

# **APPEAL APPLICATION FORM** – APPEAL TO CITY COUNCIL

City Clerk's Office | 835 East 14th Street, San Leandro, CA 94577 | (510) 577-3367

General Info - Decisions of the Planning Commission may be appealed to City Council.

**Deadline to File** – This appeal application must be submitted within fifteen (15) calendar days of the decision, and within ten (10) calendar days of a Tentative Map approval. If the appeal period ends on a weekend or holiday, the appeal period ends the next business day.

**Fees** – An appeal by the project applicant requires either a Planning Deposit (if the appeal is made by the project applicant) or a fixed Planning Fee (if the appeal is made by any other party). Planning fees also includes a tech fee. Appeals are also subject to a City Clerk Fee. Credit/Debit Card fees apply, if any fees are paid by credit/debit card.

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  - a) Payment for Planning and City Clerk appeal fees
  - b) Signed and completed Appeal Application Form (front side).
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- Check in at the Permit Center on the 1<sup>st</sup> floor and indicate you are filing an appeal. A
  planner will assist you in verifying your appeal application is complete.
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- 4) Planning staff will escort you to the City Clerk's Office, at 835 E 14th St, 2<sup>nd</sup> floor to complete the process. Do not go directly to the City Clerk's Office.

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DATE RECEIVED: CEIVED	1
FEB 2 0 2025	
CITY CLERK'S OFFICE	*
APPEAL RECEIVED BY:	
CITY CLERK FEE RECEIPT NUMBER:	
FY 2024-2025 City Clerk fee amount: \$556.00.	
PLANNING FEE RECEIPT NUMBER:	
DEPOSIT (FY 2024-2025 amount: \$5,000)	
☐ FIXED FEE (FY 2024-2025 amount \$604.13)	
☐ TECH FEE (FY 2024-2025 amount: 6% of fees)	
AGREEMENT FOR PAYMENT OF PLANNING ☐ SIGNED ☐ NOT REQUIRED	FEES:
CC: PLANNING CAO FINANCE	

I wish to appeal the decision of the Planning Com	mission.
I am: The Project Applicant (fill out back side too)	A Business Owner Other: ACCHEUED PARTY
The decision I am appealing was made on: 2/6/2025 (date decision was made)	and the decision was to Approve Deny the project below:
Project Number: Project Address (or API	N if address has not been issued):
PLN 2 2 _ 0 0 3 9 880 DOOLT	TLE DA.
Reasons for Appeal (List all grounds relied upon in make	ring this appeal. Attach additional sheets if necessary.)
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THE EIR AND ADOPTING THE ST	
CONSIDERATIONS, APPEAL JUST	TIFICATION LETTEL ATTACHED.
DEAN WALLKASE, ADVOCATES A	FOR THE ENVIKUNMENT
Mailing Address:	Phone Number:
10211 SUNCEND BLUD	(818) 650-0030 X/01
SHADON HUS CA 91040	Email:
City State Zip	DWO AENV. ORG
Signature of Appellant: Multiple	Date Signed:
CX VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	417120

February 14, 2025

# **Advocates for the Environment**

City Clerk's Office San Leandro City Hall 835 E 14th Street San Leandro, CA 94577 A non-profit public-interest law firm and environmental advocacy organization



Via in-person submission to the City Clerk's Office

Re: Appeal Justification for PLN 22-0039, 880 Doolittle Drive Industrial Project, SCH No. 202311059

Dear City Staff:

Please consider this letter as a formal notice and request for an appeal to the City Council of the Planning Commission's decision on February 6, 2025 to approve the 880 Doolittle Drive Industrial Project (**Project**) and certify the Environmental Impact Report (**EIR**) for the Project. The Project Site is located near Davis Street and Doolittle Drive in the City of San Leandro (**City**). The Project proposes to develop the 14.14-acre Project Site by constructing a 244,573 square-foot warehouse.

