
- The California Regional Water Quality Control Board would require a Clean Water Act Section 401 Water Quality Certification.
- The California Department of Fish and Wildlife would require a Fish and Game Code Section 1602 Streambed Alteration Agreement and Incidental Take Permit under Section 2081.
- The State Water Resources Control Board would require a National Pollutant Discharge Elimination System General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit).
- Federal Aviation Administration would require a project determination and approval for construction equipment and operational structures.

### **Project Alternatives**

The EIR will evaluate a reasonable range of project alternatives, including the required No Project Alternative.

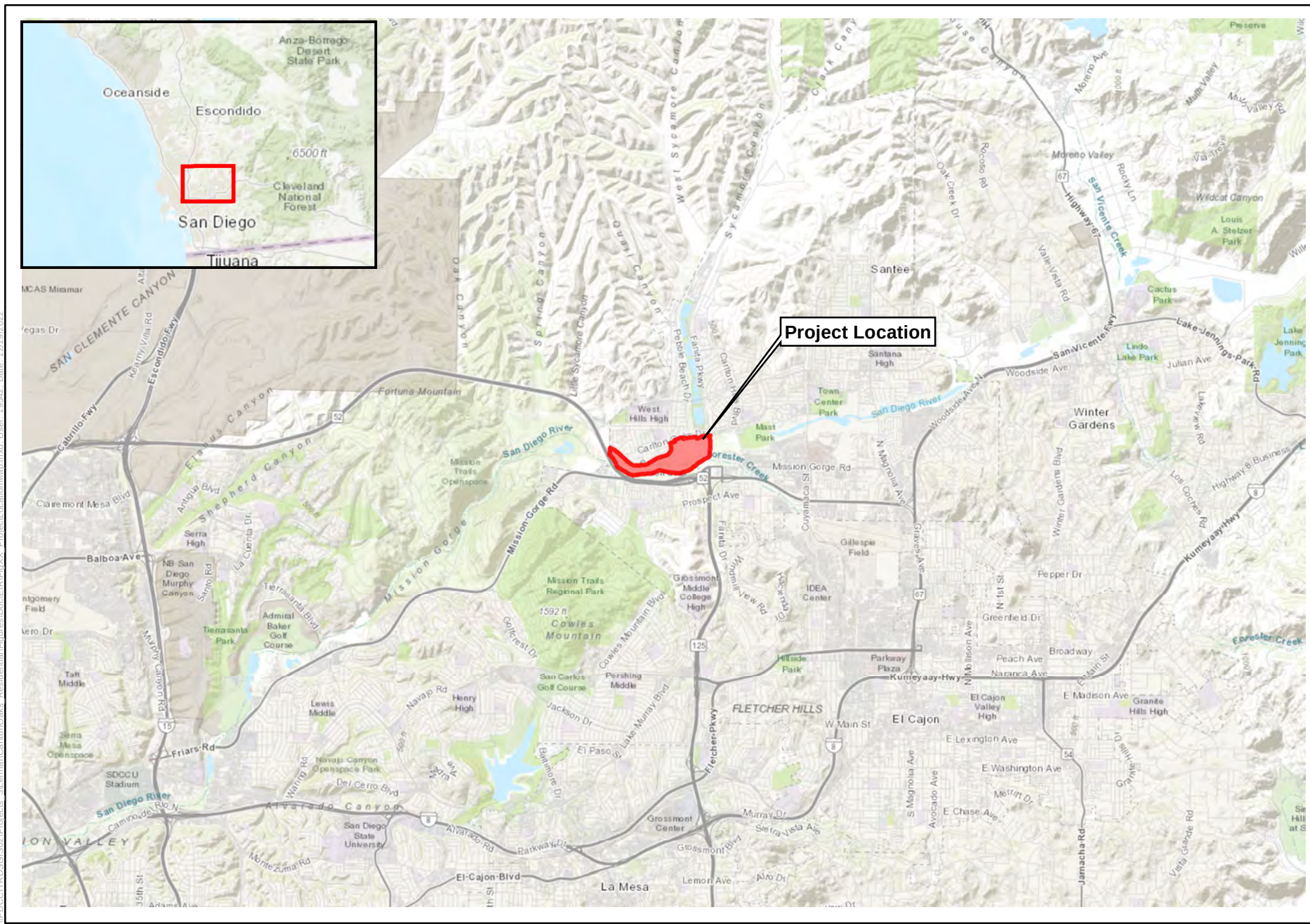
### **Potential Environmental Effect Areas**

The Draft EIR will describe the reasonably foreseeable and potentially significant adverse effects of the proposed project (both direct and indirect). The Draft EIR will also evaluate the cumulative impacts of the project when considered in conjunction with other related past, present, and reasonably foreseeable future projects. The EIR will evaluate the following environmental topic areas, and mitigation measures would be identified as necessary to reduce potentially significant effects.

- |                                   |                             |
|-----------------------------------|-----------------------------|
| • Aesthetics and Visual Resources | • Land Use and Planning     |
| • Air Quality                     | • Mineral Resources         |
| • Biological Resources            | • Noise and Vibration       |
| • Cultural Resources              | • Population and Housing    |
| • Energy                          | • Public Services           |
| • Geologic Hazards and Soils      | • Recreation                |
| • Greenhouse Gas Emissions        | • Transportation/Traffic    |
| • Hazards and Hazardous Materials | • Tribal Cultural Resources |
| • Hydrology and Water Quality     | • Utilities/Service Systems |
|                                   | • Wildfire                  |

As environmental documentation for this project is completed, it will be available for review at the Planning & Building Department located in Building 4 at Santee City Hall, 10601 Magnolia Avenue, Santee CA 92071, and online at: [cityofsanteeca.gov](http://cityofsanteeca.gov).



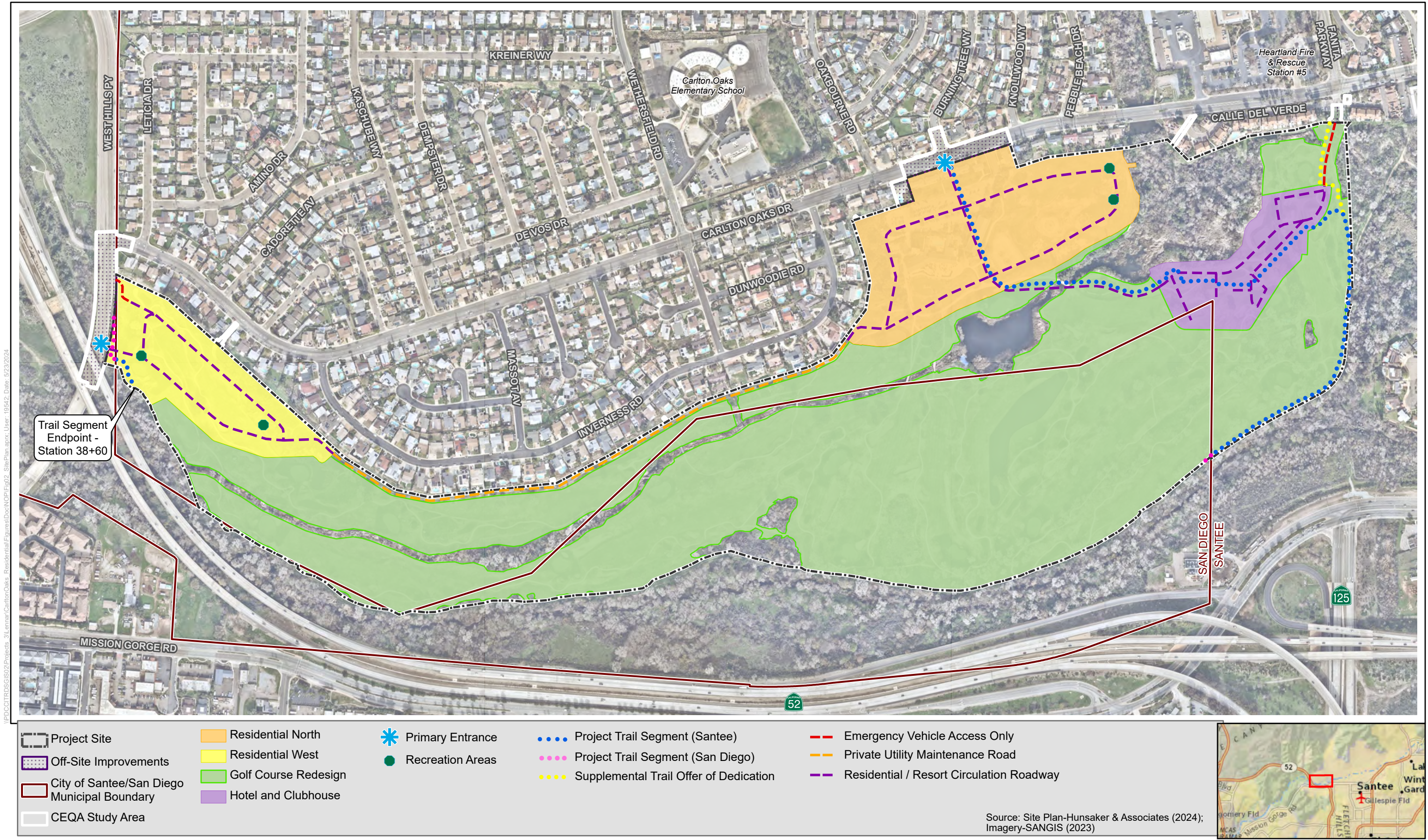


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Miles  
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**Figure 1**  
**Project Location Map**  
**Carlton Oaks Country Club and Resort**







**Figure 2**

**Site Plan and Off-Site Improvements**

**Carlton Oaks Country Club and Resort**







**From:** [Tylke, Melanie](#)  
**To:** [Christina Rios](#)  
**Subject:** Carlton Oaks - website information  
**Date:** Friday, June 21, 2024 12:00:44 PM  
**Attachments:** [image001.png](#)

---

Hi Christina – DGS received the hardcopy NOP for this project. Can you please direct me to where the project information is located at on your website. I tried multiple searches and did not see the NOP or related documents come up in electronic format. The new website does not appear to have an environmental review tab, as it has been update.

Thank you,



**Melanie Tylke, AICP, LEED AP ND**

*(she/her/hers)*

Environmental Project Manager

**Phone** 619.616.9326 **Email**

[melanie.tylke@sdcounty.ca.gov](mailto:melanie.tylke@sdcounty.ca.gov)

**From:** [Tylke, Melanie](#)  
**To:** [Christina Rios](#)  
**Subject:** Carlton Oaks - website information  
**Date:** Friday, June 21, 2024 12:00:44 PM  
**Attachments:** [image001.png](#)

---

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Thank you,



**Melanie Tylke, AICP, LEED AP ND**

*(she/her/hers)*

Environmental Project Manager

**Phone** 619.616.9326 **Email**

[melanie.tylke@sdcounty.ca.gov](mailto:melanie.tylke@sdcounty.ca.gov)

**From:** [4all\\_nei](#)  
**To:** [Christina Rios](#)  
**Subject:** RE: Scoping Meeting  
**Date:** Monday, June 24, 2024 4:03:25 PM  
**Attachments:** [image001.png](#)

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Thank you for this information, Christina. Here are my questions:

1) Will there be a locked/secured gate at the west end of the emergency vehicle access road; will pedestrians be able to access it when locked?

Will this road allow access from residents' properties on either side (e.g., someone climbing in between the pipe fencing)?

Who maintains/repairs it?

2) Will the realigned sidewalk (corner of Carlton Oaks & W. Hills Pkwy) be fenced near existing property lines? If so, what will be the height of that fencing?

3) Are there plans for a retaining wall to be built along W. Hills Pkwy to prevent fill/built-up soil from sliding down onto residents' property when that area is realigned/new sidewalk built heading south along the proposed newly graded section?

Thank you, Christina. Hoping these will be answered tomorrow night!

Alexandria Lowry  
619-250-3210

Sent from my Sprint Samsung Galaxy S10.

----- Original message -----

From: Christina Rios <Crios@CityofSanteeCa.gov>  
Date: 6/20/24 5:28 PM (GMT-08:00)  
To: 'Alexandria' <4all\_nei@cox.net>  
Subject: Scoping Meeting

Hi Alexandria,

You may send me written comments / questions which will be included with the Notice of Preparation (NOP) as an appendix in the Draft Environmental Impact Report (EIR) and considered as the draft EIR is prepared.

You can also provide additional written comments or ask questions of the applicant at the scoping meeting which will be held on June 25<sup>th</sup> at the Santee City Council Chambers, 10601 Magnolia Avenue, Santee CA 92071 at 5:00 p.m.

As a reminder, the public comment period ends on July 8, 2024.



*Christina Ríos*

Senior Planner

Planning & Building Department

(619) 258-4100 x157



**From:** [buncelaw@aol.com](mailto:buncelaw@aol.com)  
**To:** [Christina Rios](#)  
**Subject:** Comments of Barona Band of Mission Indians on NOP for Carlton Oaks Country Club and Resort Project  
**Date:** Monday, June 24, 2024 1:21:49 PM

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Dear friends,

The Barona Band of Mission Indians is a federally-recognized Indian tribe with its federal Indian reservation north of Lakeside, south of Ramona. I serve as Tribal Attorney under the direction of the Chairman and Tribal Council. I am now responding to the above NOP on behalf of the Barona Band.

From prior experience with a major cultural resources site also within Santee, the Barona Band knows that the site of this project has much potential for similar cultural resources, even though it is partly disturbed. Therefore, when you have the EIR prepared, be sure to include a section on cultural resources that includes the results of a cultural resources assessment performed by a qualified archaeologist under applicable CEQA and other local law. And please provide me with a copy of the full EIR with any cultural resources appendices.

Thank you for your anticipated cooperation.

Sincerely,

Art Bunce  
Tribal Attorney

**From:** [Doug Anderson](#)  
**To:** [Christina Rios](#)  
**Subject:** COGC Scoping Comment  
**Date:** Friday, June 7, 2024 7:43:02 PM

---

Thanks for the feedback.

**From:** [MIKE ALLEN](#)  
**To:** [Christina Rios](#)  
**Subject:** Total units on proposed golf course development  
**Date:** Wednesday, June 12, 2024 11:33:47 AM

---

Hi Christina,

What is the total number of residential units proposed for Carlton Oaks Golf Course project? I count 242. That's 150 detached single families in one area, and 86 SFH in another area, plus 6 larger SFH.

Also, that new resort complex includes 10 cottages and 42 hotel rooms, correct?

What happened to the senior living complex?

Who is the owner of Carlton Oaks Golf Resort?

What is the proposed timeline for this project?

In addition to city of Santee, seven other agencies must sign off on this, correct?

Thanks,  
Mike Allen  
EastCountyMagazine  
619 -40-3407



**From:** [Richard Vega](#)  
**To:** [Christina Rios](#)  
**Cc:** [Patrick Vega](#); [John R Vega](#)  
**Subject:** June 25 2024 EIR Meeting for the Carlton Oaks Country Club and Resort Project  
**Date:** Monday, June 24, 2024 1:36:32 PM

---

Hello Ms. Rios,

I would like to know if tomorrow evening's June 25 2024 EIR Meeting for the Carlton Oaks Country Club and Resort Project will be available for interested parties to attend via a Zoom or other remote connections. Can you please advise me of those possibilities. Other parties I know are interested in but unable to attend in person. I hope to hear from you and or your office by today or tomorrow.

Thank you very much for your time.

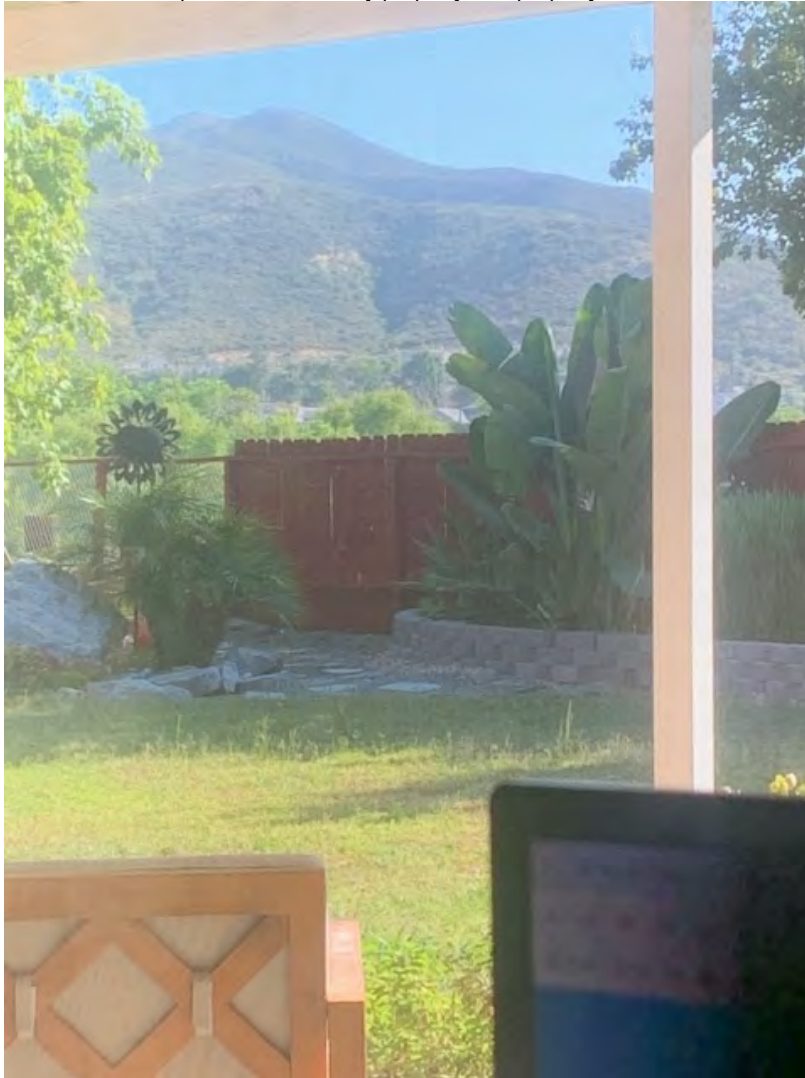
Richard Vega  
Cell: 626-354-1427

**From:** [eidcpa](#)  
**Sent:** Thursday, June 20, 2024 5:17 PM  
**To:** Christina Rios  
**Subject:** There's a picture of today as I'm working at my desk at 5:15 PM

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Hi Christina, I just wanted to send you a couple pictures of what it looks like from my desk dining room and backyard. I'll put a formal reply together shortly.. The last picture is the view from my desk

If indeed they have to raise the ground to a 317 base flood elevation, and then build two stories I will lose this view which will impair the value of my property, this property is sold as a view lot. Thank you.













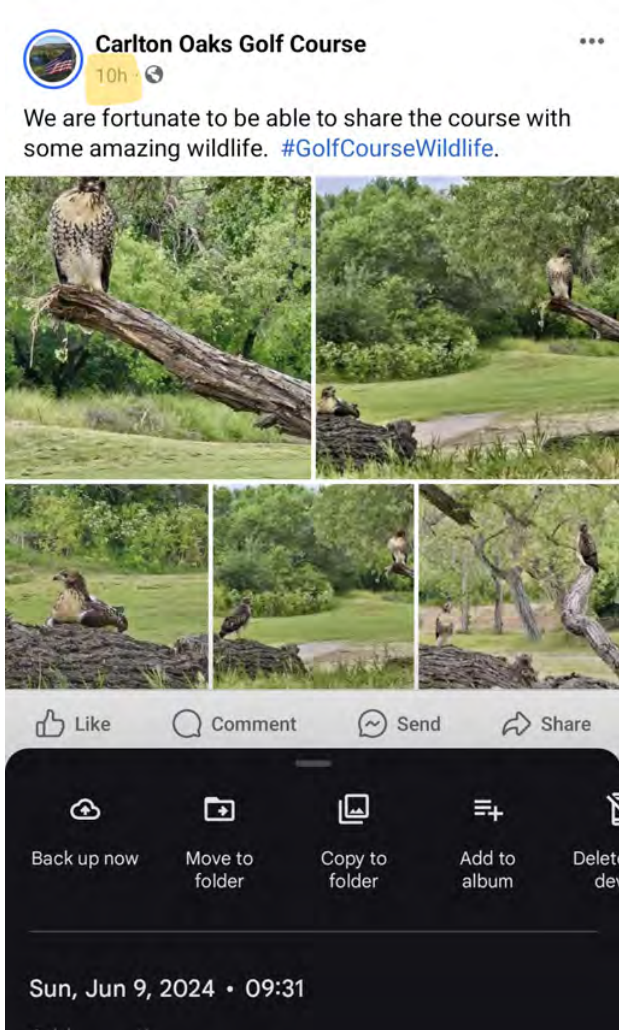
**From:** [JC](#)  
**Sent:** Monday, June 10, 2024 10:49 AM  
**To:** Chris na Rios  
**Subject:** COGC Scoping Comment

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Good morning,

I was disheartened to learn that Lennar and the City are still trying to develop Carlton Oaks. There's a lot going on over there, and it would be tragic to lose the freshwater marshlands as well as all of the wildlife that lives there. Not to mention the amount of flooding that happens on this land.