Advocates for the Environment submits the comments in this letter to provide specific reasons why the Project's Environmental Determination, including the Greenhouse-Gas (GHG) analysis, was legally inadequate and not in compliance with the California Environmental Quality Act (CEQA). The Planning Commission abused its discretion in approving the Project because the City violated CEQA by failing to include sufficient mitigation of the Project's significant GHG impact.

# **Background and Interest of Advocates for the Environment**

Advocates for the Environment is a non-profit public-interest environmental law firm and advocacy organization, and part of its mission is to use appropriate legal tools to reduce GHG emissions of development projects. We reviewed the EIR prepared in June 2024, and submitted comments regarding the sufficiency of the EIR's GHG analysis on July 29, 2024. We also reviewed the Final EIR which was prepared in January 2025, which we provided further comments on in our letter dated February 4, 2025. During the public hearing on February 6, 2025 at the City of San Leandro Planning Commission, the Project was approved.

The Commission determined that other factors outweighed the Project's environmental impact and approved the Project with a statement of overriding considerations. Yet, this decision was erroneous and an abuse of discretion because the City did not require mitigation of the significant GHG impact to the extent required by CEQA.

# **Rationale for Appeal**

The Planning Commission should not have approved this Project because the EIR violates CEQA. CEQA requires lead agencies to mitigate significant environmental impacts to the extent feasible when adopting a statement of overriding considerations. The City's determination that further mitigation would be infeasible is not supported by substantial evidence.

# **GHG Mitigation Measures were Insufficient Under CEQA**

The original Draft EIR did not include any mitigation measures. Based on the comments on the Draft EIR, the City added mitigation measure GHG-1 as a new mitigation measure to the Final EIR. Mitigation measure GHG-1 is as follows:

The building and its appliances (space heating, hot water heating, office cooking facilities, etc.) shall be all electric. Natural gas plumbing shall be permitted, activated and operated only for specific industrial or manufacturing processes that require natural gas as a critical component to that process or processes. The final site plans shall note that building appliances must be all electric. Building tenants shall be made aware of the restricted use of natural gas through language in the leasing and/or deed documentation.

(Final EIR, p. 41.)

The City proposes this mitigation measure as the maximum feasible mitigation for the Project's significant and unavoidable GHG impact. However, this mitigation measure is vague, unenforceable, and improperly deferred. Mitigation measures which postpone exact formulation should have specific performance standards, and here, the EIR does not define the circumstances in which natural gas will be permitted. It is not enforceable because there is no definition for when natural gas is a "critical component" or which manufacturing processes would "require" natural gas. Thus, there is no way to ensure that this mitigation measure will be implemented and it is not able to be monitored for compliance over time. The City should not delay or defer the decision-making for what constitutes an appropriate circumstance for permitting natural gas.

#### Infeasibility Finding Lacks Substantial Evidence

The conclusion that the Project will not be able to achieve any mitigation is not supported with substantial evidence. The EIR should have proposed mitigation measures to be applied to the maximum-feasible extent in order to justify the conclusion that the Project's GHG impact would be unavoidable due to lack of feasibility of mitigation. The EIR does not identify a single mitigation measure, beyond the Project features, nor explain why any mitigation whatsoever would be infeasible.

#### It Is Feasible to Adopt More Mitigation Measures

CEQA places the burden of proof of the infeasibility of mitigation on the City when it concludes the Project will have a significant and unavoidable impact. The City did not analyze any mitigation measures when concluding that the Project's GHG impact would be unavoidable. This not only fails to analyze and disclose adequate reasoning, to the detriment of the public and decision-makers, but also does not amount to substantial evidence to support the conclusion that the Project's impact would be significant and unavoidable.

The City and Applicant together can commit to design and technology specifications that reduce emissions, especially in the heavy-duty truck and transportation vehicle fleet. Further, the City can require the applicant to enter a contract with future tenants to use zero-emission commercial vehicles upon reasonable availability and maintain a charging system for the vehicle fleet that is powered by solar panels on the Project site. Thus, the conclusion that further mitigation is infeasible was not supported by substantial evidence.