The country club itself loves seeing the native wildlife, as shown in their facebook post from June 8th.



Jennifer C  
Santee Resident

**From:** [joel.cherry](#)  
**To:** [Christina.Rios](#)  
**Subject:** COGC Scoping Comment  
**Date:** Friday, June 14, 2024 8:32:34 PM

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Just to make all involved aware I still have all the documentation used to stop any development there the last two times and will be using it this time around as well. Feel free to contact me if you have any questions. Joel Cherry 619-985-6885

Sent from my Verizon, Samsung Galaxy smartphone  
Get [Outlook for Android](#)

**From:** [Karen Penn](#)  
**To:** [Christina Rios](#)  
**Subject:** Environmental Impact meeting Jun 25  
**Date:** Wednesday, June 19, 2024 8:43:58 AM

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Dear Ms. Rios,

I am writing to express my concerns regarding the Environmental Impact Study of the Carlton Oaks Golf Resort and Lennar Homes project, and the actions planned to address them.

1. Could you please clarify which types of emergency vehicles will be authorized to use the emergency access?
2. What is the projected frequency of emergency vehicle use for this access?
3. Initially projected as a 20-foot road, it is now listed as 26 feet. Can you confirm this adjustment? Also, can you please confirm why?
4. The expansion to 26 feet will result in the loss of multiple parking spaces. How will this issue be mitigated, considering all 12 guest spaces are frequently occupied?
5. Given that this area is the largest grassy space in the complex, how will resident safety be ensured when emergency vehicles need access and people are present?
6. How will noise levels from vehicles, including emergency vehicles, and pedestrian traffic be managed to minimize disruption to residents?
7. The walkway through Vista del Verde near the access presents safety concerns as a thoroughfare for residents. What measures will be taken to address these risks?
8. The area behind Vista del Verde is habitat for the protected Least Bell's Vireo bird. How will the project ensure the safety and preservation of this natural wildlife habitat?

I look forward to meeting with you at the upcoming meeting on June 25 and hearing your insights and responses to these critical issues.

Sincerely,

Karen Penn



**From:** [lhollis481@gmail.com](mailto:lhollis481@gmail.com)  
**To:** [Christina Rios](#)  
**Subject:** NOP comment  
**Date:** Wednesday, June 12, 2024 1:34:55 PM

---

Hello Christina,

I have reviewed the notice of preparation of the Carlton Oaks Country Club project. My main concern is regarding the very busy and dangerous intersection on Carlton Oaks Dr. and Leticia Dr.

As a homeowner on Whispering Leaves Lane, I have had many close calls at the intersection of Carlton Oaks and Leticia.

Exiting from West Hills Parkway onto Carlton Oaks, there is an extremely short turn lane onto Leticia. I always hold my breath when turning left here because there is a high risk of being rear ended. The other issue is turning right or left from Leticia onto Carlton Oaks. Traffic oftentimes forms into two illegal lanes which makes this a very dangerous intersection.

As this is already a problem area, I worry what will happen when additional homes are built in this area. Is there anything in the plans to make this a safer intersection? Please review past accident reports, there have been many. I believe there was a fatal accident last year.

Regards,  
Lori Hollis  
9328 Whispering Leaves Lane  
Santee, CA 92071  
619-405-7264  
[Lhollis481@gmail.com](mailto:Lhollis481@gmail.com)

**From:** [mjoclark](#)  
**To:** [Christina Rios](#)  
**Subject:** COGC Scoping Comment  
**Date:** Saturday, June 8, 2024 3:12:04 PM

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*am writing to comment on the proposed Golf course project in Santee. There are several factors that lead me to oppose this project. For a variety of reasons, the projected development is not a good idea. They include*

- 1. this is a flood plan. Several times in the 40 years I have lived here, the area has flooded due to heavy rains, at times to the point where the golf course was flooded to half the height of the trees. I do not believe it is safe to build in this area.*
- 2. In addition, the area is home to a variety of wildlife, including some endangered species.*
- 2. The project includes minimal to no plans to improve the community infra- structure, particularly roads and fire protection. In the event of a major flood along the river or a wild fire coming down from Cowles mountain or up from Mission Trails, egress from the area would be severely compromised, leading to potential loss of life.*
- 3. Emergency response services for health crises would also be impacted, particularly given the plans for senior housing which would increase the demand on services to meet the needs of older citizens without any provision for enhancing the availability of those services..*
- 4. The projected building would also decrease the property value of homes for those of us who currently live adjacent to the golf course. I seriously doubt that property taxes would be reduced commensurately.*

*I hope you will give serious attention to these concerns held by myself and many other Santee residents.*

*Sincerely,*

*Mary Jo Clark, Santee resident*

June 20, 2024

RECEIVED

JUN 20 2024 

Christina Rios, Senior Planner  
Planning & Building Department  
10601 Magnolia Avenue, Santee, CA 92071  
[crios@cityofsantee.ca.gov](mailto:crios@cityofsantee.ca.gov)  
(619) 258-4100 ext.157

Dept. of Development Services  
City of Santee

Attn: Christina Rios

Re: Carlton Oaks Country Club and Resort Project  
9200 Inwood Drive, Santee, CA 92071

This is in response to your letter that was mailed to our homes in Santee.

1. When we purchased our home at 8351 Carlton Oaks Drive in 1998, we paid more for our property located on the golf course side, south of Carlton Oaks Drive, because of the view and having no neighbors behind us. Privacy was one of the selling points of buying our house. In recent years, many houses have been built on the west end of Santee. The building plans now show even more houses are to be added on the golf course behind our house. Your building plans for these new homes show our view is going to be blocked by even more homes. Why should our view be destroyed because the developer wants to add more housing in Santee? Has anyone checked the CCR's (Covenants, Conditions and Restrictions) for the Carlton Oaks subdivision?
2. Are these going to be two story homes? Are they going to be able to look onto our patio/pool when we are outside, because they are going to be built right behind our property?
3. Why can't these homes be built on the Mission Gorge Road side of the golf course, where there are "no" homes currently to block "their" view from the golf course? Was this even under consideration?
3. Traffic on West Hills Parkway, Mast Boulevard and Carlton Oaks Drive getting on Highway 52 is horrific in the mornings going to work, leaving Santee, etc. (especially when children are in school). Coming home is just as bad. (There are only two lanes of traffic going east and west here on the west side of Santee on Highway 52 which adds to the congestion). The new "large" housing development on Mast Boulevard across

from West Hills High School has already contributed to the traffic nightmare here in Santee. What are the plans for alleviating this traffic congestion?

4. Downtown Santee traffic is a disaster to get to and from local stores, especially on the weekends. How can our city handle even more and more homes, cars, etc?

5. Downtown Santee currently has numerous cars running the red lights causing accidents due to the long lines waiting to get through these intersections. There have been many accidents and close calls caused by this constant congestion. How can our city handle more and more cars from more and more homes?

6. In an emergency, how are our roads going to handle everyone exiting at the same time? On the west side of Santee, we only have West Hills Parkway to the west, with everyone trying to get on Highway 52? Mission Gorge Road? Or if that is blocked, what route are we to take? Has that even been given any consideration?

Unfortunately, we don't believe any of these issues have been thought about or even taken into consideration how we are to handle the additional homes, cars, people, etc. in our city. Each and every day our city has become more and more congested, with a most important issue, what are we supposed to do in an emergency?

We sincerely hope your Environmental Impact Report (EIR) will take all of these concerns into consideration.

Regards,

Handwritten signatures of Ray and Vicki Bryan. The signature for Ray is on the left and for Vicki is on the right, both in cursive script.

Ray and Vicki Bryan  
8351 Carlton Oaks Drive  
Santee, CA 92071  
[rbvbknd@pacbell.net](mailto:rbvbknd@pacbell.net)  
619-562-1833 (home)  
619-518-5708 (Vicki-Cell)  
619-610-8457 (Ray-Cell)

**Scott Farrell**

8539 Dunwoodie Rd  
Santee, CA 92071  
619.742.2315  
Scott@chivalrytoday.com

**RECEIVED**

**JUN 20 2024**

Dept. of Development Services  
City of Santee

June 15, 2024

**Christina Rios**

Senior Planner, Santee Planning & Building Dept  
10601 Magnolia Ave  
Santee, CA 92071

Greetings,

We have received the Notice of Preparation for the Carlton Oaks Country Club and Resort Project. After reading the proposal carefully, I would like to express our opposition to the proposed project.

We do not feel Santee will benefit from the addition of 200+ more housing units and the associated residents. Traffic and congestion are already bad enough, particularly during high-traffic "rush hour" periods. We do not feel the proposal appropriately addresses the facilities and logistics necessary for the sort of growth that will result from the proposed building project.

We feel Santee's funds and efforts would be much better put to use on:

- More Multi Use Trails and separated bicycle lanes, allowing for safer recreational bicycle activity city wide (e.g., we would love to see a clear, dedicated bicycle route from Mission Trails Park to the Walker Preserve Trailhead that does not necessitate crossing Cuyamaca or Magnolia);
- Support for theatre and the arts in Santee, such as a public "summer theatre festival" at Santee Town Center's amphitheater, or the performing arts center at West Hills High;
- More green space areas and hiking trails throughout the city;
- Programs that provide assistance and rehabilitation for the homeless, that would result in the homeless camps being cleared from the San Diego River bed between Cuyamaca and Carlton Hills, and along the southern edge of the Town Center sportsplex.

We appreciate the desire for growth in Santee, but we do not support the proposal to build more housing within the boundaries of Carlton

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Oaks Golf Course, as outlined by the Carlton Oaks Country Club and Resort Project proposal.

Thank you for taking our views and feedback into consideration.

**Scott Farrell**

**April Apperson-Farrell**

**Loreen Mattis**



**From:** [Andy D](#)  
**To:** [Christina Rios](#)  
**Cc:** [outreach@carltonoaksinfo.com](mailto:outreach@carltonoaksinfo.com)  
**Subject:** Supporting the Carlton Oaks Country Club and Resort Project  
**Date:** Friday, June 21, 2024 4:05:25 PM

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Hello Planning Committee,

I strongly support the proposal for Carlton Oaks Country Club. Santee is growing. Golf is growing. We have an opportunity to have one of the nicest golf courses for many miles. Carlton Oaks has a ton of potential but desperately needs rejuvenation.

Thank you!

Andy

**From:** [Michelle Dressler](#)  
**To:** [Christina Rios](#)  
**Cc:** [Carlton Oaks Community Outreach](#)  
**Subject:** I support the Carlton Oaks Country Club and Resort Project  
**Date:** Friday, June 21, 2024 4:23:15 PM

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Hello Project Planning Committee,

My name is Michelle Dressler and I am writing in support of the Carlton Oaks Country Club and Resort Project.

As a resident of Santee and a member of the Santee Park and Recreation Committee (SPARC), I find the project to be a fiscally pragmatic way to address housing needs in the community while preserving a large green space in an urban environment.

I look forward to public trails, reduced standing water during heavy rains, the planting of more native plants, and reduced irrigation costs.

The initial seed money from housing development and recurring revenue from the patronage of dedicated golfers is a smart way to maintain environmental and public health benefits for the community without increasing burden on taxpayers.

Best,  
Michelle

**From:** [Renee W](#)  
**To:** [Christina Rios](#)  
**Subject:** COGC Scoping Comment  
**Date:** Saturday, June 8, 2024 7:09:04 AM

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I think the modest amount of homes and the hotel providing a regular income stream for the golf course is a wise plan. A river trail connecting Mast Park to Mission Trails would be brilliant and truly appreciated by many. Thank you for inviting me to comment.

Sincerely,

Renee Woodward  
Santee Resident

**From:** [Rob Chichester](#)  
**To:** [Christina Rios](#)  
**Subject:** COGC Scoping Comment  
**Date:** Saturday, June 8, 2024 11:09:01 AM

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I fully support this project. It strikes the right balance between keeping a local golf course, providing reasonable upgrades to the facility, and protecting the San Diego riverbed.

Rob Chichester

**From:** [Ron Snyder](#)  
**To:** [Christina Rios](#)  
**Subject:** COGC Scoping Comment  
**Date:** Saturday, June 8, 2024 3:12:53 PM

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To Whom It May Concern,

I strongly support the Carlton Oaks Project... I was elated years ago when I first heard about the proposed project/development!

The City of Santee and it's infrastructure has been a contribution to those living in surrounding communities... I have family & friends who live in La Mesa, Alpine, & San Diego who regularly visit our city to shop and support our local economy!!!

The east county desperately needs a 'class act' development as currently planned!!

I will be proud to suggest to visiting family and friends to stay @ Carlton Oaks when they are in town to visit!!

And, how wonderful it would be if we could enjoy a nice, casual meal at a beautiful venue in our own backyard!!!

Thank you, Ron Snyder

Sent from my iPhone

**From:** [Tim Barry](#)  
**To:** [Christina Rios](#); [outreach@carltonoaksinfo.com](mailto:outreach@carltonoaksinfo.com)  
**Subject:** Carlton Oaks Development Project  
**Date:** Tuesday, June 25, 2024 9:12:13 AM

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To the City of Santee

My name is Tim Barry and I am a 50+ year resident of Santee/Lakeside and I would like to address my support for the development of the Carlton Oaks golf course property. I am currently a Government/Economics teacher (28 yrs) and the Boys Golf Coach at Santana HS.

Growing up in Santee, the Golf course has always been a means of community and camaraderie. Many of us learned to golf at the Oaks and developed life long friendships through it. As we grew older, it hosted many of our life events like weddings + receptions, class reunions, retirements, celebrations of life, etc.

I would like to see an upgrade in facilities and course quality as our city grows. The course does an amazing job giving back to the community, especially to the 2 High Schools that have many future residents attending them. Quite a few of our players got their 1st jobs working for the country club. This is an opportunity for our city to move in a positive direction and I see nothing but benefit to us who call this our home.

If you want any further feedback please feel free to contact me at my school number (619) 956 - 0321 or Cell # (619) 559 - 0982.

Thank you for your time and consideration

**Tim Barry**  
**Santana High School**  
**AP Government/Economics Teacher**  
**Boys Golf Head Coach**  
**(619) 956 - 0321 or [tbarry@guhsd.net](mailto:tbarry@guhsd.net)**

"Success comes from knowing that you did your best to become the best that you are capable of becoming".  
John Wooden



**From:** [Gowens Ed](#)  
**To:** [Christina Rios](#)  
**Cc:** [Redman Ralph](#); [Hollarn Garret](#); [Noyce Sidney](#)  
**Subject:** Carlton Oaks Country Club and Resort NOP of EIR  
**Date:** Tuesday, June 25, 2024 9:35:05 AM

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Hi, Christina,

As the Airport Land Use Commission (ALUC) for San Diego County, the San Diego County Regional Airport Authority (SDCRAA) appreciates being included in the Notice of Preparation (NOP) of an Environmental Impact Report (EIR) for the Carlton Oaks Country Club and Resort project.

ALUC staff review of the project site indicates that it is entirely located outside the noise contours and safety zones of the Gillespie Field Airport Land Use Compatibility Plan (ALUCP), and, therefore, no determination of consistency with the ALUCP is required from SDCRAA as the ALUC.

However, please be aware that the proposed new structures of the project—hotel, cottage units, clubhouse, detached single- and multi-unit residences—would be located within the Airport Influence Area (AIA) of the ALUCP and potentially be subject to project sponsor notice to and review by the Federal Aviation Administration (FAA) if their height and location attributes meet criteria for FAA notice. Please consult the FAA website “Notice Criteria Tool” for further information and filing requirements: <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>.

Additionally, the project site is located within the overflight notification area of the ALUCP, which requires a form of notice of airport proximity and aircraft overflight be given to each new residential unit. Compliance with the California state real estate disclosure law in property transactions will satisfy that overflight notification requirement.

Thanks again for including SDCRAA in the notice of this project NOP EIR.

Regards,

*Ed Gowens*

Senior Airport Planner

Airport Land Use Commission

San Diego County Regional Airport Authority ➔

Post Office Box 82776

San Diego, California 92138-2776

voice (619) 400-2244

All correspondence with this email address is a matter of public record subject to third party review.

Is it worth a tree to print me? 

**From:** [Josh Rose](#)  
**To:** [Christina Rios](#); [eidcpa](#); [Romy Rose](#)  
**Subject:** Request for Inclusion of Wetland Protection, Endangered Species, and Environmental Considerations in EIR  
**Date:** Wednesday, June 26, 2024 10:41:21 AM

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Dear Christina Rios,

I hope this email finds you well. As a concerned resident and homeowner in Santee, I am writing to request that the upcoming Environmental Impact Report (EIR) for the proposed subdivision near our community adequately addresses critical environmental factors. Specifically, I urge the City of Santee to consider the following aspects:

**1. Wetland Protection:**

- The proposed development site includes wetlands that play a vital role in maintaining ecological balance, supporting biodiversity, and mitigating flooding.
- I request that the EIR thoroughly assess the impact of the development on wetlands, ensuring compliance with federal and state regulations, including the Clean Water Act (CWA) and California Coastal Act (CCA).

**2. Historical Significance and Open Recreation Space:**

- The golf course has a long-standing history as open recreation space, contributing to the community's well-being.
- I encourage the EIR to recognize the cultural and historical value of this space and consider its preservation.

**3. Floodplain Risk:**

- The proposed buildings lie within the 100-year floodplain, posing risks to both the development and existing properties.
- The EIR should thoroughly evaluate flood risk and propose mitigation measures.

**4. Endangered and Sensitive Species:**

- The golf course area may harbor endangered or sensitive species. The EIR must assess potential impacts on these species and propose protective measures.
- Consider engaging local wildlife experts and conducting thorough surveys to identify any species at risk.

**5. Community Engagement:**

- I believe that community input is crucial during the EIR process. Please ensure that residents have an opportunity to voice their concerns and provide feedback.

I appreciate your attention to these matters and trust that the City of Santee will prioritize environmental protection and community well-being. If you require any additional information or clarification, please feel free to reach out to me.

Thank you for your commitment to responsible development and environmental stewardship.

Sincerely,

**Josh Rose, P.E., MBA, PMP**

[M] 619-317-6403

**From:** [Rachel Summers](#)  
**To:** [Christina Rios](#)  
**Subject:** Carlton Oaks - EIR Comments  
**Date:** Thursday, June 27, 2024 3:04:16 PM

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Good afternoon,

Please find the following comments in response to various topics regarding the Carlton Oaks Project;

Is the City of San Diego already in preparation for this project since they are also involved? There has already been a lot of dirt / soil movement happening on the driving range, is there a way to view those plans?

Flood Issues - Specifically Building up Land - How high will the land be raised? How will the impact of building up the land be studied? What is the action plan for the path of the typical amount of flood water that is pooled in the area(s) to prevent it from running into the homes that exist now? What type of clay/soil/ is underlying and will it uphold the added build up and rain water since it is a river bed?

Wild Life in Riverbed - Sycamore Creek (next to our home) Will the Coyote Dens be relocated? When our daughter went 6th grade camp, they actually showed the children the travel patterns of some of the wild life and how they make their way from the Cuyamaca mountains all the way to the Ocean, we actually found out that Mountain Lions actually follow this portion of the San Diego Riverbed quite frequently as well. Raises concern when bringing in more homes/children/people. Will the large trees be studied for Eagle nests before being taken down? We have been very fortunate to not have any issues with our pets or children while living here and have enjoyed listening and watching through the window at times the various animals play, fly, travel, etc across the driving range - can't help but wonder where they will go and how they will be affected.

The perimeter of the project - are there minutes from the meeting or was it recorded perhaps that I can listen to? (came in a few minutes late - was there an in depth discussion about this section) Will the portions of the trail that are Santee and San Diego just start and stop since some say will be gifted to the City later? There was reference of the fencing, is this a privacy fence? Are there samples that can be shown? Is the existing chain link fences and high nets being taken down? If so, at what part of the project - perhaps I missed that part of the presentation - I did not see any posters or literature with reference to that on or near the tables. With the grounds being raised, will the trail also be as well, so the people on the trails will be looking down into the existing home's backyards? Are there any plans for privacy?

Traffic - Studies of traffic were mentioned. Would like to see that this is conducted when school is in session and during the week days between the hours of 7-9 am and again 3-6. Carlton Oaks, Mast, West Hills Parkway and Mission Gorge. Carlton Oaks, having many side streets that a lot of people will drive down as an attempt to avoid the long line of traffic, this will cause even more on the Residential side streets as well as longer wait times on Oaks. There are times were we have to sit and wait to exit or pull in for quite some time due to how heavy the traffic can be on Carlton Oaks as it is now. On West Hills Parkway during peak traffic times, waiting during several cycles of lights before being able to go and in the plans, there is a proposed turn lane into the housing with no light proposes even longer wait times

and a hazard (may want to consider adding a keep clear painted section in the street)

Contact Information - putting both of us, but Rachel as the primary contact due to availability to respond timely

John and Rachel Summers 8929 Carlton Oaks Drive - [rsummers.premierdesigns@gmail.com](mailto:rsummers.premierdesigns@gmail.com)  
or [john.m.summers35@gmail.com](mailto:john.m.summers35@gmail.com) - 619-203-1028 or 504-4083

Thank you and I may follow up with more comments while the window remains open if I think of anything else, or if I have some of my comments/questions answered in the meantime, since this was my first City Hall meeting attending an EIR Scope Session.

Please let me know if I missed anything or if further clarification is required on something.

--

Rachel Summers

**From:** [eidcpa@aol.com](mailto:eidcpa@aol.com)  
**To:** [Christina Rios](#)  
**Cc:** [Sandi Sawa](#); [Marlene Best](#)  
**Subject:** Response to Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) - Project Carlton Oaks Country Club and Resort Project  
**Date:** Friday, June 28, 2024 6:17:45 PM  
**Attachments:** [Response to NOP Draft EIR Carlton Oaks Country Club and Resort SD River.pdf](#)  
[A3 Active Flood Photo of Marsh Area Residential West Site.pdf](#)  
[A2 Satellite View Wetlands Carlton Oaks West- Google Maps.pdf](#)  
[A1 SANDAG Map Marsh Wetlands Residential West.pdf](#)

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Dear Christine,

I hope this message finds you well. I am writing to provide my response to the Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) for Project Carlton Oaks Country Club and Resort Project. I appreciate the opportunity to participate in this process and to contribute to the environmental review of this significant project.

Apologies for sending it on a Friday evening, I've been working on it all week long and finally wrapped it up a few minutes ago.

Firstly, we commend the thoroughness and transparency demonstrated in the NOP, outlining the scope and objectives of the EIR. It is evident that considerable effort has been made to identify potential environmental impacts associated with the project.

Having reviewed the NOP document, I would like to submit comments and suggestions for consideration during the preparation of the Draft EIR. The response to the NOP is attached to this e-mail, I will also drop off a hard copy at the City offices next week for your review.

Please let us know how myself and neighbors can further contribute to the EIR process or if there are specific meetings or consultations where our input would be valuable. We are committed to collaborating constructively to achieve a thorough and balanced assessment of environmental impacts associated with the proposed project.

Thank you for your attention to these comments. We look forward to continuing our engagement in this important process.

Best regards,  
Eid Fakhouri

June 28, 2024

Eid Fakhouri  
9007 Inverness Rd  
Santee, CA 92071

Christina Rios, Senior Planner  
Planning & Building Department, City of Santee  
10601 Magnolia Avenue  
Santee, CA 92071

Re: Response to Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) - Project Carlton Oaks Country Club and Resort Project

Dear Christina Rios, City of Santee, CEQA Compliance Unit

As directed by the Notice of Preparation (NOP) of a Draft EIR for the project referenced above, I am responding to you with my comments and concerns to be addressed in the scope of the Draft EIR. I am 24-year resident of Santee and my home is adjacent to and overlooks the San Diego River Valley, City of San Diego Golf Lease and Sycamore Creek in what is labeled "Residential West" housing site of the proposed project area. I am particularly concerned about the area near and including APN 383-071-09 referred to as "Residential West" on the western portion of the project site because it is **proposing a massive elimination of wetlands, riparian habitat and the floodplain in order to build 86 multi-family detached residential units in one of the most bio-diverse regions of San Diego County which is adjacent to the City of San Diego East Elliot Planning area**. This valley has been documented in numerous studies and reports issued by numerous governmental and environmental organizations as a rich, vibrant and critical geological and natural resource.

#### Overview

**First of all, the housing scope of this project far outweighs and is the primary impact to the land area, the title is somewhat mis-leading and redirects the public to assume the project is primarily for a golf clubhouse and hotel, it is clearly intended to be a massive housing project in wetlands and riparian habitat.**

The scope of the proposed 236 housing unit project is located in wetlands, floodplain and redirects the San Diego River flow and Sycamore Creek while impacting the Mission Trails Park located downriver. Furthermore, the Residential West housing will negatively impact the quality of life of the existing view lot homeowners including myself. Therefore, it is critical that the scope of the draft EIR specify how this project will meet all of the requirements of the City of Santee's General Plan, Federal and State laws and regulations in addition to the City of San Diego and SANDAG.

#### **Maps Indicating Water Flow, Floodplain, Riparian Habitat and Freshwater Marsh (FWM) within Residential West Project Site location:**

- **Historical Ariel Maps;** Google, ESRI (ArcGIS), San Diego Geographic Information Source (SanGIS) and Historical Ariels by Net Online. **(Attachments A1 and A2).**



- **SANDAG** – *“San Diego River Trail: Carlton Oaks Segment, Alternative Study – Final Report 2015, Page 5, Figure 3 (Vegetation) on file with SANDAG).*
- **San Diego County Assessor's Parcel Map:** The APN 383-071-09 and the related topographical, development and historical lot maps related to the Fanita Rancho Tract going back as far as 1894 and 1915 maintained by the San Diego County Assessor's Office indicates the presence of freshwater flow from the north into the San Diego River Valley and Sycamore Creek where it forms a marsh (FWM) within the property boundaries of the proposed project (Book 383, Page 7, Sheet 242-1761 and 1915 Map 790 certified by US Deputy Surveyor in 1894.
- **San Diego County GIS Mapping System:** The County's Geographic Information System (GIS) mapping tools, available on their website, show the designation of a freshwater marsh (FWM) directly behind my home and adjacent properties. This project area, labeled as Residential West is currently designated as **EPA Basin Plan Listed RARE**.

**The term "EPA Basin Plan Listed RARE" typically refers to a designation under the Environmental Protection Agency (EPA)'s Basin Plan for water quality management.** Here's a breakdown of what it generally signifies:

1. **EPA:** Stands for the Environmental Protection Agency, the federal agency responsible for protecting human health and the environment.
2. **Basin Plan:** Refers to a comprehensive water quality control plan developed under the Clean Water Act (CWA). Basin Plans are specific to geographic regions (often river basins or watersheds) and are developed by state or regional water quality control boards, with oversight from the EPA.
3. **Listed:** Indicates that a particular water body or water quality parameter has been formally recognized and documented within the Basin Plan.
4. **RARE:** Likely stands for "Rivers and Estuaries" within the context of the EPA's Basin Plan. This designation may apply to rivers, estuaries, or other water bodies that are considered ecologically significant or rare within the region covered by the Basin Plan.

Therefore, "EPA Basin Plan Listed RARE" would typically mean that a specific river, estuary, or other aquatic feature has been formally recognized and documented within the **EPA-approved Basin Plan as being ecologically rare or significant**. This designation could trigger specific protections or management measures aimed at preserving the ecological integrity and water quality of these special areas.

For precise understanding and context, it's advisable to refer to the specific Basin Plan document or contact the relevant EPA or state/regional water quality control board for more detailed information about what "RARE" specifically denotes in the local context.

**Scope Request of Draft EIR:** Therefore, the draft EIR must include a comprehensive and in-depth understanding by the EPA of the proposed destruction of this wetland and the EPA's official response to the project.

I understand from the "Residential West" project site, that 86 2-story residential units are proposed to be built directly behind the **existing view lots** located on Carlton Oaks Dr and Inverness Rd in an **active alluvial floodplain of both the San Diego River and Sycamore Creek** noted by FEMA maps and documented by neighborhood videos uploaded to <https://www.facebook.com/NoCarltonOaksGolfCourseHousing/>.

I moved to this specific view lot in 2004 so that we would enjoy the views of the hills, river valley and wetlands. The specific "Residential West" project site, **directly behind my home at 9007 Inverness is a**

**wetlands area that pre-existed 1958** (Initial Golf Course Development) as noted by historical ariel photographs and development maps on file with the County of San Diego and the US Geological Survey Maps.

This area is currently a mature and vibrant **Fresh Water Marsh** with numerous critical species of plants, insects, butterflies, amphibians, turtles, mammals, song birds, water birds and raptors.

The wetlands area (Riparian and Marsh) can be viewed using google maps and is the result of **3 water sources**; Underground Water Table, Annual Flooding of the San Diego River (**Attachment A3**), Sycamore Creek and a consistent waterflow and localized run-off from the West Hills of Santee that in later years was directed from surface outfall to a dissipator between lots 679 and 680 on Carlton Oaks dr (T.M. No 3019-7, County of San Diego) approved in 1972 and final as-built dated 03-06-1975.

I will attempt to summarize elements of the project that should undergo a comprehensive impact analysis with all Federal, State, County, Water and Municipal Jurisdictions (City of San Diego and City of Santee) as they pertain to the Residential West housing elements of the project.

**My concerns for a healthy and vibrant river valley prompted me to spend many hours researching the project site. It is clear and quite obvious that based on all studies previously done in the adjacent and project areas, this project plan should be provided to all City of San Diego, State of CA and Federal Agencies to ensure that draft EIR should include all agencies responses and address each of the 6 groupings below:**

- **Destruction of Wetlands and Riparian Habitat:**
  - **Biological Survey and Wetlands Protection Concerns regarding identifying and mapping species and habitat**
  - **Filling in a Floodplain**
  - **Redirecting the Flow of the San Diego River and Sycamore Creek**
  - **Impacts to Mission Trails Park**
  - **City of Santee General Plan Scope Issues and Compliance**
- 

In scoping the Draft EIR, I request that a comprehensive and thorough review include and require the Draft EIR and Final EIR to adequately address the following concerns including alternative plans and possible abandonment of the proposal due to the inability to properly and legally mitigate these concerns.

1. **Destruction of Wetlands and Riparian Habitat:** The proposed project indicates impacts to wetlands, riparian habitat and the filling in and elimination of a **fresh water marsh** within the project area. Pursuant to the City of Santee General Plan, Land Use Element 8.2 Carlton Oaks Golf Course, item 5 “Development should respect the river environment, including **protection of the riparian habitat and protected species.**”

**Located in the project Riparian wetlands, directly behind my home is a Fresh Water Marsh** that extends from the dissipator on Carlton Oaks dr, to the homes on Inverness Rd ending in a grove of cotton wood trees and Riparian Woodlands (See Attachment A2). This area is many acres in size and provides critical and riparian habitat to a diverse population of plants, amphibians, mammals and birds and has been recognized by SANDAG, Costal Conservancy and the San Diego River Conservancy. (See **“San Diego River Trail: Carlton Oaks Segment, Alternative Study – Final Report 2015, Page 5, Figure 3 (Vegetation), Biological Technical Report for the San Diego River Trail (June 2017) on file with SANDAG.**

Dominant plants within Freshwater Marsh include rushes, cattails, bulrushes (or tules), cotton wood, several species of small willows and many other plants and trees typical of a riparian and marsh area. There is open water in ponds and natural underground water. This Freshwater Marsh is home and visited by a number of animal species that we have personally observed in and around the marsh such as: salamanders, toads, Pacific Tree Frogs, turtles, Yellowthroat Warbler, White Herons, Great Herons, Redwing Blackbirds, Tricolored Blackbird, hummingbirds, various ducks and songbirds, Goldfinch, Bushtit, Least Bell's Vireo, various woodpeckers, doves, bluebirds, Peregrine Falcon, Red Tail Hawk, Red Shouldered Hawk, various owls, migrating Robins, juvenile Golden Eagle, California Quail and so many other birds. Additionally, there are dragon flies, butterflies, caterpillars, moths and many other insects. In regards to mammals, we have observed foxes, coyotes, racoons, mule deer, opossums, squirrels, rabbits, rodents including what appeared to be a Kangaroo Rat. Alligator Lizards, whiptail lizards, blue-belly lizards, gopher snakes that have been observed. Neighbors have heard and seen a perched Least Bell's Vireo singing from the marsh and adjacent shrubs. Due to the wetlands, this area is full of song birds in the morning and brings the neighborhood great joy.

#### Scope Request for Draft EIR:

- a. The Draft EIR should indicate a project alternative of how the proposed "Residential West" site can be set aside to mitigate the loss of other lands, or it must state how the loss of this vital, rare and critical wetland habitat is mitigated.
- b. How will the Draft EIR specifically analyze the bio-diversity of this unique site separate from the other project sites to ensure an adequate study is comprehensive and complete?

The **U.S. Army Corps of Engineers definition of wetland is used in most California basin planning and regulation and for 401 water quality certifications.** The California Coastal Commission uses its own more specific definition for coastal wetlands:

"Land where the water table is at, near, or above the land surface long enough to promote the formation of hydric soils or to support the growth of hydrophytes, and shall also include types of wetlands where vegetation is lacking and soil is poorly developed or absent as a result of frequent drastic fluctuations of surface water levels, wave action, water flow, turbidity or high concentration of salts or other substances in the substrate. Such wetlands can be recognized by the presence of surface water or saturated substrate at some time during each year and their location within, or adjacent to vegetated wetland or deepwater habitats."

The **Keene-Nejedly California Wetlands Preservation Act** defines wetlands similarly:

"Lands which may be covered periodically or permanently with shallow water and which include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, fens and vernal pools."

Wetlands play a critical role in supporting biodiversity, water quality, and flood control. Destruction or alteration of wetlands can have long-lasting and detrimental effects on local ecosystems.

The proposed project indicates potential impacts to wetlands within the project area. Wetlands are protected under several regulatory frameworks, including the **Clean Water Act (33 U.S.C. § 1251 et seq.)**, **Section 404 permitting requirements administered by the U.S. Army Corps of Engineers**, and

California state regulations under the Porter-Cologne Water Quality Control Act (Water Code § 13000 et seq.).

**Scope Request for Draft EIR: SANDAG's Regional Comprehensive Plan and Environmental Mitigation Program** emphasize the importance of preserving wetlands for their ecological benefits and water quality improvements. The Draft EIR must thoroughly assess these impacts, propose avoidance measures where feasible, and outline mitigation strategies consistent with SANDAG's guidelines and regulatory requirements.

**Scope Request for Draft EIR:** How will the Draft EIR ensure that the project complies with these laws that mandate avoidance of impacts to wetlands where feasible and require compensatory mitigation for unavoidable impacts? **The Draft EIR must provide a detailed analysis of potential wetlands impacts, including avoidance measures and mitigation strategies consistent with these laws.**

**Project Concern:** The proposed project indicates potential impacts to wetlands within the project area, which are protected under the **City of San Diego's Local Coastal Program (San Diego Municipal Code, Chapter 5, Article 2) and the California Coastal Act (Public Resources Code § 30000 et seq.).**

**Scope Request for Draft EIR:** The Draft EIR must include a thorough analysis of potential impacts on wetlands, propose measures to avoid impacts where feasible, and identify mitigation strategies in accordance with the City's regulations and Coastal Act requirements.

**Scope Request for Draft EIR:** In 1993, the State of CA issued Executive Order W-59-93, how does the project ensure compliance with the EO which requires that projects ensure "no overall net loss of wetlands."? The Project proposes to build in the wetlands, how many acres are in Residential West and when, how and where will the land mitigation be located?

**Scope Request for Draft EIR:** The Draft EIR should document the acreage count of all land in the floodplain to be proposed for housing development and supporting infrastructure (roads) by an independent surveyor

## **2. Biological Survey and Wetlands Protection Concerns regarding identifying and mapping species and habitat.**

The Fresh Water Marsh and Riparian habitat in the Residential West project area is home to dozens of various species of plants and animals, all of which have different breeding, seeding, feeding seasons. Some are nocturnal and others are active during the day. Some are abundant during rainy season, others during the drier seasons.

**Scope Request for Draft EIR:** With this diversity, how will the biological survey be conducted to ensure it is comprehensive and includes all flora and fauna through a full annual life cycle?

**Proximity to Mission Trails Park and the San Diego River Concerns.** Due to the critical wetlands habitat, the scope of the Draft EIR should be consistent with the best practices

**Scope Request for Draft EIR:** It is highly recommended that field surveys be performed when the majority of critical resources can be best evaluated. Some survey times are mandated per protocol established by state and federal agencies for certain species (e.g. Quino checkerspot butterfly).

**These focused survey protocols are consistent with the current regulations of the U.S. Fish & Wildlife Service (USFWS) and the California Department of Fish & Game (CDFG).**

**Scope Request for Draft EIR:** The Draft EIR shall include information on the presence or absence of Narrow Endemic Species likely to be present. If not present, a statement explaining the theoretical physical/biological basis for the lack of expected species shall be included. Conditions of MSCP coverage shall be addressed for covered species.

*The mapping of vegetation should be based on the R.F. Holland system of natural communities as described in Preliminary Descriptions of the Terrestrial Natural Communities of California, California Department of Fish and Game, Non-Game Heritage Program, Sacramento, 1986 [and as modified for San Diego County (SANDAG 1992).]*

*The Draft EIR should adequately address **the California Endangered Species Act (Sections 2050 to 2085) California Fish and Game Code (CFGC) Summary CESA mandates that state agencies not approve a project that would jeopardize the continued existence of species if reasonable and prudent alternatives are available that would avoid a jeopardy finding.***

CESA also prohibits the take of any fish, wildlife, or plant species listed as endangered or threatened, or designated as candidates for listing, under CESA. Similar to the federal ESA, CESA contains a procedure for CDFG to issue an incidental take permit authorizing the take of listed and candidate species incidental to an otherwise lawful activity, subject to specified conditions. Sections 3511, 4700, 5050, 5515 (Fully Protected Species): **The CFGC designates 37 fully protected species and prohibits the take or possession at any time of such species**, with certain limited exceptions. Sections 3503 and 3503.5 (Nesting Bird Protections): Sections 3503 and 3503.5 of the CFGC states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, including raptors, except as otherwise provided by code or any regulation made pursuant thereto. Section 1600 et seq. (Lake and Streambed Alteration): Section 1600 et seq. of the CFGC requires notifying the CDFG prior to any project activity undertaken in or near a river, stream, or lake that flows at least intermittently through a bed or channel.

*The Draft EIR should adequately address **the California Native Plant Protection Act (NPPA)** that requires all state agencies to use Protection Act their authority to carry out programs to conserve endangered and rare native (Sections 1900 to 1913) plants. The NPPA gives the CDFG the power to designate native plants as “endangered” or “rare” and prohibits the take of such plants, with certain exceptions.*

Porter-Cologne Water Section 13260(a) of the Porter-Cologne Water Quality Control Act (contained in the Quality Control Act California Water Code) requires any person discharging waste or proposing to discharge waste, other than to a community sewer system, within any region that could affect the quality of the waters of the state to file a Report of Waste Discharge (ROWD). ***The SWRCB is responsible for the implementation of the act, they should respond to the Draft EIR.***

***FEDERAL RESPONSES TO THE DRAFT EIR should address these items pertinent to the wetlands and fresh water marsh located in the project site notably, “Residential West” since this area is currently a floodplain.***

**Federal Endangered Species Act of 1973 (42.U.S.C. 4321 et seq.)** The federal ESA and subsequent amendments provide guidance for conserving federally listed species and the ecosystems upon which they depend. Section 9 (Prohibited Acts): Section 9 of the federal ESA and its implementing regulations prohibit the “take” of any fish or wildlife species listed under the federal ESA as endangered or threatened, unless otherwise authorized by federal regulations. “Take” includes the destruction of a listed species’ habitat. Section 9 also prohibits a number of specified activities with respect to endangered and threatened plants. Section 7 (Interagency Consultation and Biological Assessments): Section 7 of the federal ESA requires federal agencies to consult with **the U.S. Fish and Wildlife Service (USFWS) or the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS), as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered fish, wildlife, or plant species or result in the destruction or adverse modification of designated critical habitat for any such species.** Section 10 (Permitting and Conservation Plans): Section 10 of the federal ESA provides a process by which nonfederal entities may obtain an Incidental Take Permit from the USFWS or NMFS for otherwise lawful activities that might incidentally result in “take” of endangered or threatened species, subject to specific conditions.

**Magnuson-Stevens Fishery Conservation and Management Act (U.S.C. Section 1801 et seq.)** The amended Magnuson-Stevens Fishery Conservation and Management Act, also known as the Sustainable Fisheries Act (Public Law 104-297), requires that all federal agencies consult with NMFS on activities or proposed activities authorized, funded, or undertaken by that agency that may adversely affect EFH of commercially managed marine and anadromous fish species (i.e. Rainbow/Steelhead Trout).

**Clean Water Act:** The CWA serves as the primary federal law protecting the quality of the nation’s surface waters, including wetlands. Section 401: Under the CWA Section 401, applicants for a federal license or permit to conduct activities that may result in the discharge of a pollutant into waters of the U.S. must obtain certification from the state in which the discharge would originate or from the interstate water pollution control agency with jurisdiction over affected waters. Section 402: Under the CWA Section 402, all point source discharges, including but not limited to construction-related stormwater discharges to surface waters, are regulated through the National Pollutant Discharge Elimination System (NPDES) program, which requires an NPDES permit for discharge. **Section 404: Under the CWA Section 404, the USACE and EPA regulate the discharge of dredged and fill materials into the waters of the U.S. Project sponsors must obtain a permit from USACE for discharges of dredged or fill materials into jurisdictional waters of the U.S.**

**Scope Request for Draft EIR:** *The proposed project includes dredging and filling in of the floodplain and the actual San Diego River basin and Sycamore Creek, this work needs to be specifically explained in detail for adequate assessment by the State and Federal Agencies noted in this letter.*

**Rivers and Harbors Act of 1899 Section 10 of the Rivers and Harbors Act of 1899** requires authorization from the USACE for the construction of any structure in or over any navigable waters of the U.S.