### The Project's GHG Impacts Must be Fully Mitigated

CEQA requires that the Project include fair-share mitigation for all significant cumulative impacts. (Napa Citizens for Honest Gov't v. Napa County Board of Supervisors (2001) 91 Cal.App.4th 342, 364.) Here, this means mitigation of the full extent of the Project's GHG impacts. The EIR claims that no mitigation measures are feasible. But that conclusion is incorrect, and not supported by substantial evidence.

The amount of GHG emissions that comprises the Project's fair share is unclear. The EIR acknowledges that the Project would result in a significant and unavoidable impact on GHG emissions. However, it did not quantify the Projects MTCO2e emissions, nor did it identify the project's reasonable life span. As a result, the starting point from which to subtract the effect of additional non-offset mitigation measures, before implementing offset purchases is unknown.

CEQA requires all feasible mitigation. Mitigation measures need not reduce the significant environmental impact to the level of less-than-significance to be considered and adopted. Here, the City's responses demonstrate an erroneous interpretation of CEQA that would only require mitigation if it would reduce the Project's impact to a less-than-significant level, and because the City deemed that infeasible, they only adopted one mitigation measure aimed at reducing that single source of GHG emissions, and declined to adopt any mitigation measures that would reduce the Project's impact from the remaining sources of GHG emissions, including transportation and mobile sources from which the majority of the Project's emissions occur.

Under the Bay Area Air Quality Management District (BAAQMD) recommendations, the significance threshold chosen by the City, a project would have significant GHG emissions

unless it would have no natural gas infrastructure, which is related to GHG impact because burning natural gas releases GHGs. However, GHG impact as a category of CEQA analysis looks to the entirety of the GHG impact, cumulatively and over the lifetime of the Project from all direct and indirect sources of GHG emissions. Therefore, there are many measures that are unrelated to prohibiting natural gas that could serve to reduce the Project's GHG emissions, and ultimately, be effective and valid mitigation measures under CEQA.

The City determined that, other than banning natural gas infrastructure, there would be no measures that would reduce the Project's significant impact. The City's view of GHG impact as a binary choice between compliance with the BAAQMD equating to less than significance and non-compliance as significant—with no varying degree of impact in between—is contrary to logic, science, and contravenes the purpose of CEQA to fully disclose and mitigate significant impacts to the degree feasible. Even though the City declined to calculate the Project's quantitative contribution to GHG emissions, that does not change the fact that the Project's GHG emissions (and thereby GHG impact) would be reduced by GHG-reducing measures such as energy efficiency measures, solar panels, electric vehicle (EV) charging stations, transportation demand management plans, water conservation measures, idling limitations, and carbon offsets, among other feasible mitigation measures.

The City did not provide an explanation for why such measures would be infeasible. CEQA defines feasible as a measure which can be completed in a reasonable time frame, considering various factors. Rather than address any factors which would make measures infeasible, the City instead determined that no measures were necessary because based on the City's significance threshold, implementing non-natural gas related measures would not impact the ultimate significance conclusion. This is an improper analysis of feasible mitigation measures and does not fulfill the City's mitigation responsibility as the CEQA lead agency, which is to reduce any significant environmental impacts to the extent feasible, even if unable to achieve full mitigation to the less-than-significant extent.

# The City Can Prohibit Natural Gas Infrastructure in this Project as a GHG Mitigation Measure

The EIR determined that it is infeasible for this Project to comply with the recommendations of the BAAQMD because of the infeasibility of a natural gas ban. Yet, planning a Project which avoids natural gas infrastructure as a mitigation measure is not the same as passing a ban on natural gas infrastructure City-wide. Further, the City's interpretation and reliance on the 9th Circuit case, California Restaurant Association v. City of Berkeley, is flawed. The City asserts that, under its interpretation of the holding in California Restaurant Association v. City of Berkeley, the Energy Policy and Conservation Act (EPCA) preempts a City's ban of natural gas infrastructure because such infrastructure is necessary to support covered appliances under the EPCA. (See Final EIR, p. 39.)