**U.S. Fish and Wildlife Coordination Act (16 U.S.C. Sections 661 to 667e et seq.)** The U.S. Fish and Wildlife Coordination Act applies to any federal project where any body of water is impounded, diverted, deepened, or otherwise modified. Project proponents are required to consult with USFWS and the appropriate state wildlife agency.

**Migratory Bird Treaty Act (16 U.S.C. Sections 703 to 712)** This is important because we have observed migrating robins, geese and other birds that use the Fresh Water Marsh. The Migratory Bird Treaty Act (MBTA) protects selected species of birds that cross international boundaries (i.e., species that occur in more than one country at some point during their life cycle). The law prohibits the take of such species, including the removal of nests, eggs, and feathers.

**Bald and Golden Eagle Protection Act (16 U.S.C. Sections 668 to 668d, 54 Statute 250)** This is important because we have observed a Golden Eagle that uses the Fresh Water Marsh and Riparian Habitat as hunting and feeding area. The Bald and Golden Eagle Protection Act prohibits the destruction of bald and golden eagles and their occupied and unoccupied nests.

**Protection of Wetlands (Executive Order 11990)** The Residential West project site is not critical enough to justify wetlands destruction, how will the Draft EIR ensure the project is in compliance with Executive Order 11990 which aims to avoid direct or indirect new construction in wetlands when a practicable alternative is available. If wetland impacts cannot be avoided, all practicable measures to minimize harm must be included.

**Protection of Migratory Bird Populations (Executive Order 13186)** This is important because we have observed migrating robins, geese and other birds that use the Fresh Water Marsh. Executive Order 13186 directs each federal agency taking actions that have or may have adverse impact on migratory bird populations to work with USFWS to develop a memorandum of understanding that will promote the conservation of migratory bird populations.

3. **Filling in a Floodplain:** The filling in of a floodplain as part of the project raises serious concerns regarding flood risk and hydrological impacts. Floodplains serve as natural buffers against flooding events, and any alteration to these areas can increase flood hazards downstream, affecting both the environment and nearby communities.

**Serious Project Concern:** In regards to the Residential West 86 houses/condominiums, the project indicates the housing is proposed to be built in the floodplain with a Base Flood Elevation (BFE) of 317', the project appears to raise the ground to nearly 330' which means that tons of dirt will be used to fill in the river valley to raise the ground by 13 feet.

**Scope Questions for Draft EIR:**

- a. How does the Draft EIR compute the loss of floodplain due to the raising of the ground level for the new housing?
- b. What is the projected impact on the projected water flow and depth at the the USGS monitoring station as West Hills Parkway and Mast Blvd known as site 11022480 after all aspects of the proposed project is complete, this statistic should be known during the EIR analysis.
- c. What State and Federal Agency will validate the project impact and be included in the Draft EIR?

**Reducing the floodplain will restrict the San Diego River from properly laying out flat in an alluvial fan floodplain the result may be a redirection of the Flow of the San Diego River:** Altering the natural flow of the San Diego River can have significant ecological consequences downstream and may affect water quality, riparian habitats, and aquatic species.



**Scope Request for Draft EIR:** It is crucial that the Draft EIR thoroughly evaluates the potential impacts of redirecting the river flow and includes mitigation measures to preserve the integrity of the river ecosystem.

**Scope Questions for Draft EIR:** The Draft EIR must include a robust analysis of floodplain impacts and propose adequate mitigation measures to minimize these risks.

**Scope Questions for Draft EIR that should be answered:**

- d. Where will river flood water be directed if no longer able to flow into the floodplain?
- e. How will this redirection of water flow affect mission trails park and the river bank and contour of the land?
- f. Will the hydrology study compute the impact of the loss floodplain and how will it address river flow changes during low rain to very high rain seasons?
- g. Due to the impact of a reduced floodplain, the hydrology and water flow will the project proposal specifically point that fact out and be submitted to the City of San Diego, River Conservancy, Mission Trails Park and users of the park be invited to analyze the proposal and give input to the Draft EIR?

These concerns are rooted in various regulatory frameworks aimed at protecting sensitive environments, as outlined below:

**Project Concern:** Filling in a floodplain can significantly **alter natural hydrological processes and increase flood risks**, which is regulated under the **City of San Diego Municipal Code (Article 1, Division 5, Chapter 10, Section 143.0102)** and state regulations such as the **California Coastal Act (Public Resources Code § 30000 et seq.)**.

**Scope Request for Draft EIR:** *The Draft EIR must evaluate potential floodplain impacts comprehensively, considering both direct flood risk implications, flood risk management and indirect impacts on downstream water quality and habitat integrity.* Mitigation measures should be proposed to minimize these risks in compliance with applicable regulations (San Diego City, County, State and Federal floodplain management objectives).

**Project Concern:** SANDAG's Regional Transportation Plan and Sustainable Communities Strategy stress the importance of floodplain management to mitigate flood risks and preserve natural habitats.

**Scope Request for Draft EIR:** The Draft EIR should include a comprehensive analysis of potential floodplain impacts, propose mitigation measures to minimize risks in accordance with SANDAG's planning documents and regulatory standards.

- 4. Redirecting the Flow of the San Diego River:** Altering the flow of the San Diego River can affect water quality, riparian habitats, and floodplain dynamics, regulated under the California Environmental Quality Act (CEQA) Guidelines (14 CCR § 15000 et seq.), and federal laws such as the National Environmental Policy Act (NEPA).

**Scope Request for Draft EIR:** The Draft EIR must evaluate impacts associated with redirected flow, propose mitigation measures to preserve ecological functions, and align with the City's strategic goals for environmental sustainability and resilience.

**Project Concern: SANDAG's Climate Action Strategy** and Mobility Hubs Concept emphasize sustainable water management practices to protect riverine ecosystems.

**Scope Request for Draft EIR:** The Draft EIR must evaluate the potential impacts of redirected flow on the San Diego River and Sycamore Creek, propose mitigation measures to preserve ecological functions, and align with SANDAG's strategic goals for sustainable development and environmental stewardship.

5. **Impacts to Mission Trails Park:** Mission Trails Park is a cherished recreational and ecological resource protected under the City of San Diego's Open Space Parks Master Plan and zoning ordinances (San Diego Municipal Code Chapter 13, Article 1). The City's Parks and Recreation Master Plan and Green Infrastructure Strategy highlight the importance of preserving park resources and minimizing impacts from adjacent development.

**Scope Request for Draft EIR:** The Draft EIR should assess potential impacts to Mission Trails Park comprehensively, including impacts on wildlife corridors, recreational amenities, and community access. Mitigation measures should be identified to protect the park's ecological integrity and recreational value.

**SANDAG's Active Transportation Plan and Complete Corridors Concept** promote safe and accessible park access while minimizing environmental impacts.

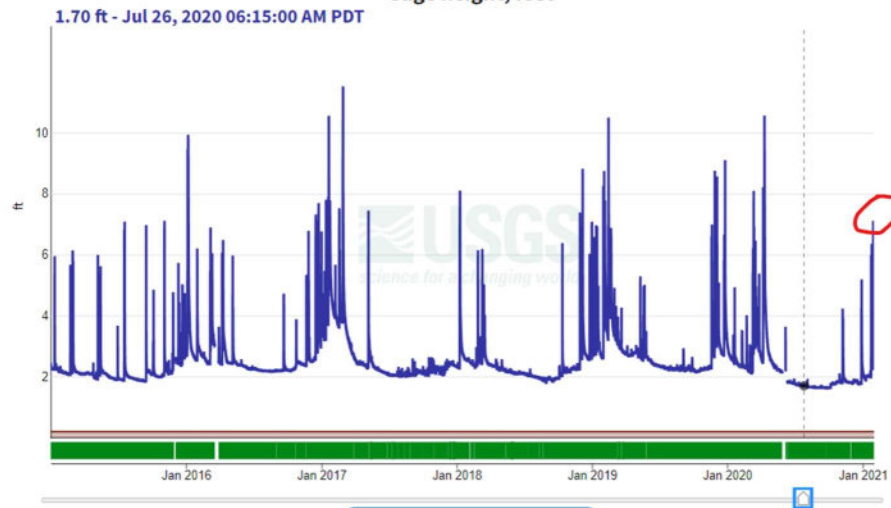
**Scope Request for Draft EIR:** The Draft EIR should assess potential impacts to Mission Trails Park comprehensively, propose mitigation measures to address concerns such as increased traffic, noise, and habitat fragmentation, and align with SANDAG's commitments to enhancing community well-being and environmental quality.

**Max Lenail died on Jan. 29, 2021.** The 21-year-old Brown University student was finishing a 10-mile run at **Mission Trails Regional Park when he drowned attempting to cross the San Diego River**. A storm had made the river treacherous even for Max, who had been an avid hiker, expert climber and an all-around elite athlete.

According to the USGS monitoring station at West Hills Parkway and Mast Blvd known as site 11022480, **the river height at this time was just about 7'**. This was no freak accidental storm; in fact, the chart below shows that the river flow at this location **exceeds 8' even 10' between 2016-2021**, this flow level continues through today. (red circle indicates 2021 storms).

- using custom time span -  
**San Diego R a Mast RD NR Santee CA -**  
**11022480**

January 1, 2015 - January 30, 2021  
 Gage height, feet



- (1) Red Circle indicates water flow level reading that swept Max Lenail into the river where he passed away.

**Scope Request for Draft EIR:** With the reduction of the alluvial fan floodplain at the proposed residential west location, the Draft EIR must describe the flow change and impact to Mission Trails Park, Mission Valley and all downstream sites and include input from downstream stakeholders.

**Scope Request for Draft EIR:** How will the new housing avoid the risk of flooding if the floodplain is reduced?

## 6. City of Santee General Plan Scope Issues and Compliance

**Project Concerns:** § 12.10.030 Consistency with General Plan required pursuant with the Municipal Code of Ordinances.

“No land may be subdivided pursuant to a vesting tentative map for any purpose which is inconsistent with the General Plan or any applicable specific plan, or not permitted by the Zoning Ordinance or other applicable provisions of the Municipal Code.”  
 (Ord. 565 § 3, 2019)

**Scope Request for Draft EIR:** The Draft EIR should explain **how the project will comply with Measure N**, the Santee General Plan Protection Initiative. The EIR should explain how the City of Santee is implementing the voter mandated law. The Fanita Ranch hearing related to this question is on June 14, with judgement expected soon thereafter.

**Scope Request for Draft EIR:** The GC NOP states the project includes "Low-Medium Density Residential ("R2")". An alternative that includes only the number of homes in that R2 zone should be considered

and presented, how many homes would a project build on only the R2 zone provide? Please study an alternative that limits residential development to the R2 zoning.

**Scope Request for Draft EIR:** Measure N requires that any project increasing density over the current General Plan zoning be subject to a vote of the people, unless specific findings can be made related to affordable housing. Are there any affordable housing bonuses being included in the project?

### General Plan – Zone PD requirements

#### **“CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010**

**This section establishes review procedures for residential, commercial, industrial, and institutional development proposals to achieve the following purposes:**

- D. To ensure that each new development **is designed to best comply with the intent and purpose of the zone** in which the property is located and with the general plan of the City; “

**AND,**

#### **Land Use Element, Section 8.1 Land Use Classifications**

PD Zoning is defined:

"This designation is intended for select properties within the City where a variety of development opportunities may be viable and where the City wishes to **encourage innovative and very high-quality development** in a manner which may not be possible under standard land use designations and their corresponding zones."

The proposed Carlton Oaks Golf Course development project area behind my home is designated as PD – which requires that “All LAND USE ELEMENT Santee General Plan Santee, California - 1-30 - **development which takes places pursuant to the Planned Development designation shall be consistent with the General Plan**

**Project Concern:** The proposed project sites currently located behind my home is zoned "PD" and "P/OS". The “Residential West” project site is zoned PD and is proposed to have 86 multi-family units, a much higher density than my property where there are 4 single family homes per acre (my home is on a 10,000 sq ft lot). *I reviewed the housing designs they are quite ordinary and missing architectural enhancements and unique designs that when compared to other new homes in San Diego County.*

The rear facing side of the proposed 86 multi-family units (which is oriented to my outdoor patios, dining room, office and backyard) appear to be muted stucco flat walls, narrow window panes and have no obvious architectural accents, they are quite ordinary and appear to be one of Lennar’s lower end designs compared to the other Lennar locations at Anacapa II at Otay Ranch, The Farm in Poway, The Trails in San Diego and many other projects.

**Scope Request for Draft EIR:** What industry standards and how does the housing design as proposed by the applicant meet the **PD zoning of ‘..innovative and of very high quality,’** if not then will the Draft EIR include an alternative design proposal that of very high quality? The ordinary and plain use of standard multi-family housing as proposed seems to be inconsistent with the expectations and permitted use of land zoned PD.

**Effect on Freeway Sound and existing sound dynamics and attenuation** due to ricochet effect of freeway noising bouncing off new 2-story buildings.

**Project Concern:** I am concerned with the narrowest section of the project and its proximity to the highway 52 bridge, how will the 2 story units being built between my home and the freeway affect the current freeway noise as it travels through our yard and neighborhood.

**The US Dept of Transportation** states that “Noise-compatible land-use planning can have a positive effect on a community's aesthetics, quality of life, and finances. Land-use planning provides appealing alternatives for reducing traffic noise without the use of barriers, which are more intrusive and visually and physically restrictive.” **I strongly agree with this assessment and have concerns with how the proposed 2-story homes will affect the sound levels, vibrations and frequency.**

There are mixed views on the effectiveness of walls, **however the use of tall trees has proven to be effective for sound attenuation and psychological relief** of losing picturesque views while blocking unsightly walls. (“Using Agroforestry to Buffer Noise”, USDA National Agroforestry Center, 402.437.5178 ext. 4011, 1945 N. 38th St., Lincoln, Nebraska 68583-0822. [www.unl.edu/nac](http://www.unl.edu/nac) The USDA National Agroforestry Center (NAC) is a partnership of the Forest Service (Research & Development and State & Private Forestry) and the Natural Resources Conservation Service)

**Draft EIR Scope Request:** The Draft EIR should include the positive impacts of installing **tall mature trees that are taller than the proposed 2 story homes that are proposed to line the development from my property and adjoining properties in the proposed Residential West site. The trees will attenuate the sound bouncing off the 2 story homes.** Noise-compatible land-use planning can have a positive effect on a community's aesthetics, quality of life, and finances. Land-use planning provides appealing alternatives for reducing traffic noise without the use of barriers, which are more intrusive and visually and physically restrictive. Using landscaping for sound attenuation is encouraged and directed as an alternative to walls per the City of Santee General Plan Noise Element Objectives and Policies 7.0, - Policy 1.4.

**Project Concern: Effect on wind and airflow.** **I have a nice steady western ocean breeze that blows from San Diego River through my property, this breeze is critical to keeping my home cool during the hot summers of Santee.**

**Scope Request for Draft EIR:** The Draft EIR should include a thorough and professional analysis from my home of current air flows and then *conduct an Aerodynamics and Wind Effect study of how a line of 2-story homes will block my 1 story from the desperately needed air and wind flow.*

**Scope Request for Draft EIR:** The Draft EIR should include the impact to the adjacent properties in regards to the requirement of "CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010 and include project

alternative and mitigation measures that are agreeable with the impacted property owners.

#### **“CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010**

**This section establishes review procedures for residential, commercial, industrial, and institutional development proposals to achieve the following purposes:**

***Purpose A: To encourage site and structural development which exemplify the best professional design practices;”***

**Scope Request for Draft EIR** – as noted in the section above General Plan – Zone PD requirements, Land Use Element, Section 8.1 Land Use Classifications

I reviewed the housing designs they are quite ordinary missing architectural enhancements and unique designs.

**Project Concern:** The rear facing side of the multi-family units located in Residential West are oriented toward my outdoor patios, dining room, office and backyard. The rear of these multi-units appears to be muted flat stucco walls, narrow window panes and have no obvious architectural accents, based on what generally is built in San Diego, these are quite ordinary and appear to be one of Lennar’s lower end designs compared to the other Lennar locations at Anacapa II at Otay Ranch, The Farm in Poway, The Trails in San Diego and many other projects.

**Scope Request for Draft EIR:** How does the housing design meet the structural development objective that “exemplifies the best professional design practices?” The current designs appear to be ordinary and plain, will the Draft EIR include a design alternative that is exemplary and will independent architects and design experts be invited to comment in the Draft EIR?

**Project Concern:** PD zoning of innovative and of very high quality, if not then will the Draft EIR include an alternative design proposal that of very high quality? The ordinary and plain use of standard multi-family housing as proposed seems to be inconsistent with the expectations and permitted use of land zoned PD.

#### **“CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010**

**“This section establishes review procedures for residential, commercial, industrial, and institutional development proposals to achieve the following purposes:**

***Purpose B. To enhance the residential and business property values within the City and in neighborhoods surrounding new development;”***

**Project Concern:** *It is a common and accepted understand by the Real Estate Industry (Buyers, Brokers and Lenders) that view lots are much more valuable than non-view lots. This Residential West project site will negatively impact and obstruct the views of the river valley and will drive down the value of my home along with my neighbors. The lots on Inverness were sold as “View Lots” in 1971 by Princess Homes and by all subsequent resellers.*

*It is a common and accepted understand by the Real Estate Industry and Home Buyers that a view of a river, nature, mountain or valley in an urban setting indicate significant positive property price. (“The effect of rivers, streams, and canals on property values” S. Nicholls | J. L. Crompton, Department of*

Community Sustainability, Michigan State University, East Lansing, Michigan, USA, Department of Geography, Environment, and Spatial Sciences, Michigan State University, East Lansing, Michigan, USA, Department of Recreation, Park and Tourism Sciences, Texas A&M University, College Station, Texas, USA) *that view lots are much more valuable than non-view lots.*

*A discussion with any legitimate real estate broker, property lender will underscore that a property with a view is more desirable and valuable than if that same exact property had no view.*

- The Residential West project site states that the river valley ground will be increased from around 295' to the Base Flood Elevation (BFE) of 317' and then 2 story multi-family homes will be added on top of the BFE. Lost view corridors, the proposed 2 story homes will obstruct our river valley view and mountain views from the existing homes on Inverness Rd. and Carlton Oaks Dr.

***Project Concern:*** *This project will negatively impact and obstruct the views of the river valley and hills, the value of my homes and neighbors will be impaired. The lots on Inverness were sold as "View Lots" in 1971 by Princess Homes and by all subsequent resellers. The housing development does not meet this General Plan Requirement.*

(See attachment A for an example of what I see today from my dining room, home office, patio and backyard)

**Scope Request for Draft EIR:** The Draft EIR should include steps to mitigate the impact to our views, losing views have a negative impact to property values and will have a significant impact to the well-being and mental health and enjoyment of the neighbors that sit outside to enjoy the view.

#### **"CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010**

***Purpose C:*** *"To develop property in a manner which respects the physical and environmental characteristics of each site;"*

*The development is in a Floodplain Channels, it negatively impacts Wildlife, Natural Boundaries and Current Hillsides. There is a geological and environmental reason why a Golf Course is here and not housing.*

**Scope Request for Draft EIR:** The Draft EIR should specify why the Residential West project site of 86 housing units is eliminating the floodplain, habitat and riparian wetlands is respecting the physical and environmental site.

#### **"CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010**

***Purpose D:*** *To minimize stress from poorly designed development which can create physical and psychological conditions affecting the health, safety, comfort and general welfare of the inhabitants of the City;"*



**Scope Request for Draft EIR:** The Draft EIR should include a specific biological survey of the Residential West project including the acres of floodplain being replaced, the view corridors being blocked and how the looking at the rear of a row of tightly fitted multi-family homes impacts the **psychological conditions of the adjacent residents. Keeping in mind that many of the residents moved here for the view of the valleys, hills, plants and to seek emotional and psychological enjoyment from the views, wetlands, encounters with animals, song bird and the western breezes.**

**Purpose E:** To ensure that each new development is **designed to best comply with the intent and purpose of the zone** in which the property is located and with the general plan of the City;

**Purpose F:** To ensure that **access to each property and circulation thereon are safe and convenient for pedestrians and vehicles;**

- Traffic is becoming dangerous and congested for **kids walking and riding bikes to Carlton Oaks Elementary, West Hills High School and Carlton Hills Elementary Schools.**

**Scope Request for Draft EIR:** The Draft EIR should include safety mitigation plans and project development elements that protect elementary age through high school from having to pass through another busy intersection as they walk or ride bikes to Carlton Oaks Elementary School at Wethersfield and Carlton Oaks dr or as they travel to the back entry to West Hills High School located on Oakbourne Rd. These students all travel on Carlton Oaks and will pass through the proposed housing development intersection at Burning Tree Way on their way to school.

#### **“CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010**

**Purpose G:** Regarding all properties designated as general commercial, neighborhood commercial or office professional: Development and redevelopment shall be comprehensively designed, entitled and developed whenever it is determined by the City that the permitting of incremental construction and uses may significantly inhibit or otherwise be detrimental to fulfilling the economic and development potential of the site.

**Any development review permit, conditional use permit or minor conditional use permit which is not consistent with this policy shall be denied. (Ord. 566 § 3, 2019)**

**Scope Request for Draft EIR:** Each permit should be included in the Draft EIR and include how these are consistent with the Policy as noted under CHAPTER 13.08 DEVELOPMENT REVIEW 13.08.010, purpose “G”.

#### **Project Concern: “Section 8.2. Special Use for Carlton Oaks Golf Course**

The property should be focused on a high-quality resort and recreation-related uses. **“Any residential uses should be accessory, and related to the primary recreation use.”**

**This project proposal in Santee is primarily a housing development with minimal golf facilities located in Santee. The non-housing facilities are a hotel, restaurant/bar and golf shop. The actual golf course primarily is a lease with the City of San Diego. This project essentially permanently changes the intended land use of this area and introduces a very large housing element, much greater than simply “accessory”.**

**Scope Request for Draft EIR:**

1. **To be compliant with the General Plan**, the Draft EIR should explain how and why adding 236 houses is accessory to the Golf Course Operations. The Residential West project site of 86 is more concerning, since this is quite far, disparate and not directly adjacent to the Golf Course operations center or clubhouse. How is this location of housing considered “accessory”? The Draft EIR should must compliance with housing being “accessory” to the main purpose of this area being a Golf course first and foremost. How is accessory being interpreted by the applicant?
2. The plan as submitted, includes hundreds of parking spaces, new traffic intersections into the existing neighborhood and a new access road to West Hills Parkway resulting 242 homes and roughly 3,000 - 5,000 daily car trips as the result of “accessory” housing. The Draft EIR should include a detail analysis of how “accessory” can create such a massive impact to the area. This appears to be a housing development regardless of the Golf Course, the draft EIR should explain how the impact and proposal is accessory to the Golf Course.
3. The Draft EIR should be forthcoming in that the General Plan must be amended by the Voters pursuant to Measure N in order to classify 242 primary housing as “accessory” to a golf course.
4. Furthermore, the original authors of the Section 8.2 including the former Mayor and Council Members that penned and approved this section to further explain what is meant by “accessory” and to explain the intentions and plans for the San Diego River Valley per the adoption of the General Plan.

**Scope Request for Draft EIR:** Another area of the City’s General Plan that appears inconsistent with the Residential West project is **Policy 9.1**, which states, *“The City should encourage the City of San Diego to protect vacant lands in the East Elliot area along the City’s western boundary as part of a regional biological preserve system.”* This designation of a biological preserve system would be sharply impacted by such a significant residential development. The riparian and wildlife species would be driven out of their natural habitat in the river bed and wetlands area, lost forever to asphalt parking lots and buildings.

**Project Concern:** Lastly, it appears this project will require thousands of cubic yards of imported dirt to fill in the San Diego River Valley Alluvial Floodplain and Sycamore Creek in the Residential West project site.

**Scope Request for Draft EIR:** The Draft EIR should specify how flying dust and dirt as the result of filling in the river valley will be mitigated so that it does not blow into adjoining properties contaminating the yards and polluting our homes. What measures will be taken to mitigate this hazard and the impact on the health and safety of the residents.

**For each of the concerns noted throughout my response to the NOP, the scope of the EIR should (1) Discuss Impacts and (2) Recommend Mitigation Measures that avoid or minimize adverse impacts including project alternatives.**

## Conclusion

**Scope Request for Draft EIR:** Due to the numerous impacts to the environment, floodplain, adjacent property owners and inconsistencies with the City of Santee's General Plan and inconsistencies with goals and objectives with the City of San Diego and SANDAG, State of California and Federal Government, **a Project Alternative to protect the Residential West site from development and instead preserve it as part of the San Diego River Open Space should be analyzed.**

In conclusion, I urge the City of Santee as the lead agency to conduct a robust analysis in the Draft EIR for Project "Carlton Oaks Country Club and Resor Project", addressing the concerns outlined above in accordance with all references to City of Santee, City San Diego, SANDAG, County of San Diego, San Diego River Conservancy, State of California and all Federal Agencies (Laws, Orders and Policies and Regulations). It is essential to ensure transparency, public participation, and adherence to environmental laws throughout the environmental review process.

Thank you for considering my comments. Please acknowledge receipt of this letter and keep me informed of further developments regarding this project.

Sincerely,

*Eid Fakhouri*

Eid Fakhouri, CPA

### Attachments:

- A.1 (SANDAG – GIS parcel view)
- A.2 (Google Satellite View of Marsh and Ponds)
- A.3 (Annual Flood of "Residential West" Project Site Photo)

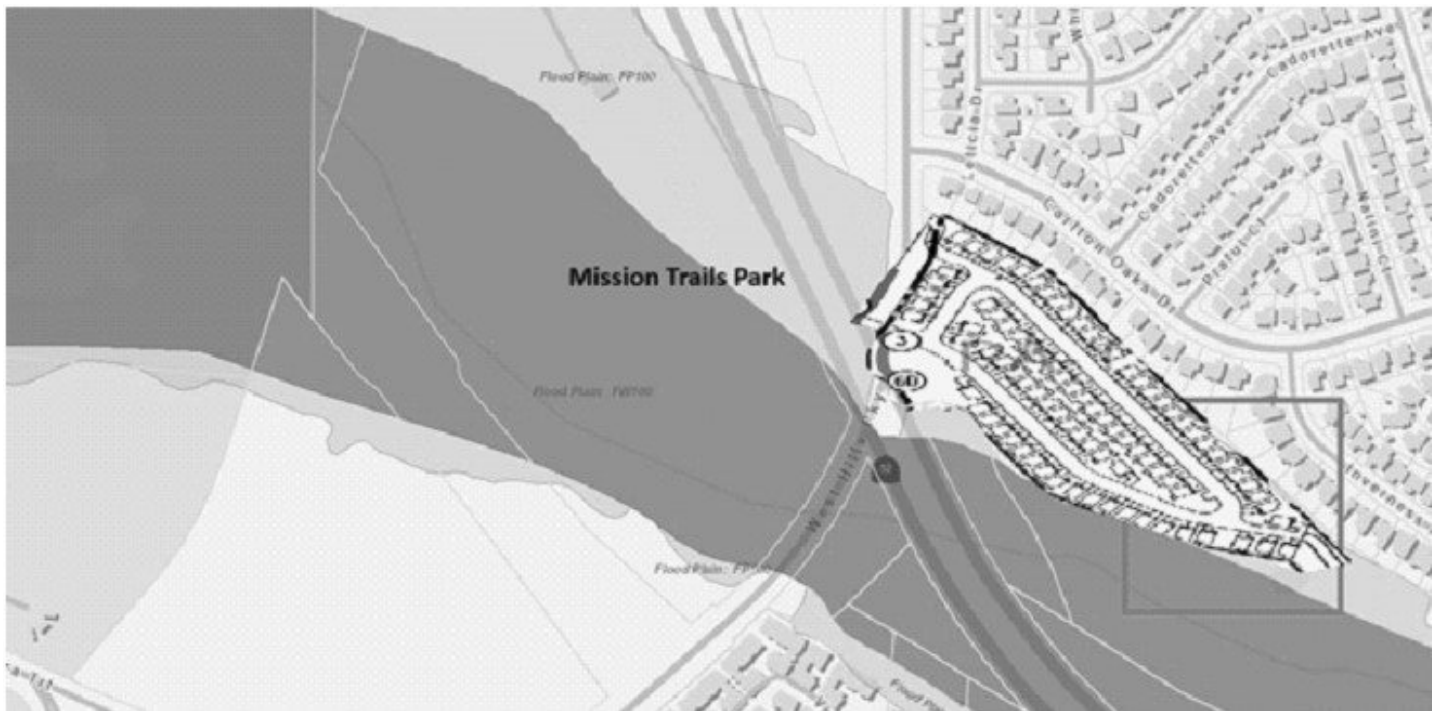
CC: Sandi Sawa, Director of Planning and Building/City Planner  
Marlene Best, Santee City Manager  
Dustin Trotter, City of Santee Councilmember, District 4  
Raul Campillo, City of San Diego Councilmember, District 7  
Michael Simonsen, City of San Diego, District 7 Chief of Staff  
Christina Bibler, City of San Diego, Director Economic Development  
Lucy Contreras, City of San Diego Deputy Director Real Estate  
Julia Richards, San Diego River Conservancy  
Rob Hutsel, San Diego River Park Foundation  
Van Collingsworth, Preserve Wild Santee



Floodplain and habitat to be backfilled with dirt and raised by 20-25 feet and then 86 2-story units will be built on top. Floodplain, marsh and riparian habitat to be eliminated.

City of San Diego approval to access through West Hills Parkway will result in a massive loss of wetlands habitat.

City of Santee approval will result in a massive loss of wetlands habitat.



# Attachment A2

Carlton Oaks Country Club



Imagery ©2024 Airbus, Maxar Technologies, Map data ©2024 100 ft

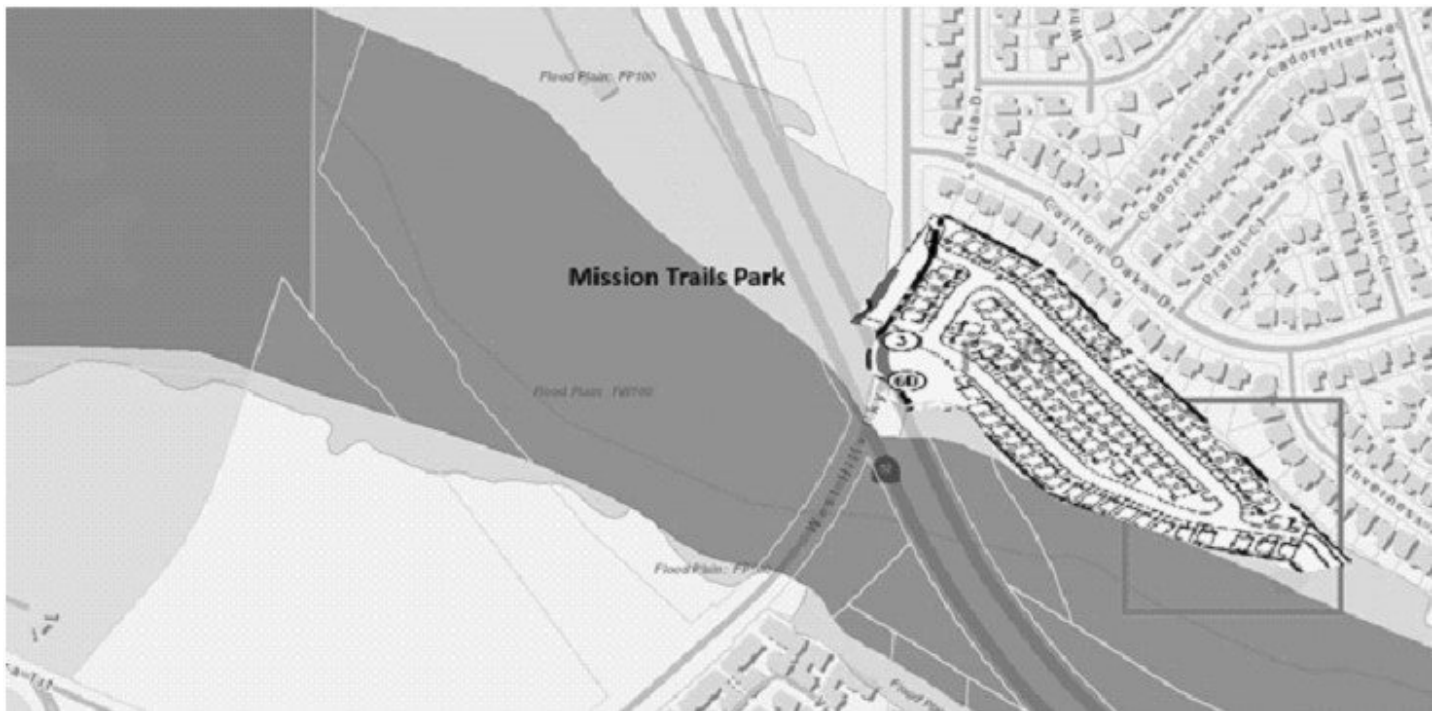
X = Elimination of Marsh and Riparian Habitat



Floodplain and habitat to be backfilled with dirt and raised by 20-25 feet and then 86 2-story units will be built on top. Floodplain, marsh and riparian habitat to be eliminated.

City of San Diego approval to access through West Hills Parkway will result in a massive loss of wetlands habitat.

City of Santee approval will result in a massive loss of wetlands habitat.





**From:** [eidcpa@aol.com](mailto:eidcpa@aol.com)  
**To:** [Christina Rios](#); [Sandi Sawa](#); [Marlene Best](#)  
**Cc:** [San Diego River Park Foundation](#); [Julia Richards](#); [Van Collinsworth](#)  
**Subject:** 2nd Response - Project Alternatives - NOP of a Draft Environmental Impact Report (EIR) - Project Carlton Oaks Country Club and Resort Project  
**Date:** Monday, July 1, 2024 1:04:42 PM  
**Attachments:** [2nd Response to NOP Draft EIR Proiec Alternatives Carlton Oaks Country Club.pdf](#)

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Dear Christina, Sandi and Marlene,

Attached is my second response to the NOP of a Draft EIR for the Carlton Oaks Golf Club, Resort and Housing Project. This second response summarizes and presents project alternatives that are suitable for the land use and mitigate impacts to the riparian habitat, wetlands and marsh area located in the Residential West site of the project area.

I would be happy to meet with you and provide more details as to how these alternatives can be implemented along with the the San Diego River Conservancy, San Diego River Park Foundation, City of San Diego, SANDAG and Preserve Wild Santee.

I will be stopping by later today to drop off a hard copy of the letter with the Planning Department. My neighbors and I look forward to be included in a transparent EIR process that accommodates the participation and input of adjacent property owners and all relevant wetland habitat stakeholders.

Thank you,  
Eid Fakhouri



July 1, 2024

Eid Fakhouri  
9007 Inverness Rd  
Santee, CA 92071

Christina Rios, Senior Planner  
Planning & Building Department, City of Santee  
10601 Magnolia Avenue  
Santee, CA 92071

Re: Second Response (Project Alternatives) to Notice of Preparation (NOP) of a Draft  
Environmental Impact Report (EIR) - Project Carlton Oaks Country Club and Resort Project

---

Dear Christina Rios, City of Santee, CEQA Compliance Unit,

As directed by the Notice of Preparation (NOP) of a Draft EIR for the project referenced above, I am responding to you with project alternatives that include land-use compatible ideas suitable for California Wetlands. I look forward to having these addressed along with other project alternatives in the scope of the Draft EIR.

Stated herein are a list of project alternatives including those that are summarized from my June 28th letter in response to the NOP.

**Evaluating project alternatives is crucial for several reasons:**

**Legal Requirements:** Environmental laws and regulations often mandate that EIRs include analysis of project alternatives. For instance, under the California Environmental Quality Act (CEQA), alternatives analysis is a required component of an EIR.

"The California Endangered Species Act (Sections 2050 to 2085) California Fish and Game Code (CFGF) Summary CESA mandates that state agencies **not approve a project that would jeopardize the continued existence of species** if reasonable and prudent alternatives are available that would avoid a jeopardy finding."

"**Executive Order W-59-93** (signed by Governor Pete Wilson on August 23, 1993) established state policy guidelines for wetlands conservation. The primary goal of this policy is **to ensure no overall net loss and to achieve a long-term net gain** in the quantity, quality, and permanence

of wetland acreage in California. The federal wetlands policy, representing a significant advance in wetlands protection, was unveiled by nine federal agencies on August 24, 1993."

**Identifying Feasible Alternatives:** Evaluating alternatives helps identify potentially feasible alternatives to the proposed project that could achieve similar objectives with lesser environmental impacts or greater benefits. This can lead to modifications or adjustments in the project design that mitigate environmental impacts.

**Enhanced Decision-Making:** A robust evaluation of alternatives provides decision-makers with a clearer understanding of the potential impacts of different project configurations or designs. This helps in making informed decisions that balance project objectives with environmental protection and community concerns.

**Public and Stakeholder Input:** Involving alternatives analysis in the response to the NOP allows for public and stakeholder input into the process. This fosters transparency and gives interested parties an opportunity to provide feedback on the range of alternatives considered and their impacts.

**Risk Management:** By considering alternatives early in the planning process, potential risks associated with the proposed project can be better managed or mitigated. This proactive approach can reduce delays and costs associated with addressing concerns later in the process.

#### **Project Alternatives:**

1. **"No Project Alternative for Residential West"** – As I pointed out in the 18-page response from June 28th, the project appears to be inconsistent with just about every law and regulation regarding wetlands, open space, and preservation of the quality of life of the residents adjacent to Residential West. The Residential West Site sits in a Floodplain, Marsh, and Riparian Habitat. It is a key location that should be set-aside and be preserved as mitigation to ensure "No Net Loss of Wetlands." Executive Order W-59-93.
2. **Create a "Municipal Owned Golf Course" to ensure Park and Open Space for Future Generations** – The applicant is essentially selling off all land as housing except the small portion for a Golf Club and Resort. As an alternative, the Golf Club area should be assessed for Municipal Ownership, similar to a donated park in lieu of impact fees. The new homes in Residential North can become a "Golf Maintenance District", similar to a lighting district, wherein residents would have access to the Pool and Golf at reduced or free access. The related Golf Maintenance District (via property tax bill) will ensure the operations continue in perpetuity. Bonds can be issued to assist the deal along with partial land-use for mitigation. The Hotel would remain privately owned.

### 3. **Project Alternatives for Draft EIR that Protect Habitat and Wetlands:**

a. **Preserve Residential West as open space for mitigation** due to moving the Golf Club and Resort to the middle of the River Valley and also from relocating a small section of its current location of Santee to the City of San Diego jurisdiction.

b. **Sell to San Diego River Conservancy or City of San Diego to mitigate various projects in Mission Valley** (As recommended by SANDAG and pursuant to May 28, 2010, City of San Diego Memo from William Anderson, Director of City Planning to Jay Goldstone, Chief Operating Officer City of San Diego).

c. **Set-aside to protect wildlife corridor and floodplain, use as an extension site to Mission Trails Park.** With input from San Diego River Park Foundation, San Diego River Conservancy, Mission Trails Park Foundation, City of San Diego, County of San Diego, SANDAG coordinate the acquisition of Residential West to preserve it as part of Mission Trails Park.

d. **Partial development of Residential West**, leaving the ponds, marsh, and riparian habitat from the Carlton Oaks Dissipator to Riparian Marsh and Woodlands as Santee open space preserve and undeveloped.

### 4. **Other Alternatives due to Quality-of-Life Issues:**

e. Include a project alternative that **mitigates the impact to existing view lots adjacent to "Residential West"** due to loss of property values, quality of life, and psychological impacts (Preserving ponds, marsh, and riparian habitat and building single-story units only in the area in front of the ponds, leaving the ponds and marsh as habitat/open space).

f. Include a project alternative that **mitigates the impact to existing freeway sound by installing tall trees** that are noise-compatible and also provide habitat for birds.

"Noise-compatible land-use planning can have a positive effect on a community's aesthetics, quality of life, and finances. Land-use planning provides appealing alternatives for reducing traffic noise without the use of barriers, which are more intrusive and visually and physically restrictive. Using landscaping for sound attenuation is encouraged and directed as an alternative to walls per the City of Santee General Plan Noise Element Objectives and Policies 7.0, - Policy 1.4."

g. **Increase the gap/set-backs between units in Residential West to mitigate the obstruction and impact to the western ocean breeze** that flows through the river valley into my property and neighbors. This breeze is critical to keeping my home cool during the hot summers of Santee.

**h. Redesign the rear side (facing existing homes) of the Residential West Units** to make them more aesthetically appealing and innovative as a way to further mitigate the loss of views causing other psychological and quality of life impacts (General Plan Requirement).

**i. Installation of high-quality street lights with sensors at Burning Tree Way** along with restriping to ensure children walking and riding bikes to Carlton Oaks Elementary and West Hills High School are safe.

**j. Include adequate and fair compensation for property loss value due to the negative impacts to existing view lots.**

In conclusion, I urge the City of Santee as the lead agency to conduct a robust analysis in the Draft EIR for Project "Carlton Oaks Country Club and Resort Project", addressing the concerns outlined in my June 28th letter and to consider the project alternatives summarized in this letter. It is essential to ensure transparency, public participation, and adherence to environmental laws throughout the environmental review process. This comprehensive approach ultimately leads to better environmental outcomes and more sustainable project development.

Thank you for considering my comments. Please acknowledge receipt of this letter and keep me informed of further developments regarding this project.

Sincerely,

*Eid Fakhouri*

Eid Fakhouri, CPA

CC: Sandi Sawa, Director of Planning and Building/City Planner  
Marlene Best, Santee City Manager  
Julia Richards, San Diego River Conservancy  
Rob Hutsel, San Diego River Park Foundation  
Van Collingsworth, Preserve Wild Santee

**From:** [Jacquelyn van R](#)  
**To:** [Christina Rios](#)  
**Subject:** Santee Golf Course Housing  
**Date:** Friday, June 28, 2024 11:01:39 AM

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Hello Christina,

I hope this email finds you well. I would like to express my dissatisfaction in the recent project proposition regarding the housing proposed around the Golf Resort in Santee. This town is already becoming too crowded, traffic and crime are both on the rise and I personally do not support more housing moving into our town.