However, the City misinterpreted the case. The court in California Restaurant Association v. City of Berkeley expressly noted that the EPCA's preemption is a narrow holding regarding modifications to building codes:

Though EPCA's preemption provision is broad, it is not unlimited. For instance, our holding here has nothing to say about a State or local government regulation of a utility's distribution of natural gas to premises where covered products might be used. We only decide that EPCA's preemptive scope applies to building codes that regulate the gas usage of covered appliances on premises where gas is otherwise available.

(California Rest. Ass'n v. City of Berkeley (9th Cir. 2024) 89 F.4th 1094, 1103.)

Overall, California Restaurant Association v. City of Berkeley is not controlling in this case, because it regards the legislative authority of a municipal corporation to enact building codes, rather than the authority granted under CEQA to mitigate significant environmental impacts of projects under its control. There is no legal authority holding that Federal preemption extends to mitigation measures required by CEQA. Further, it would not restrict any rights of individuals to use appliances covered under the EPCA if the City entered into an agreement with the applicant to restrict natural gas infrastructure as a matter of CEQA compliance and mitigation of the Project's significant GHG impact.

Accordingly, it is feasible to increase the stringency of mitigation measure GHG-1 to create a full prohibition of natural gas infrastructure in this Project, based on the significant environmental impact that would otherwise occur.

### Further Mitigation Is Required Beyond Prohibiting Natural Gas Infrastructure

GHG impact is inherently cumulative, so when a lead agency finds a significant GHG impact before mitigation, it is required to mitigate to the fair-share extent, not just below the level of significance. Here, this means mitigation of the full extent of the Project's GHG impacts. Mitigation measure GHG-1 alone is insufficient to account for mitigation of the fair-share of the Project's emissions, even if modified to fully prohibit natural gas infrastructure and bring the Project into consistency with the BAAQMD recommendations.

The City should have considered the entirety of the Project's GHG emissions sources, whether quantified or not, and determined appropriate mitigation measures each potential source of GHG emissions to reduce the Project's GHG impact to the maximum degree feasible.

## **Operational Emissions Reductions are Feasible**

There are several mitigation measures that are feasible, including renewable energy systems and batteries to power the facility during non-peak hours, solar water heaters, automatic light switches, among many other mitigation strategies that can be incorporated in

the project as design features or as mitigation measures. Such features could be adopted individually or as part of a comprehensive goal of sustainable building certification, such as Leadership and Energy and Environmental Design (LEED), that extends further beyond CALGreen requirements.

Solar panel installation or incorporating renewable energy production on-site is also a feasible mitigation measure. The DEIR indicates that the Project will comply with Title 24 requirements. (DEIR, p. 4.1-11.) However, Title 24 mandates only that a minimum of 15 percent of the roof area be solar-ready. Extending this requirement to cover the maximum available surface area, rather than just the minimum 15 percent required would be feasible. Additionally, installing solar panels across the entire available roof surface would also be a feasible measure. Having solar panels capable of offsetting 100% of the buildings' energy demands would enhance the effectiveness and decrease GHG emissions overall.

Likewise, the DEIR specifies the installation of charging stations required by Title 24, in this case, 21 electric vehicle (EV) charging stations. (DEIR, p. 4.1-11.) There is no evidence that it would be infeasible to install more charging stations beyond the proposed 21 stations. Overall, there are more options available to mitigate emissions to the full extent of project emissions.

#### Offsets Are Feasible

After requiring operational emissions reductions to the maximum feasible extent, the City could also require the Applicant to purchase offsets for the Project's remaining GHG emissions. The City did not provide any evidence for why offsets would be infeasible. Offsets are acceptable mitigation measures under CEQA (See CEQA Guidelines § 15126.4 (c)(3).) Overall, there are more options available to mitigate emissions to the full extent of project emissions, and the City failed to acknowledge or implement many mitigation measures that are feasible and could help reduce the Project's GHG impact to the fair share extent.

#### Conclusion

For the foregoing reasons, the EIR violates CEQA. In particular, the EIR fails to require all feasible mitigation, despite concluding that the significant GHG impact will be unavoidable. The vast majority of the Project's emissions are from mobile sources, such as truck trips due to project operations. The adopted mitigation would not sufficiently address GHG impact because it is only focused on building-related GHG emissions.