I have to commute down Mast and Carlton Oaks every morning and the traffic between Cuyamaca and the 52 is already terrible. Adding any more homes between those two points will be adding another delay in my daily morning commute along with many other Santee residents that do not want to wake up another 60 minutes earlier just to get to work on time.

If you think this is negligible and don't think this is a big deal I'd like to challenge you to start at Santana High School and drive west out of Santee to the 15 freeway every day and tell me the traffic could stand to get worse and not affect anyone. Especially up the 52! That area has been awful for as long as I've lived here and only ever gotten worse.

As a long time resident of Santee I would insist you prevent this project from going forward to support us as Santee residents. Allow us to have the open space we and our wildlife enjoy every day. Help us to not suffer unnecessarily through even more traffic. I'm counting on you Christina. Fight for us!

All the best,

Jacquelyn G.

**From:** [jimandbarb8517@gmail.com](mailto:jimandbarb8517@gmail.com)  
**To:** [Christina Rios](#)  
**Subject:** Carlton Oaks Country Club EIR comments  
**Date:** Saturday, June 29, 2024 2:17:46 PM

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These are my concerns:

1. Residential North (PA-2) traffic congestion on Carlton Oaks Drive during the regular school year at Carlton Oaks Elementary .

The morning westbound traffic backs up from the stop light at Wethersfield Rd past Burning tree Way. ( the proposed entrance/exit).

2. One entrance/exit at Burning Tree Way for 156 units and the resort will reduce the air quality, and make the noise from traffic terrible for the houses in the immediate area.

3. The property on the Northwest corner of Burning Tree Way has existing property access that could be blocked based on the type of traffic control used at the proposed entrance/exit.

Thank you,

James Dell

8738 Carlton Oaks drive

Santee, Ca.

(619) 538-1288

**From:** [Bob B](#)  
**To:** [Christina Rios](#); [outreach@carltonoaksinfo.com](mailto:outreach@carltonoaksinfo.com)  
**Subject:** Letter of Support  
**Date:** Sunday, June 30, 2024 7:33:19 AM

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Santee Planning Department,

I'm writing to you to express my strong support for the reimagined Carlton Oaks project.

I have been an active men's golf club member at Carlton Oaks for over 25 years and am excited for the many upgrades they have planned. I've always been surprised by some of the houses that border the course on the west end of the golf course. On most golf courses, the houses that border the courses are often well kept, updated, and in excellent shape. Unfortunately, several of the homes bordering Carlton Oaks appear to be in poor and unkempt condition. In addition to the much-needed upgrades to the golf course, the new residential units planned will bring new and updated housing opportunities to Santee. This will significantly enhance the Santee community and bring in new families that are looking for a new home community with all the additional benefits that come with it.

Sincerely,

Robert C. Buckingham



**From:** [Tom Paden](#)  
**To:** [Christina Rios](#)  
**Cc:** [Mike Aiken](#)  
**Subject:** Proposed Development Carlton Oaks  
**Date:** Sunday, June 30, 2024 1:17:56 PM

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To whom it concern,

I am sending this email in support for the proposed development at Carlton Oaks Golf Course and Country Club.

I believe in growth. This project will bring jobs to Santee as well as tax dollars. I'm a retired firefighter and understand the importance that the increase in property, sales and resort taxes will have for our local infrastructure. This development will make Santee a destination for visitors.

Sincerely

Tom Paden  
Santee Resident

**From:** [Diaz-Barriga, Frida@Wildlife](mailto:Diaz-Barriga.Frida@Wildlife)  
**To:** [Christina Rios](#)  
**Cc:** [Burlaza, Melanie@Wildlife](mailto:Burlaza.Melanie@Wildlife); [Tang, Victoria@Wildlife](mailto:Tang.Victoria@Wildlife); [Gibson, Steve@Wildlife](mailto:Gibson.Steve@Wildlife); [Rieman, Frederic@Wildlife](mailto:Rieman.Frederic@Wildlife); [Turner, Jennifer@Wildlife](mailto:Turner.Jennifer@Wildlife); [jon\\_avery@fws.gov](mailto:jon_avery@fws.gov); [Susan\\_wynn@fws.gov](mailto:Susan_wynn@fws.gov); [OPR State Clearinghouse](#)  
**Subject:** Notice of Preparation for a Draft Environmental Impact Report for the Carlton Oaks Country Club and Resort SCH NO. 2024060258; San Diego, CA  
**Date:** Monday, July 8, 2024 1:21:12 PM  
**Attachments:** [Outlook-kvoiopwc.png](#)  
[2024060258\\_NOP\\_Santee\\_Carlton Oaks Country Club.pdf](#)

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Hello Christina,

Please see the attached document for your records. If you have any questions please direct them to Kelly Fisher at [Kelly.Fisher@wildlife.ca.gov](mailto:Kelly.Fisher@wildlife.ca.gov) or at (858) 354-5083.

Thank you.

Frida Diaz (She/Her) | Staff Services Analyst  
**South Coast Region 5**  
3030 Old Ranch Parkway, Suite 400  
Seal Beach, CA 90740  
**Work Cell** 858-203-5876



**From:** [Lewis Clapp](#)  
**To:** [Christina Rios](#)  
**Cc:** [Peejay Tubongbanua](#)  
**Subject:** Carlton Oaks NOP Comments  
**Date:** Monday, July 8, 2024 2:24:05 PM  
**Attachments:** [PDMWD\\_DraftEIR\\_Scope\\_Comments.pdf](#)

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Good Afternoon Christina,

Attached are comments from Padre Dam Municipal Water District related to the Notice of Preparation of a Draft Environmental Impact Report for the Carlton Oaks Country Club and Resort Project. Please acknowledge receipt of the comments and let me or Peejay know if you have any questions.

Thanks,

**Lewis Clapp, PE**

Director of Engineering

Padre Dam Municipal Water District

619.258.4640 (D) 619.323.9344 (M)

[lclapp@padre.org](mailto:lclapp@padre.org) | [www.padredam.org](http://www.padredam.org)



July 8, 2024

Christina Rios  
Senior Planner  
City of Santee  
10601 Magnolia Avenue  
Santee, CA 92071

Dear Ms. Rios,

Padre Dam Municipal Water District (Padre Dam) received the Notice of Preparation of a Draft Environmental Impact Report for the Carlton Oaks Country Club and Resort Project on June 10, 2024. In response to the invitation for public input Padre Dam offers the following comments regarding the scope of the Draft EIR:

- Please identify the source of water for the project and consider the jurisdictional boundary between Padre Dam Municipal Water District and the City of San Diego. Portions of the proposed development appear to cross the boundary. Padre Dam is not permitted to service properties outside of its boundary or sphere of influence without approval from the neighboring agency and/or San Diego LAFCO approval.
- Please consider prior rights of Padre Dam as an easement holder over portions of the property for the proposed development. Improvements placed on the property should not interfere with Padre Dam's ability to access, maintain, replace, or improve infrastructure.
- Altering grades, increasing flooding depths, dedicating environmentally restrictive easements, and other improvements over and immediately surrounding infrastructure should be avoided. Impacts from the development could include increase potential for sanitary sewer overflows.

Thank you for your consideration of these comments. Please reach out to me with any questions regarding this letter at [LClapp@padre.org](mailto:LClapp@padre.org) or at (619) 258-4640.

Sincerely,

Lewis Clapp  
Director of Engineering  
Padre Dam Municipal Water District  
619-258-4640

cc: Peejay Tubongbanua, Padre Dam Engineering Manager

Ph: (626) 314-3821  
Fx: (626) 389-5414  
Em: [info@mitschtsailaw.com](mailto:info@mitschtsailaw.com)



139 South Hudson Avenue  
Suite 200  
Pasadena, California 91101

---

**VIA E-MAIL**

July 25, 2024

City of Santee, Planning & Building Department  
Christina Rios, Senior Planner  
10601 Magnolia Avenue, Santee, CA 92071  
Em: [crios@cityofsanteeca.gov](mailto:crios@cityofsanteeca.gov)  
(619) 258-4100 ext. 157

**RE: City of Santee, Carlton Oaks Golf Resort and Lennar Homes  
Project (SCH# 2024060258).**

Dear Christina Rios,

On behalf of the Western States Regional Council of Carpenters (“Western Carpenters” or “WSRCC”), my Office is submitting these comments for the Carlton Oaks Golf Resort and Lennar Homes Project’s (“**Project**”) Notice of Preparation (“**NOP**”).

The Western States Regional Council of Carpenters is a labor union representing almost 90,000 union carpenters in 12 states, including California, and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects.

The proposed Project would redesign the existing golf course, construct a country club with approximately 51,926 square feet of golf related resort amenities including 10 cottage-style hotel units, 42-room hotel, a clubhouse with a restaurant, event space, a golf learning center, a cart barn, a pro shop, and a store, and construct a residential component consisting of 86 multi-family detached residential units in the western portion, 150 detached multi-family residential units in the northern portion, and 6 additional single-family lots along Carlton Oaks drive.

Individual members of the Western Carpenters live, work, and recreate in the City and surrounding communities and would be directly affected by Project’s environmental impacts.

The Western Carpenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearing and proceeding related

to this Project. Gov. Code, § 65009, subd. (b); Pub. Res. Code, § 21177, subd. (a); see *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199-1203; see also *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

Moreover, the Western Carpenters requests that the City provide notice for any and all notices referring or related to the Project issued under the California Environmental Quality Act (**CEQA**) (Pub. Res. Code, § 21000 *et seq.*), and the California Planning and Zoning Law (“**Planning and Zoning Law**”) (Gov. Code, §§ 65000–65010). California Public Resources Code Sections 21092.2, and 21167(f) and California Government Code Section 65092 require agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency’s governing body.

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

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>1</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 that the “[u]se of a local state-certified apprenticeship program” can result in air pollutant reductions.<sup>2</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>3</sup>

Moreover, local hire mandates and skill-training are critical facets of a strategy to reduce vehicle miles traveled (VMT). As planning experts Robert Cervero and Michael Duncan have noted, simply placing jobs near housing stock is insufficient to

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<sup>1</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>2</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>3</sup> California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, *available at* <https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf>

achieve VMT reductions given that the skill requirements of available local jobs must match those held by local residents.<sup>4</sup> Some municipalities have even tied local hire and 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 consider utilizing 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. Recently, several

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<sup>4</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>.



construction sites have been identified as sources of community spread of COVID-19.<sup>5</sup>

Western Carpenters recommend that the Lead Agency adopt additional requirements to mitigate public health risks from the Project's construction activities. Western Carpenters requests that the Lead Agency require safe on-site construction work practices as well as training and certification for any construction workers on the Project Site.

In particular, based upon Western Carpenters' experience with safe construction site work practices, Western Carpenters recommends that the Lead Agency 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.

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<sup>5</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>.

- 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>6</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 Agency should require that all construction workers undergo COVID-19 Training and Certification before being allowed to conduct construction activities at the Project Site.

Western 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>7</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.

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<sup>6</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>7</sup> For details concerning Western Carpenter’s ICRA training program, see <https://icrahealthcare.com/>.

### III. THE PROJECT RAISES ENVIRONMENTAL CONCERNS

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>8</sup> At its core, “[i]ts purpose is to 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).

For this Project, there are significant concerns relating to the Project Site’s existence on the 100-year floodplain. Flooding concerns are especially relevant considering the historic levels of flooding that occurred in February 2024. WSRCC requests that the City fully evaluate the risks and impacts associated with building the Project on the floodplain.

WSRCC further requests that the City take special care when evaluating the Project’s impacts on biological resources and that any field surveys follow the survey protocol guidelines established by the CDFW, including special status plants, the Crotch Bumble Bee, and the Coastal California Gnatcatcher, as well as other potential special status species.<sup>9</sup>

### IV. CONCLUSION

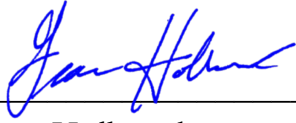
The WSRCC requests that the City consider utilizing a local workforce, implementing Covid-19 safety measures, and thoroughly analyze the Project’s biological resources impacts and any hazards that may arise from flooding relating to the Project Site’s location. If the City has any questions, feel free to contact my Office.

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<sup>8</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 erroneous.” *Center for Biological Diversity v. Department of Fish & Wildlife* (2015) 62 Cal. 4th 204, 217.

<sup>9</sup> CDFW, Survey Monitoring Protocols and Guidelines, available at: <https://wildlife.ca.gov/Conservation/Survey-Protocols#377281280-plants>.

Sincerely,



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Grace Holbrook

Attorneys for Western 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>

| <b>Worker Trip Length by Air Basin</b> |                      |                      |
|----------------------------------------|----------------------|----------------------|
| <b>Air Basin</b>                       | <b>Rural (miles)</b> | <b>Urban (miles)</b> |
| 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     |

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|                 |                    |        |       |
|-----------------|--------------------|--------|-------|
| 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> |

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**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> |

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**3.3 Site Preparation - 2021****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 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> |

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**3.4 Grading - 2021****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.6400e-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> |

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**3.4 Grading - 2021****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.6400e-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> |

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 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> |

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0527        | 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> |

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |                    |               |                |                    |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0382        | 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> |

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

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |               |               |               |                    |               |                |                    |               | MT/yr         |                   |                   |               |               |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Vendor       | 0.0382        | 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   | 7,620.498<br>6 | 7,620.498<br>6 | 0.3407 | 0.0000 | 7,629.016<br>2 |
| Unmitigated | 1.5857  | 7.9962 | 19.1834 | 0.0821 | 7.7979        | 0.0580       | 7.8559     | 2.0895         | 0.0539        | 2.1434      | 0.0000   | 7,620.498<br>6 | 7,620.498<br>6 | 0.3407 | 0.0000 | 7,629.016<br>2 |

## 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<br>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

|                         |                            |                         |       |                           |       |
|-------------------------|----------------------------|-------------------------|-------|---------------------------|-------|
| Urbanization            | Urban                      | Wind Speed (m/s)        | 2.2   | Precipitation Freq (Days) | 33    |
| Climate Zone            | 9                          |                         |       | Operational Year          | 2028  |
| Utility Company         | Southern California Edison |                         |       |                           |       |
| CO2 Intensity (lb/MWhr) | 702.44                     | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr)   | 0.006 |

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

## 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        |          | 1,292.241<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       | 0.0643        | 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>1,463.056<br/>8</b> | <b>1,463.056<br/>8</b> | <b>0.0927</b> |     | <b>1,465.375<br/>0</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       | 0.0643        | 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>1,463.056<br/>8</b> | <b>1,463.056<br/>8</b> | <b>0.0927</b> |     | <b>1,465.375<br/>0</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       | 0.0772        | 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        | 18,000.00<br>00         | 18,000.00<br>00         | 0.3450        | 0.3300        | 18,106.96<br>50         |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-<br>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>18,148.59<br/>50</b> | <b>18,148.59<br/>50</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.11<br/>92</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        |          | 1,269.8555        | 1,269.8555        | 0.0908        |     | 1,272.1252        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 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>1,430.6932</b> | <b>1,430.6932</b> | <b>0.0955</b> |     | <b>1,433.0812</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, 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        |          | 3,789.0750         | 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> |

**Mitigated Construction On-Site**

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



## 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        |          | 3,671.400<br>7          | 3,671.400<br>7          | 0.2096        |     | 3,676.641<br>7          |
| Worker       | 3.3795        | 2.1338         | 24.9725        | 0.0801        | 8.9533        | 0.0681        | 9.0214        | 2.3745         | 0.0627        | 2.4372        |          | 7,983.731<br>8          | 7,983.731<br>8          | 0.2055        |     | 7,988.868<br>3          |
| <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>11,655.13<br/>25</b> | <b>11,655.13<br/>25</b> | <b>0.4151</b> |     | <b>11,665.50<br/>99</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, 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        | 2,207.5472        | 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       | 0.0601        | 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 | 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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## 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 |

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

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |        |            |
| 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                                     |

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|    |           |            |        |        |
|----|-----------|------------|--------|--------|
| 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> |

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**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> |

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**3.2 Demolition - 2021****Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 1.9300e-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> |

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**3.3 Site Preparation - 2021****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 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> |

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**3.3 Site Preparation - 2021****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 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> |

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**3.4 Grading - 2021****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2200e-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> |

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 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> |

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

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 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> |

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**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   | 7,620.498<br>6 | 7,620.498<br>6 | 0.3407 | 0.0000 | 7,629.016<br>2 |
| Unmitigated | 1.5857  | 7.9962 | 19.1834 | 0.0821 | 7.7979        | 0.0580       | 7.8559     | 2.0895         | 0.0539        | 2.1434      | 0.0000   | 7,620.498<br>6 | 7,620.498<br>6 | 0.3407 | 0.0000 | 7,629.016<br>2 |

## 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 |



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**5.2 Energy by Land Use - NaturalGas****Unmitigated**

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| Apartments 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> |

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**5.2 Energy by Land Use - NaturalGas****Mitigated**

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| Apartments 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/MWhr)</b> | 702.44                     | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

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

## 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        | 18,000.00<br>00         | 18,000.00<br>00         | 0.3450        | 0.3300        | 18,106.96<br>50         |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-<br>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>18,148.59<br/>50</b> | <b>18,148.59<br/>50</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.11<br/>92</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

|                          |                            |                          |       |                           |       |
|--------------------------|----------------------------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Urban                      | Wind Speed (m/s)         | 2.2   | Precipitation Freq (Days) | 33    |
| Climate Zone             | 9                          |                          |       | Operational Year          | 2028  |
| Utility Company          | Southern California Edison |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 702.44                     | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr)  | 0.006 |

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

## 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   | 6,154.337<br>7  | 6,154.337<br>7  | 1.9472 | 0.0000 | 6,203.018<br>6  |
| 2022    | 4.7966   | 38.8851 | 39.6338 | 0.1195 | 8.8255        | 1.6361       | 10.4616    | 3.6369         | 1.5052        | 5.1421      | 0.0000   | 12,035.34<br>40 | 12,035.34<br>40 | 1.9482 | 0.0000 | 12,060.60<br>13 |
| 2023    | 4.3939   | 25.8648 | 37.5031 | 0.1162 | 7.0088        | 0.7598       | 7.7685     | 1.8799         | 0.7142        | 2.5940      | 0.0000   | 11,710.40<br>80 | 11,710.40<br>80 | 0.9617 | 0.0000 | 11,734.44<br>97 |
| 2024    | 237.0656 | 9.5503  | 14.9372 | 0.0238 | 1.2171        | 0.4694       | 1.2875     | 0.3229         | 0.4319        | 0.4621      | 0.0000   | 2,307.051<br>7  | 2,307.051<br>7  | 0.7164 | 0.0000 | 2,324.962<br>7  |
| Maximum | 237.0656 | 46.4460 | 39.6338 | 0.1195 | 18.2032       | 2.0456       | 20.2488    | 9.9670         | 1.8820        | 11.8490     | 0.0000   | 12,035.34<br>40 | 12,035.34<br>40 | 1.9482 | 0.0000 | 12,060.60<br>13 |

## 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        | 2,207.547<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       | 0.0444        | 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        | 18,000.00<br>00         | 18,000.00<br>00         | 0.3450        | 0.3300        | 18,106.96<br>50         |
| Landscaping           | 2.4766         | 0.9496         | 82.4430        | 4.3600e-<br>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>18,148.59<br/>50</b> | <b>18,148.59<br/>50</b> | <b>0.4874</b> | <b>0.3300</b> | <b>18,259.11<br/>92</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                         |            |
|---------------------------------------------------------|------------|
| <b>Without Local Hire Provision</b>                     |            |
| Total Construction GHG Emissions (MT CO2e)              | 3,623      |
| Amortized (MT CO2e/year)                                | 120.77     |
| <b>With Local Hire Provision</b>                        |            |
| 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:**

Remy, L.L., Clay T., Byers, V., **Rosenfeld P. E.** (2019) Hospital, Health, and Community Burden After Oil Refinery Fires, Richmond, California 2007 and 2012. *Environmental Health*. 18:48

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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.

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**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

1640 5<sup>th</sup> St., Suite 204 Santa  
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.

Residence Of:

Vista Del Verde Condos

9053 Calle Del Verde

Santee, CA 92071

**RECEIVED**

JUL 3 2024

Dept. of Development Services  
City of Santee

To Whom it May Concern:

We live in the Vista Del Verde Condos and we have the following concerns regarding construction of the golf course.

1. The plans indicate that there will be a walking trail that ends at the current emergency gate. This is where my home is located. I am concerned that this will bring unwanted foot traffic, cause parking issues and changing what has been a safe and quiet neighborhood.
2. I am concerned that the construction of the safety vehicle access road will take away the open space we currently have in our community for children to play, events to be held, etc. What will be done to make sure we are able to maintain this space in our community?
3. I am concerned that the construction will disrupt the protected wildlife between our home and the golf course. What will be done insure the protection of this area?
4. My husband and I work from home and are concerned that the long construction dates and the noise from the construction will not allow us to work efficiently. Our office is located in the room closest to the street and potentially the closest to construction. Unfortunately, we have single painned windows and this will not help with the potential overall noise.
5. Our residence and personal parking space is located on either side of one of the mentioned existing sewer maintenance holes. Should sewer maintenance hole liner construction be necessary, I am concerned with our proximity to the construction (ex. noise pollution, air pollution, derby, interruption of daily living activities, etc.)

Overall, we do support the construction of the golf course and we appreciate the opportunity to discuss our concerns. We hope that the golf course is able to be maintained along with our property. Thank you for your time.

Kind Regards,

The Vanina Family

Contact Information:

Brian Vanina

661-618-3210



## NATIVE AMERICAN HERITAGE COMMISSION

June 10, 2024

Christina Rios  
City of Santee  
10601 Magnolia Ave  
Santee CA 92071

RECEIVED

JUN 17 2024

Dept. of Development Services  
City of Santee

CHAIRPERSON  
**Reginald Pagaling**  
Chumash

VICE-CHAIRPERSON  
**Buffy McQuillen**  
Yokayo Pomo, Yuki,  
Nomlaki

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Ohlone-Costanoan

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**Reid Milanovich**  
Cahuilla

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**Bennae Calac**  
Pauma-Yuima Band of  
Luiseño Indians

EXECUTIVE SECRETARY  
**Raymond C.  
Hitchcock**  
Miwok, Nisenan

NAHC HEADQUARTERS  
1550 Harbor Boulevard  
Suite 100  
West Sacramento,  
California 95691  
(916) 373-3710  
[nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)

**Re: 2024060258, Carlton Oaks Country Club and Resort Project, San Diego County**

Dear Ms. Rios:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, § 15064.5 (b) (CEQA Guidelines § 15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines § 15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

**Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.**



AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

**1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project:**

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- a. A brief description of the project.
- b. The lead agency contact information.
- c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

**2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report:**

A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

**3. Mandatory Topics of Consultation If Requested by a Tribe:** The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- a. Alternatives to the project.
- b. Recommended mitigation measures.
- c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).

**4. Discretionary Topics of Consultation:** The following topics are discretionary topics of consultation:

- a. Type of environmental review necessary.
- b. Significance of the tribal cultural resources.
- c. Significance of the project's impacts on tribal cultural resources.
- d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

**5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process:** With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

**6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:** If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
- b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. Conclusion of Consultation:** Consultation with a tribe shall be considered concluded when either of the following occurs:
- The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
  - A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document:** Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation:** If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- 10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:**
- Avoidance and preservation of the resources in place, including, but not limited to:
    - Planning and construction to avoid the resources and protect the cultural and natural context.
    - Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
  - Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
    - Protecting the cultural character and integrity of the resource.
    - Protecting the traditional use of the resource.
    - Protecting the confidentiality of the resource.
  - Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
  - Protecting the resource. (Pub. Resource Code §21084.3 (b)).
  - Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
  - Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource:** An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
- The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
  - The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
  - The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).



## SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at:

[https://www.opr.ca.gov/docs/09\\_14\\_05\\_Updated\\_Guidelines\\_922.pdf](https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf).

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
  - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
  - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>.

## NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center ([https://ohp.parks.ca.gov/?page\\_id=30331](https://ohp.parks.ca.gov/?page_id=30331)) for an archaeological records search. The records search will determine:
  - a. If part or all of the APE has been previously surveyed for cultural resources.
  - b. If any known cultural resources have already been recorded on or adjacent to the APE.
  - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
  - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
  - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
  - b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
  - a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
  - b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
  - a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, § 15064.5(f) (CEQA Guidelines § 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
  - b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
  - c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code § 7050.5, Public Resources Code § 5097.98, and Cal. Code Regs., tit. 14, § 15064.5, subdivisions (d) and (e) (CEQA Guidelines § 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address:  
[Murphy.Donahue@NAHC.ca.gov](mailto:Murphy.Donahue@NAHC.ca.gov).

Sincerely,

*Murphy Donahue*

Murphy Donahue  
Cultural Resources Analyst

cc: State Clearinghouse

**From:** [Sandela Kuntz](#)  
**To:** [Christina Rios](#)  
**Subject:** NOP Comment - Carlton Oaks Country Club and Resort Project  
**Date:** Sunday, July 7, 2024 11:33:45 AM

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Dear Christina Rios,

Thank you for administering my comments for the Carlton Oaks Country Club and Resort Project.

I have the following concerns-questions for the [Notice of Preparation](#):

What would be **all the possible consequences** of filling part or all of the floodplain of the San Diego River?

How would filling part of the floodplain affect the long-awaited, much-anticipated completion of the **San Diego River Trail**, specifically?

How would this specifically affect the **west end** of the golf course where it meets the river?

How would the **natural environments** of the adjacent (across West Hills Parkway) Mission Trails Regional Park be affected by the project, including the San Diego River and its riparian habitat?

How would the **recreational uses** of the Mission Trails Regional Park be impacted, including wildlife viewing? in the areas of **Noise, Light, Traffic, Pollution, Air Quality**?

How would the project impact the preservation of the natural beauty and peace at **Kumeyaay Lake**? in the areas of Noise, Light, Traffic, Pollution, Air Quality?

And including campers' experiences at the **Kumeyaay Campground**? in the areas of Noise, Light, Traffic, Pollution, Air Quality?

How would the Project affect any **sensitive species** that live in the **riparian zone** along the San Diego River?

How would the City of San Diego's **River Park Master Plan** be affected by the project?

Is armoring of the proposed fill in the floodplain **required**?

Would this **armoring affect** the San Diego River's riparian habitat?

Would the **health** of the San Diego River and its floodplain and riparian habitat be the highest **priority** for this development?

Thank you for your time and consideration.

Sandy Kuntz  
Resident, Santee, California  
619.888.1248



## California Department of Transportation

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SAN DIEGO, CA 92110  
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July 3, 2024

11-SD-52

PM 13.27

Carlton Oaks Country Club and Resort Project  
NOP/SCH#2024060258

Ms. Christina Rios  
Senior Planner  
Planning and Building Department  
City of Santee  
10601 Magnolia Avenue  
Santee, CA 92071

Dear Ms. Rios:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Notice of Preparation (NOP) on the Carlton Oaks Country Club and Resort Project near State Route 52 (SR-52) and Mast Boulevard in Santee. The mission of Caltrans is to provide a safe and reliable transportation network that serves all people and respects the environment. The Local Development Review (LDR) Program reviews land use projects and plans to ensure consistency with our mission and state planning priorities.

Safety is one of Caltrans' strategic goals. Caltrans strives to make the year 2050 the first year without a single death or serious injury on California's roads. We are striving for more equitable outcomes for the transportation network's diverse users. To achieve these ambitious goals, we will pursue meaningful collaboration with our partners. We encourage the implementation of new technologies, innovations, and best practices that will enhance the safety on the transportation network. These pursuits are both ambitious and urgent, and their accomplishment involves a focused departure from the status quo as we continue to institutionalize safety in all our work.

Caltrans is committed to prioritizing projects that are equitable and provide meaningful benefits to historically underserved communities, to ultimately improve transportation accessibility and quality of life for people in the communities we serve.

We look forward to working with the City of Santee in areas where the City and Caltrans have joint jurisdiction to improve the transportation network and connections

between various modes of travel, with the goal of improving the experience of those who use the transportation system.

Caltrans has the following comments:

### **Traffic Impact Study**

- A Vehicle Miles of Travel (VMT) based Traffic Impact Study (TIS) should be provided for this project. Please use the Governor's Office of Planning and Research Guidance to identify VMT related impacts.<sup>1</sup>
- The TIS may also need to identify the proposed project's near-term and long-term safety or operational issues, on or adjacent any existing or proposed State facilities.
- Please provide Local Mobility Analysis, if available.

### **Hydrology and Drainage Studies**

The project's runoff will drain away from Caltrans' Right-of-Way (R/W), but it may impact tailwater for culverts along SR-52. The project is within a Federal Emergency Management Agency (FEMA) defined floodway/floodplain. The proposed project features may alter the FEMA defined floodway/floodplain and associated water surface elevations through the project area and may have adverse impacts upstream. Caltrans requests that the City of San Diego and the City of Santee, acting as the Local FEMA Administrators, include Caltrans in reviews of all submittals regarding floodplain administration and allow for Caltrans to comment prior to the Conditional Letter of Map Revision (CLOMR) application or the Permit issue, to assure that Caltrans' assets are not adversely impacted by any change in the water surface elevation resulting from this project. In addition, per 44 CFR §65.12, Caltrans requests that a formal notification be sent to Caltrans when the City of San Diego and the City of Santee approves the permit to alter the floodway/floodplain and/or when the Developer applies for the CLOMR and Letter of Map Revision (LOMR).

### **System Planning**

Please be aware of the following:

1. [2021 Regional Transportation Plan](#) (Appendix A: Transportation Projects, Programs, and Phasing):
  - Review Table A.3. State Route 125 table. The following projects should be taken into consideration for the Carlton Oaks Golf Course Clubhouse and Resort project.

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<sup>1</sup> California Governor's Office of Planning and Research (OPR) 2018. "Technical Advisory on Evaluating Transportation Impacts in CEQA." [https://opr.ca.gov/docs/20190122-743\\_Technical\\_Advisory.pdf](https://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf)

- a) CC043: SR-125 (Amaya Drive to Mission Gorge Road)
    - b) TL033: Rapid 292 Phase 2 (Pacific Beach to Otay Mesa via Kearny Mesa, El Cajon, Jamacha, and Otay Lakes) (full version of Rapid)
  - Review Table A.8. Coast, Canyons, and Trails table. The following projects should be taken into consideration for the Carlton Oaks Golf Course Clubhouse and Resort project.
    - a) AT009: San Diego River Trail - Carlton Oaks Segments
    - b) AT061: San Diego River Trail - Mast Park to Lakeside Baseball Park
    - c) AT065: Santee - El Cajon Corridor - Forester Creek Connection
    - d) AT120: SR-52 Bikeway- SR-52/Mast Drive to San Diego River Trail
    - e) CC030: SR-52 (I-15 to Mast Boulevard)
    - f) CC031: SR-52 (Mast Boulevard to SR-125)
    - g) TL50: Rapid 870 (El Cajon to UTC via Santee, SR-52, I-805)
    - h) TL51: Rapid 890 (El Cajon to Sorrento Mesa via Santee, SR-52, I-805)
  - Review Transit Leap Frequency and Span of Service table. The following project should be taken into consideration for the Carlton Oaks Golf Course Clubhouse and Resort project.
    - a) Local Bus 834: Santee Town Center-West Santee - will see a continued span of service by 2050.
  - Near El Cajon Mobility Hub
2. [SR 52 Coast, Canyons, and Trails Comprehensive Multimodal Corridor Plan](#) (CMCP) will provide more specific information regarding the Carlton Oaks project area.
- Appendix B: Existing and Future Conditions
    - a) Population and Employment: Moderately dense demographic areas include La Jolla, North Clairemont, Winter Gardens, and Santee...The biggest increases in population growth in the Coast Canyon Trails (CCT) area will be in Kearny Mesa, El Cajon, & Santee.
  - Appendix D: Transportation Solution Strategies
    - a) CC03: Convert 2 general purpose lanes to 2 managed lanes and add 1 reversible from I-15 to Mast Boulevard.
    - b) CC04: Add 2 managed lanes and 1 reversible from Mast Boulevard to SR-125.
    - c) CC09: Complete Corridor: MLC SR-52 (SR-125) – from SR-125 to SR-52.
    - d) CC18: Convert general purpose lanes and/or shoulder/parking to flex lane from SR-52 to Boulder Vista.
    - e) CC19: Mission Gorge Road Flex Lane – Convert general purpose lanes and/or shoulder/parking to flex lane, from SR-52 to Cuyamaca Street.

- f) CC74: SR 52 HOV Policy – Create a HOV 3+ policy change when managed lanes are utilized at their target capacity (LOS C), from I-15 to SR-125.
- g) CC85: Add a Direct Access Ramp (DAR) at SR-52 to Mast Boulevard.
- h) CC123: Mission Gorge Road Class 1 Bike Path – SR-125 to Carlton Hills Boulevard.
- i) CC134: Fanita Parkway Class 1 Bike Path – Carlton Oaks Drive to Mission Gorge Road.
- j) CC137: Carlton Hills Boulevard Class II Bike Lanes – Lake Canyon Road to Swanton Drive.
- k) CC159: Pedestrian Hybrid Beacon at Forrester Creek Trail/Mission Gorge Road.
- l) MH39: Mobility Hub Major Node 8- Santee Town Center (Multilingual wayfinding, real-time information, and interactive kiosks).
- m) NO23: Next OS – Emergency Response and Other Data (Emergency situations and incidents can significantly impact mobility along key portions of the corridor (e.g., open spaces susceptible to wildfires, etc.) that could limit capacity and impact transit services, truck routing, etc.)
- n) NO43: Next OS – ATM 4 – Variable Speeds & All Lanes Running SR-52 from Mast Boulevard to Cuyamaca Street.

3. [CAPTI: Climate Action Plan for Transportation Infrastructure](#)

- Guiding Principles: Promoting compact infill development while protecting residents and businesses from displacement by funding transportation projects that support housing for low-income residents near job centers, provide walkable communities, and address affordability to reduce the housing-transportation cost burden and auto trips.
- Strategy S7: Strengthen Transportation – Land Use Connections
  - a) S7.1 Leverage Transportation Investments to Incentivize Infill Housing Production.
- Executive Order (EO) N-19-19: CalSTA to direct investments to strategically support smart growth to increase infill housing.

4. [CTP 2050: California Transportation Plan 2050](#)

- Recommendations:
  - a) 3. Expand access to jobs, services, and education.
  - b) 8. Advance zero-emissions vehicle (ZEV) technology and supportive infrastructure.
    - o 6. Coordinate with local land use authorities to support ZEV charging at residential developments, job centers, and public buildings.

- c) 11. Encourage efficient land use.
- d) 12. Expand protection of natural resources and ecosystems.

5. Upcoming Proposed Projects:

- [MTS Copper Line](#) that will serve the El Cajon Transit Center to the Santee Trolley Station.
- [Town Center Specific Plan – Notice of Preparation:](#)
  - a) 2019 Update: Establish an Art & Entertainment Overlay District to support tourism and attract commercial, educational, and recreational uses that beautify and enliven portions of the Town Center.
  - b) 2021 Update: City Council adopted Sixth Cycle Housing Element, included 4 large strategic housing sites, analyzed programmatically within Sixth Cycle Housing Element EIR.
  - c) Current update: comprehensive update to TCSP to modify or establish new land use designations, land uses, development standards, conceptual guidelines that apply to future development within TCSP area.
    - Updated allowable and permitted land uses and development standards tailored to the project area.
    - Update circulation network exhibits (bicycle, pedestrian, transit network maps, street cross sections); key improvements in public R/W.
- [City of Santee – Land Use Element:](#)
  - a) The Carlton Oaks Country Club property will be developed according to a master development plan, consistent with the below Guiding Principles.
    - 1. The development of the Carlton Oaks Country Club property should focus on mixed use recreation-related development, which is oriented towards, and enhances the San Diego River, and is related to other recreation areas within the City.
    - 2. The property should be focused on a high-quality resort and recreation-related uses. Any residential uses should be accessory and related to the primary recreation use.
- [East Elliot Community Plan:](#)
  - a) Proposals:
    - 5. Construct the San Diego River Park Pathway from Calton Oaks Golf Course, extending west under West Hills Boulevard and SR 52, to connect to Mission Trails Regional Park trail system.

6. Public Transit:

- MTS Route 834 (West Santee Loop)
  - a) West Hills Parkway and Carlton Oaks Drive
    - Consider adding bus shelter/bench and widening sidewalk.
  - b) Carlton Hills Boulevard and Carlton Oaks Drive
    - Consider adding a bus shelter.

**Complete Streets and Mobility Network**

Caltrans views all transportation improvements as opportunities to improve safety, access and mobility for all travelers in California and recognizes bicycle, pedestrian and transit modes as integral elements of the transportation network. Caltrans supports improved transit accommodation through the provision of Park and Ride facilities, improved bicycle and pedestrian access and safety improvements, signal prioritization for transit, bus on shoulders, ramp improvements, or other enhancements that promotes a complete and integrated transportation network.

To reduce greenhouse gas emissions and achieve California's Climate Change target, Caltrans is implementing Complete Streets and Climate Change policies into State Highway Operations and Protection Program (SHOPP) projects to meet multi-modal mobility needs. Caltrans looks forward to working with the City to evaluate potential Complete Streets projects.

Bicycle, pedestrian, and public transit access during construction is important. Mitigation to maintain bicycle, pedestrian, and public transit access during construction is in accordance with Caltrans' goals and policies.

**Land Use and Smart Growth**

Caltrans recognizes there is a strong link between transportation and land use. Development can have a significant impact on traffic and congestion on State transportation facilities. In particular, the pattern of land use can affect both local vehicle miles traveled and the number of trips. Caltrans supports collaboration with local agencies to work towards a safe, functional, interconnected, multi-modal transportation network integrated through applicable "smart growth" type land use planning and policies.

The City should continue to coordinate with Caltrans to implement necessary improvements at intersections and interchanges where the agencies have joint jurisdiction.

## **Noise**

The applicant must be informed that in accordance with 23 Code of Federal Regulations (CFR) 772, Caltrans is not responsible for existing or future traffic noise impacts associated with the existing configuration of SR-52.

## **Aeronautics**

One of the goals of the Caltrans Aeronautics Program, is to assist cities, counties, and Airport Land Use Commissions or their equivalent (ALUC), to understand and comply with the State Aeronautics Act pursuant to the California Public Utilities Code (PUC), Section 21001 et seq.

The proposed Project is located in the Review Area 2 of the Gillespie Field Airport, established by the San Diego County Regional Airport Authority serving as the ALUC for San Diego County pursuant to Section 21675(c). Therefore, the proposed project shall adhere to the safety and land use criteria and restrictions defined in the Airport Land Use Compatibility Plan (ALUCP) formed by the ALUC pursuant to the PUC, Section 21674 and Section 21676 and is subject to review authority by the ALUC.

The Review Area 2 land use actions outlined in the ALUCP should be reviewed to determine if the project is subject to ALUC review. Particularly due to the redevelopment of the golf course and other uses that may cause a hazard to flight. Review Area 2 is also subject to airspace limitations, particularly in areas of high terrain and overflight notification areas. Proposed structures that exceed FAA Regulations Part 77 height criteria are subject to an Obstruction Evaluation/Airspace Analysis for determination.

Compatibility concerns regarding airport obstructions and hazards to flight (such as wildlife attractants, lighting, or glare i.e., solar, etc.) should also be considered for further review upon site specific updates or projects.

## **Environmental**

Caltrans welcomes the opportunity to be a Responsible Agency under the California Environmental Quality Act (CEQA), as we have some discretionary authority of a portion of the project that is in Caltrans' R/W through the form of an encroachment permit process. Please indicate our status as a Responsible Agency for the Final Environmental Document. We look forward to the coordination of our efforts to ensure that Caltrans can adopt the alternative and/or mitigation measure for our R/W. We would appreciate meeting with you to discuss the elements of the Environmental Document that Caltrans will use for our subsequent environmental compliance.

An encroachment permit will be required for any work within the Caltrans' R/W prior to construction. As part of the encroachment permit process, the applicant must provide

approved final environmental documents for this project that include the work in Caltrans' R/W, corresponding technical studies, and necessary regulatory and resource agency permits. Specifically, CEQA determination or exemption. The supporting documents must address all environmental impacts within the Caltrans' R/W and address any impacts from avoidance and/or mitigation measures.

We recommend that this project specifically identifies and assesses potential impacts caused by the project or impacts from mitigation efforts that occur within Caltrans' R/W that includes impacts to the natural environment, infrastructure including but not limited to highways, roadways, structures, intelligent transportation systems elements, on-ramps and off-ramps, and appurtenant features including but not limited to fencing, lighting, signage, drainage, guardrail, slopes and landscaping. Caltrans is interested in any additional mitigation measures identified for the project's draft Environmental Document.

#### **Right-of-Way**

- There is one monument on the Caltrans' R/W. Since the rear set back is determined by the R/W, please confirm it has been properly surveyed.
- Per Business and Profession Code 8771, perpetuation of survey monuments by a licensed land surveyor is required, if they are being destroyed by any construction.
- Any work performed within Caltrans' R/W will require discretionary review and approval by Caltrans and an encroachment permit will be required for any work within the Caltrans' R/W prior to construction.

Additional information regarding encroachment permits may be obtained by contacting the Caltrans Permits Office at (619) 688-6158 or emailing [D11.Permits@dot.ca.gov](mailto:D11.Permits@dot.ca.gov) or by visiting the website at <https://dot.ca.gov/programs/traffic-operations/ep>. Early coordination with Caltrans is strongly advised for all encroachment permits.

If you have any questions or concerns, please contact Mark McCumsey, LDR Coordinator, at (619) 985-4957 or by e-mail sent to [mark.mccumsey@dot.ca.gov](mailto:mark.mccumsey@dot.ca.gov).