The lead agency has not met its burden of showing that any further mitigation measures would be infeasible, and therefore the EIR should not have been certified without all feasible mitigation, including offsets incorporated. Thus, the Planning Commission should have

rejected the Project and declined to certify the EIR, or at least should have continued the Project for another date if and until the EIR is amended in conformance with CEQA.

Sincerely,

Dean Wallraff, Attorney at Low

Executive Director, Advocates for the Environment



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	FEB 2 1 2025		
	CITY CLERK'S OFFICE		
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	CLERK FEE RECEIPT NUMBER:  24-2025 City Clerk fee amount: \$556.00.		
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□ p	EPOSIT (FY 2024-2025 amount: \$5,000)		
☐ FIXED FEE (FY 2024-2025 amount: \$604.13)			
☐ TI	ECH FEE (FY 2024-2025 amount:: 6% of fees)		
AGRE			
	EEMENT FOR PAYMENT OF PLANNING FEES: GNED		

I wish to appeal the decision of the Planning Commission.  I am:   The Project Applicant (fill out back side too)   A Resident   A Business Owner   Other: Local Labor Organization			
The decision I am appealing was made on:    02/06/2025   (date decision was made)	, and the decision was to Approve Deny the project below:		
Project Number:         Project Address (or Ad	APN if address has not been issued): Drive		
Reasons for Appeal (List all grounds relied upon in many Planning Commission's certification of FEIR viola	naking this appeal. Attach additional sheets if necessary.) ted CEQA because FEIR failed to adequately:		
1. analyze energy use impacts, 2. mitigate GHC	and biological resources impacts, and		
3. analyze and support noise/vibration mitigatio	n measures		
	PLEASE SEE ATTACHED LETTER		
Print Full Name: Mitchell M. Tsai Law Firm / Carpenters Local Un	ion #713		
Mailing Address: 139 S. Hudson Avenue, Suite 200	Phone Number: (626) 314-3821		
Pasadena CA 91101  City State Zip	Email: jeremyh@mitchtsailaw.com; info@mitchtsailaw.com		
Signature of Appellant:	Date Signed: February 21, 2025		

Mitchell M. Tsai

P: (626) 314-3821 F: (626) 389-5414 E: info@mitchtsailaw.com 139 South Hudson Avenue Suite 200 Pasadena, California 91101

#### **VIA PERSONAL DELIVERY**

February 20, 2025

City Clerk City of San Leandro San Leandro City Hall 835 East 14th Street San Leandro, CA

RE: <u>City of San Leandro, 880 Doolittle Drive Project (SCH#</u>
2023110597) - Appeal of Planning Commission Approval of Project

Dear Mayor González and Distinguished Councilmembers,

On behalf of the Carpenters Local Union #713 ("Local 713"), our firm is submitting this appeal justification letter in connection with the February 6, 2025, approval by the City of San Leandro's ("City") Planning Commission of the 880 Doolittle Drive Project ("Project") and its certification of the Final Environmental Impact Report ("FEIR") in connection therewith.

The Project's Notice of Availability ("NOA") for the DEIR contains the following Project Description:

The proposed project consists of consolidating the two parcels comprising the project site into a single parcel, demolishing existing vacant structures, and developing a new industrial shell building on the site. The proposed project also includes a new surface parking lot, internal circulation roadways, landscaping, and new utility connections, including natural gas. The proposed warehouse would be approximately 244,573 square feet, comprised of a 229,573 square-foot of warehouse and 15,000 square feet of associated office space. Approximately 10,000 square feet of office space would be provided on the ground floor, and approximately 5,000 square feet of office space would be on a mezzanine level. The maximum building height would be 50 feet with an interior clear height of 40 feet. Sixty-four loading docks are proposed. Traditional doors for egress and ingress to the building would also be provided.

City of San Leandro – 880 Doolittle Drive Industrial Project February 20, 2025 Page 2 of 11

Access to the project site would be from the existing driveway on Doolittle Drive in the southwest area of the site, and from an existing driveway the end of Hester Street in the northern area of the site. The proposed project would include reconstruction of the driveways to meet City standards and current ADA requirements. Additionally, a new, second, driveway to the site would be constructed at the end of Hester Street, providing a total of three driveways. A total of 204 parking spaces would be provided on-site for passenger vehicles, which would be located primarily in a new surface parking lot on the west side of the proposed building. Approximately 59 parking spaces sized for tractor trailers would be on the north side of the warehouse. A total of 24 bicycle parking spaces would be provided.

The project would require a Use Permit, Site Plan Review, Height Exception, Building Permit, Grading Permit, and Tree Removal Permit. The project may also require approval(s) from the Federal Aviation Administration and the Department of Toxic Substances Control.

# NOA of DEIR, p. 1.

Local 713 represents thousands of union carpenters in Alameda County and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects.

Individual members of Local 713 live, work, and recreate in the City and surrounding communities and would be directly affected by the Project's environmental impacts.

Local 713 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.

Local 713 incorporates by reference all comments related to the Project or its CEQA review, including the Environmental Impact Report. See *Citizens for Clean Energy v City of Woodland* (2014) 225 Cal.App.4th 173, 191 (finding that any party who has objected to the project's environmental documentation may assert any issue timely raised by other parties).

City of San Leandro – 880 Doolittle Drive Industrial Project February 20, 2025 Page 3 of 11

This appeal is filed pursuant to San Leandro Zoning Code §§ 5.08.132 and 5.20.100, et seq. and San Leandro Municipal Code § 1-3-415. This appeal letter, Local 713's attached February 6, 2025, comment letter to the Planning Commission (attached hereto as **Exhibit A**), and its prior written comments concerning the Project, demonstrate that the Planning Commission's decision to approve the Project and certify the EIR violated CEQA. To that end, the decisions/resolutions adopted by the Planning Commission are not supported by evidence in the record, as the FEIR for the Project remains subject to numerous deficiencies that violate CEQA and it cannot permissibly be certified by the City in its current form. As discussed in greater detail below, those deficiencies include, but are not limited to, the EIR's failures (1) to adequately analyze the Project's energy use impacts, (2) to adequately mitigate the Project's significant and unavoidable greenhouse gas emissions impacts to the maximum extent feasible, (3) to adequately mitigate the Project's impacts on biological resources, and (4) to provide adequate analysis to support one of the Project's proposed noise/vibration mitigation measures.

The prior comments by Local 713 and other concerned parties identified various flaws in the City's environmental analysis, and provided new information and substantial evidence demonstrating that the FEIR fails as an informational document under CEQA.

# 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 by contractors who participate in a Joint Labor-Management Apprenticeship Program approved by the State of California and make a commitment to hiring a local workforce.

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 City of San Leandro – 880 Doolittle Drive Industrial Project February 20, 2025 Page 4 of 11

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

<sup>&</sup>lt;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* <a href="https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf">https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf</a>.

<sup>&</sup>lt;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* <a href="http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10">http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10</a>.

City of San Leandro – 880 Doolittle Drive Industrial Project February 20, 2025 Page 5 of 11

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 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.

<sup>&</sup>lt;sup>3</sup> California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, available at <a href="https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf">https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf</a>

<sup>&</sup>lt;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* <a href="http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf">http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf</a>.

City of San Leandro – 880 Doolittle Drive Industrial Project February 20, 2025 Page 6 of 11

# II. THE PLANNING COMMISSION APPROVED THE PROJECT IN VIOLATION OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

# A. Background Concerning the California Environmental Quality Act

The California Environmental Quality Act ("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, subd. (a)(1).<sup>5</sup> At its core, its 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.

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

It is the duty of the lead agency, not the public, to conduct the proper environmental studies. "The agency should not be allowed to hide behind its own failure to gather relevant data." *Sundstrom, supra*, 202 Cal.App.3d at p. 311. "Deficiencies in the record may actually enlarge the scope of fair argument by lending a logical plausibility to a wider range of inferences." *Ibid*; see also *Gentry v. City of Murrieta* (1995) 36 Cal.App.4th 1359, 1382 (lack of study enlarges the scope of the fair argument which may be made based on the limited facts in the record).