Sincerely,

*Kimberly D. Dodson*

KIMBERLY D. DODSON, GISP  
Branch Chief  
Local Development Review





# San Diego County Archaeological Society, Inc.

Environmental Review Committee

June 28, 2024

**RECEIVED**

JUL 1 2024

Dept. of Development Services  
City of Santee

To: Ms. Christina Rios, Senior Planner  
Planning and Building Department  
City of Santee  
10601 Magnolia Avenue  
Santee, California 92071

Subject: Notice of Preparation of a Draft Environmental Impact Report  
Carlton Oaks Country Club and Resort Project  
TM 2019-1, P2019-6, DR 2019-5, AEIS 2019-7

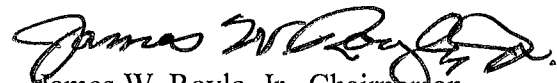
Dear Ms. Rios:

Thank you for the Notice of Preparation for the subject project, which was received by this Society earlier this month.

We are pleased to note the inclusion of cultural resources in the list of subject areas to be addressed in the DEIR and look forward to reviewing it during the upcoming public comment period. To that end, please include us in notification of the public review of the DEIR and ensure availability of a copy of the cultural resources technical report(s) that has been edited for public distribution.

SDCAS appreciates being included in the environmental review process for this project.

Sincerely,

  
James W. Royle, Jr., Chairperson  
Environmental Review Committee

cc: SDCAS President  
File

**From:** [info@sandiegoriver.org](mailto:info@sandiegoriver.org)  
**To:** [Christina Rios](#)  
**Cc:** [rhutzel@sandiegoriver.org](mailto:rhutzel@sandiegoriver.org)  
**Subject:** Comments: Notice of Preparation Carlton Oaks Country Club and Resort Project  
**Date:** Sunday, July 7, 2024 6:11:40 PM

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To: Christina Rios, Senior Planner Planning & Building Department  
City of San Diego

RE: NOP for Carlton Oaks Country Club and Resort Project  
TM 2019-1, P2019-6, DR 2019-5, AEIS 2019-7

Thank you for the opportunity to provide our thoughts on important items to be consider in the preparation of a draft EIR for this project. We appreciate the importance of obtaining input from interested parties.

We are a nonprofit organization that has for more than 20 years pursued celebrating our region's namesake river and to improve its overall condition. During that time we have working with the City of Santee to advance the vision of a river long park and trail system while enhancing and protecting the river's rich biodiversity. It is my understanding that approximately 64.6 acres of the project in the City of San Diego impacting land that is currently leased from the City of San Diego.

We encourage the preparers of the draft EIR to consider the following:

1. How will this proposed project impact the terms of the City of San Diego lease with the current property owners? As part of the most recent lease approval, there was extensive community engagement. This included requiring the provision of public non-motorized trail on the west and east end of this proposed project. These agreements extended beyond the City of San Diego owned property and into the City of Santee. This agreement also provided for the regional San Diego River Trail (a non-motorized multi-use pathway on the southerly edge of the current golf course).
2. The City of San Diego has approved a San Diego River Park Master Plan. Any property, including changes to the current golf course, would need to be consistent with this legal document. The draft EIR should study this as it relates to the proposed project. As the project is seeking a Site Development Permit from the City of San Diego, consistency with the SDRPMP will be required.
3. The proposed project includes significant fill of the alluvial area at the west end and adjacent to West Hills Parkway. We request that this proposed action be studied to analyze the impact this will have on the hydrology of the river, especially during flood conditions. This study should include an analysis of the impact of the planned San Diego River Trail alignment. The current location of this regional bikeway is on an dirt berm. The fill and the resulting modification to the flood flows is likely to impact the viability of this berm. What will be the cost (construction and longterm maintenance) added to complete this section of the San Diego River Trail? This study should be expanded to a geomorphology and underlying soils study to understand the impacts on the health of the river and its ecosystem and sand/soil transport/equilibrium.
4. The expansive addition of housing at the west end will create additional noise, lighting

and other impacts on the sensitive habitat associated with the San Diego River. What design modifications would lower this to below a significant level.

5. The area of the golf course contains a historic flood channel of the San Diego River and should be considered a wetland. Within the City of San Diego section, this should be studied to determine the current and historic wetland delineation by federal, state and City of San Diego definitions. A detailed historic analysis should be done for the proposed development within the City of Santee as well.

6. If any wetlands is disturbed, what mitigation opportunities for enhancement and wetland creation are available in the immediate area (rather than a wetland mitigation bank at a separate location).

7. This analysis should consider the possibility that at some point in the future the City of San Diego might not allow a golf course to continue on its property. The ramifications to the design and economics of this potential outcome should be included in the studies for the draft EIR.

8. An alternative should be considered where a road does not extend from West Hills Parkway to the proposed hotel and clubhouse. This would be a reasonable alternative to reduce the development footprint of the project.

9. With climate change and the condition of the upstream El Capitan Reservoir, a detailed analysis should be included that considers a partial or complete failure of this structure. This study should include an analysis of the work case scenario of a dam failure during a significant rain event so that soils are saturated and floodflows are already present.

10. What will be the impact on groundwater of the proposed development? Groundwater is an important public water source.

11. What impact will the proposed redesign of the golf course have on the planned San Diego River Trail. The River Trail has been studied as part of a SANDAG project.

12. What impact will the proposed redesign of the golf course have on wildlife in the San Diego River Corridor? Will any impacts result due to increase of use, revised/new activity areas which generate noise or trash, and lighting impacts.

13. The San Diego River is considered a resource of statewide significance. There should be no net loss of wetlands. It is important that studies for the draft EIR fully analyze any impacts and what alternatives are available to reduce them.

14. The project as proposed should analyze the impact on the planned San Diego River Trail including the connection downstream to Mission Trails Regional Park and upstream to Mast Park.

15. The San Diego River is an impaired water body. Any infrastructure should analyze treatment and containment of pollution carried by runoff and how this project can help improve water quality in the river. It appears to be proposed that drainage will continue to go directly to the river. What treatment infrastructure will be designed? What maintenance will be required? Is this proposed to be done by a HOA or other private entity?

16. This project should consider impacts on air pollution for the wildlife that lives along the river as well as people that will be enjoying the planned San Diego River Park. With the vicinity of SR52, Mission Gorge Road and West Hills Parkway, cumulative impacts to air pollution should be analyzed and mitigation measures should be proposed that benefit the immediate area.

17. This proposed project should analyze the public park and recreation needs generated by the proposed residential units. Currently this land is used as recreation (private), the loss of this land use should be analyzed. Can improvements to the regional San Diego River Trail or other public recreation opportunities in the immediate area be included in the design?

18. It has been reported that previously golf course operations have included discharging of water into the river to address flooding or ponding on the golf course. The operations and maintenance of the golf course should be included in the study to better understand potential impacts on the sensitive biological resources.

19. Endangered and threatened species have been documented in this area. Biologically studies, especially for avian species should be conducted during the appropriate season.

20. What impact will the proposed fill of floodplain areas be on high water refugia for wildlife? When the river is elevated wildlife such as bobcat, deer, rodents need safe, dry places. How much will this project impacts those current areas?

Thank you for the opportunity to share these comments.

Please make sure that we receive all public notices about this project. We look forward to being active as this project advances.

Rob Hutsel  
President and CEO  
San Diego River Park Foundation

Engaging people to create a better future for the San Diego River and our region.  
[www.sandiegoriver.org](http://www.sandiegoriver.org)  
619-297-7380

## TREVISO HOMEOWNERS ASSOCIATION

8400 N. Magnolia Avenue, Suite F, Santee, CA 92071 858-514-8820

July 8, 2024

Christine Rios, Senior Planning  
Planning & Building Department  
10601 Magnolia Avenue  
Santee, CA 92701

[crios@cityofsantee.ca.gov](mailto:crios@cityofsantee.ca.gov)

Regarding: Proposed Project- Carlton Oaks Country Club and Resort Project

Dear Miss Rios,

The Treviso Condominium Complex is 186 individually owned residential units located in the City of Santee at the corner of West Hills Parkway and Mission George Road and is within the sphere of influence and offsite impact areas of the proposed Carlton Oaks Golf Resort and Lennar Home Project.

On June 25, 2024, at the Public Scoping Meeting for the project, the Treviso Homeowners Association President, Lisa Meyer, and an additional homeowner, Peter Schiff, were in attendance to learn more about the project and voice some of our communities initial concerns. Enclosed below are some of our Associations concerns and items we are formally requesting to be included as part of the Environmental Impact Report (EIR) and subsequent consideration for the proposed project.

### **High Pressure Gas Line**

There is an existing High Pressure Gas Line that runs along-side/under West Hills Parkway, the River Bed, 52 freeway, The Treviso Complex, and possibly near the proposed Residential West Entrance and West Housing Development of this new project. There are warning signs the length of West Hills Parkway and a portion the line is visible from the side walk. It is possible that it is also located on City of San Diego Property. For the safety of all residents in the area, the EIR must include detailing mapping of where the High Pressure Gas Line is located and all necessary precautions to ensure there is no impact on this existing line before, during, and after construction of the proposed project.

## **Rodent/Pest/Wildlife Infestation & Dirt/Dust Impact**

Our experience has been when there has been significant construction in the vicinity of our development we have seen a dramatic increase in rodent activity and dirt/dust in and around our complex. As detailed by the builder representative, this project is proposing a significant amount of dirt being disrupted/moved at multiple stages in the construction project. A mitigation plan must be included in the planning and construction of the proposed development. The mitigate plan should include ways to stop such pest infestations and dirt from reaching other residents/developments as well as support to surrounding impacted residents/developments so that they do not have to take on the burden of paying for additional pest control and cleaning.

## **Wild Fire Mitigation & Emergency Evacuation**

The threat of destructive fires in our community and the City of Santee is a concern and we want an effective mitigation plan included that protects the surrounding areas. The proposed community will be either in or surrounded by a High Wildfire Risk area. Past efforts to engage the City of San Diego and the Mission Trails Regional Park personnel to help reduce fire risks in the area have proven fruitless. Therefore, it is imperative, as part of this project, significant steps be taken to mitigate fire hazards and harden the area against future fire events. Growth in the riverbed and surrounding areas must be managed and maintained in a manner that will dramatically reduce the threat of a significant fire risk.

Evacuation access during a wildfire is of great importance to residents of our community and the City of Santee. As part of EIR, analysis should be completed that our current roads can support the additional vehicles and residents leaving the area as well as access for emergency personnel during evacuation. A formal evacuation plan should also be considered.

## **Traffic & Road Maintenance**

While the project does propose to widen a portion of West Hills Parkway to accommodate a new left hand turn lane, there is no mention of how to

accommodate the increase of traffic on West Hills Parkway, Mission Gorge Road, and Mast Blvd. These streets are already extremely backed up with vehicle traffic, especially during morning traffic. As part of the EIR, we are requesting that traffic on these streets are studied in whole and specifically during “morning rush hour” of 6am-9am both while local schools and colleges are in session and during breaks/holidays. The study should include if it is feasible to have extended construction/road closures during construction, additional vehicle traffic once the project is complete, ensure that emergency vehicles can access/travel the roads during and after construction, and if it would be safe for vehicles to make a left-hand turn across West Hills Parkway (without the installation of a traffic light) into the proposed new residential west entrance.

The upkeep of West Hills Parkway and Mission Gorge Road are marginal at best. We frequently have to contact both the City of San Diego and City of Santee when repairs to the road required (pot holes, street light outages, etc.) Because of the jurisdiction lines, repair requests are often closed by both agencies stating that it is the other cities responsibility to maintain and repair. Increased traffic will just exacerbate the problem, unless surface conditions are greatly improved. We are requesting as part of this project improvements to the surrounding streets are completed and a regularly scheduled maintenance plan is created and implemented.

### **Riverbed Impact**

The existing river bed and golf course area are located in a flood area. As part of the EIR, analysis should be completed that the proposed changes to the property and or riverbed do not increase the risk of flooding to surrounding properties.

### **Noise**

Due to the projects lengthy multi-year proposed construction time-frame and being close to the existing Treviso Development, we are concerned about construction noise emanating from the project and impacting our homeowners and community. The EIR should include analysis of the increase in noise to surrounding residents and residents in the Treviso Community and include mitigation plans, time restrictions, and direct contact information of concerns during construction.

### **Emergency Service Resources– Sheriff and Fire**

With the building of an additional 242 residences in the proposed project. The necessary addition of emergency service resources (personnel, budget, equipment) should be studied and provided to our local first responders.

The City of Santee and the adjacent river bed do have a number of unhoused residents currently residing in these areas. With the changes to the golf course property and development of new access trails, Sheriff and Fire resources should be increased to ensure the safety of all residents and visitors of Santee.

Thank you for your consideration and attention to our enclosed concerns.

Future communications and any responses to the above concerns and additional issues should be directed to the Treviso Homeowners Association, C/O Hudson Management Services, 8400 Magnolia Ave STE F, Santee, CA 92071.

Respectfully,

Lisa Meyer, on Behalf of the Treviso Homeowners Association Board of Directors



**From:** [Christine Tolchin](#)  
**To:** [Christina Rios](#); [crios@cityofsantee.ca.gov](mailto:crios@cityofsantee.ca.gov)  
**Subject:** Public comment for Carlton Oaks Country Club and Resort Project  
**Date:** Monday, July 8, 2024 8:52:53 AM

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7/8/2024

Christina Rios, Senior Planner

Planning & Building Department

City of Santee  
Planning Department  
10601 Magnolia Avenue  
Santee, CA 92071

Subject: Public Comment on the Notice of Preparation of a Draft EIR for the Carlton Oaks Country Club and Resort Project

Dear Planning Department,

I am writing to express my concerns regarding the Notice of Preparation (NOP) for the Draft Environmental Impact Report (EIR) for the Carlton Oaks Country Club and Resort Project. As a concerned resident, I have significant reservations about the proposed addition of fill into the floodplain to accommodate housing in the San Diego River on the Residential West portion of the project. My primary concerns are outlined below:

1. **Increased Impervious Surfaces:** Adding housing in the floodplain will substantially increase impervious surfaces, leading to hydromodification. This change will alter the natural flow patterns of the San Diego River and Forrester Creek, potentially causing long-term adverse effects on these water bodies and surrounding community.
2. **Constricted Flows:** The proposed project will constrict the flow of the San Diego River and Forrester Creek, thereby increasing downstream erosion and the likelihood of flooding in the community. Such a development places more people at risk of flood damage and impacts from climate change.
3. **Community Flood Risk:** By increasing the community's chances of flooding, the project puts additional lives and properties at risk. In the long term, this will make the City more liable for assisting the community in dealing with future impacts due to flooding.
4. **Groundwater Recharge:** The loss of infiltration space resulting from the project will reduce the area's ability for groundwater recharge. This is a critical function, especially in a region prone to drought, and the loss of this capacity could have significant long-term repercussions on water availability.
5. **Water Quality:** The San Diego River is already listed as an impaired water body under section 303(d) of the Clean Water Act. Additional development in the floodplain will further degrade water quality, exacerbating existing issues and potentially leading to additional non-compliance with water quality standards.
6. **Impact on Park Land:** The project will negatively affect the City of San Diego and County of San Diego owned park land, specifically Mission Trails Regional Park. By

concentrating and increasing flow velocity during peak storm events, the project could lead to increased erosion and damage to park lands and surrounding infrastructure.

7. **Long-term Maintenance:** The development will necessitate perpetual maintenance and improvement of stormwater infrastructure and best management practices (BMPs) to manage clean flows and mitigate flooding risks. This represents an ongoing financial liability for the City and its residents.

Given these concerns, I urge the City of Santee to reconsider the proposed Residential West portion of the project within the floodplain. Alternative solutions should be explored that do not involve increasing flood risks, degrading water quality, or placing additional burdens on the community and its infrastructure.

Thank you for considering my comments. I trust that the City will take these concerns seriously and act in the best interests of its residents and the environment.

Sincerely,

Christine  
Christine A. Tolchin  
8189 Califa Court  
San Diego, CA 92119  
[Christine@Tolchin.net](mailto:Christine@Tolchin.net)  
619-890-7109

June 28, 2024

Christina Rios, Senior Planner  
Planning & Building Department  
10601 Magnolia Ave,  
Santee, CA 92071

RECEIVED

JUL 01 2024

Dept. of Development Services  
City of Santee

RE: NOTICE OF PREPARATION, CARLTON OAKS PROJECT

Dear Christina Rios,

I am writing to voice my concern for the proposed Carlton Oaks Country Club & Resort Project. I have many concerns for the additional traffic, additional children attending the already crowded schools and our grocery stores. In the mornings we have difficulty turning from our street onto Carlton Oaks drive because the traffic is backed up waiting to gain access to the 52 freeway. Our schools have already felt the impacts from the homes added in the recent years and now you propose to add even more burden on them with additional residential areas. Then we address the chaos at the grocery stores, the lines are unrelenting and with more people moving into this new area you are proposing we will only feel more frustration from the crowding. Isn't it time to take a long hard look at what might be best for our communities and look for some relief to the already over-crowded areas before adding to them? The report addresses widening West Hills Parkway to allow for a left turn lane into the west residential development. Just as we were promised additional traffic relief when the homes were built across from West Hills off Mast, this is not a solution to the surface streets surrounding this project. The project is being built in a riverbed, "Once a River, Always a River". Putting drainage and building up the ground area can only divert a portion and with the rains increasing yearly, this can only mean disaster. The residents in Santee are fed up with all this project planning that doesn't give proper attention to the overall picture. Let's get to the proper perspective of what this community needs and what is best for US as residents. I've lived here since 1972 and never have I had such ill feelings for the growth initiatives as I have with this latest proposal. When is enough ENOUGH?

Thank you for your time and consideration to my concerns.

Respectfully Submitted:

Jeanette Salyer-Morris   
8401 DeVos Dr. Santee,

619 449-6939

## Preserve Wild Santee

July 1, 2024

Christina Rios, Senior Planner  
10601 Magnolia Avenue  
Santee, CA 92071  
Via Email: [crios@cityofsanteeca.gov](mailto:crios@cityofsanteeca.gov)

**RE: Carlton Oaks Country Club and Resort Project, TM 2019-1, P 2019-6,  
DR 2019-5, AEIS 2019-7**

Dear Ms. Rios,

The development of two large housing tracts is not “accessory” and is inconsistent with the existing Santee General Plan. The grading of the open floodplain is also inconsistent with direction to protect the river environment, riparian habitat and species.

Specifically:

“The property should be focused on a high-quality resort and recreation use. **Any residential use should be accessory**, and related to the primary recreation use.”  
[Santee General Plan, Land Use Element, Carlton Oaks Country Club  
Guiding Principle # 2]

**“Development should protect the river environment, including protection of the riparian habitat and protected species.”** [Guiding Principle #5]

In addition to the No-project Alternative, please prepare an Alternative consistent with the Santee General Plan, which eliminates the Residential North and Residential West housing tracts.

Please prepare another Alternative that limits development to disturbed portions of the site, avoids the flood plain and limits residential housing to Low-Medium Density Residential (R2) that is “accessory” to the recreational resort consistent with the Santee General Plan.

Please research other issues discussed below in the Environmental Impact Report.

The project proposes to place new homes in a flood plain. As energy is increasingly trapped by the human altered atmosphere, extreme weather events are becoming common. How will one hundred year and 1000-year flood events impact project residents?

The flood channel is also becoming a conduit for wildfire during drought years. The EIR should consider feasibility evacuation for both new and existing residents under worst-case scenarios from multiple ignition points.

The proposed density of the project appears to be inconsistent with the general plan (R2) zone described in the NOP. Please explain why a general plan amendment is currently not part of the process.

The EIR should clarify the status of Santee General Plan Protection Measure N enacted by Santee resident voters in 2020. How is the city implementing Measure N? Where has the measure been inserted into the text of the general plan?

The project proposes to increase the density of the site to the extent a general plan amendment should be processed. Please explain how the project will or will not be consistent with Santee General Plan Protection Measure N enacted by Santee resident voters in 2020.

What are the biological impacts of the project? The City does not have a MSCP Subarea Plan.

Will the project impact any coastal sage habitat? The City exceeded its "Interim Take Allowance" of coastal sage habitat circa 2003 with approval of Sky Ranch on Rattlesnake Mountain. What is the current status of Santee's "draft" MSCP subarea plan?

How will the project impact views of the golf course and park/open space from the homes of existing residents?

Is the project housing proposed for annexation into Santee? Who is responsible for providing police and fire service to the new residents? How will new streets and public infrastructure be maintained?

The San Diego River is considered an impaired water body. How will the project impact the SD River?

Who is the actual applicant and owner for this project site? The San Diego River Conservancy has the first right of refusal before any riparian habitat is sold to a housing developer. What is the position of the State Conservancy on potential purchase of acreage proposed for housing tracts?

What are the impacts to Mission Trails Park and to Scenic Highway 52?

Proposed multi-story housing would impact the primary views and amenity of existing adjacent residents. How will the existing residents be compensated for reduced property values?

Thank you for consideration of my comments,

/s/

Van Collinsworth

Director