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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. Dept. of Fish & Wildlife (2015) 62 Cal.4th 204, 217.

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While the courts review an EIR using an 'abuse of discretion' standard, the reviewing court is not to uncritically rely on every study or analysis presented by a project proponent in support of its position. Berkeley Keep Jets, supra, 91 Cal.App.4th at p. 1355 (quoting Laurel Heights, supra, 47 Cal.3d at pp. 391, 409 fn. 12) (internal quotations omitted). A clearly inadequate or unsupported study is entitled to no judicial deference. Ibid. Drawing this line and determining whether the EIR complies with CEQA's information disclosure requirements presents a question of law subject to independent review by the courts. Sierra Club v. County of Fresno (2018) 6 Cal.5th 502, 515; Madera Oversight Coalition, Inc. v. County of Madera (2011) 199 Cal.App.4th 48, 102, 131. As the First District Court of Appeal has previously stated, prejudicial abuse of discretion occurs if the failure to include relevant information precludes informed decision-making and informed public participation, thereby thwarting the statutory goals of the EIR process. Berkeley Keep Jets, supra, 91 Cal.App.4th at p. 1355 (internal quotations omitted).

Both the review for failure to follow CEQA's procedures and the fair argument test are questions of law, thus, the de novo standard of review applies. Vineyard Area Citizens for Responsible Growth v. City of Rancho Cordova (2007) 40 Cal.4th 412, 435. Whether the agency's record contains substantial evidence that would support a fair argument that the project may have a significant effect on the environment is treated as a question of law. Consolidated Irrigation Dist., supra, 204 Cal.App.4th at p. 207; Kostka and Zischke, Practice Under the Environmental Quality Act (2017, 2d ed.) at § 6.76.

1. CEQA Requires Subsequent or Supplemental Environmental Review When Substantial Changes or New Information Comes to Light

Section 21092.1 of the California Public Resources Code requires that "[w]hen significant new information is added to an environmental impact report after notice has been given pursuant to Section 21092 ... but prior to certification, the public agency shall give notice again pursuant to Section 21092, and consult again pursuant to Sections 21104 and 21153 before certifying the environmental impact report" in order to give the public a chance to review and comment upon the information. (CEQA Guidelines § 15088.5.)

Significant new information includes "changes in the project or environmental setting as well as additional data or other information" that "deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect

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of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative)." (CEQA Guidelines § 15088.5(a).) Examples of significant new information requiring recirculation include "new significant environmental impacts from the project or from a new mitigation measure," "substantial increase in the severity of an environmental impact," "feasible project alternative or mitigation measure considerably different from others previously analyzed" as well as when "the draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded." (*Id.*)

An agency has an obligation to recirculate an environmental impact report for public notice and comment due to "significant new information" regardless of whether the agency opts to include it in a project's environmental impact report. (Cadiz Land Co. v. Rail Cycle (2000) 83 Cal. App. 4th 74, 95 [finding that in light of a new expert report disclosing potentially significant impacts to groundwater supply "the EIR should have been revised and recirculated for purposes of informing the public and governmental agencies of the volume of groundwater at risk and to allow the public and governmental agencies to respond to such information."].) If significant new information was brought to the attention of an agency prior to certification, an agency is required to revise and recirculate that information as part of the environmental impact report.

# B. The FEIR Fails to Include Necessary Information, Analysis, and Mitigation Requested in Past Comment Letters.

In the FEIR, the City declined, without adequate justification, to address the concerns raised by Local 713 and other interested parties regarding the Project's DEIR. Most notably, the FEIR dismissed and downplayed the EIR's obligation to mitigate the Project's significant and unavoidable impacts related to greenhouse gas emissions. To that end, the FEIR failed and refused to incorporate additional mitigation measures to account for and offset the fact the Project was determined to have significant and unavoidable greenhouse gas impacts resulting from the construction and inclusion of natural gas infrastructure in the Project. The FEIR has engaged in an illogical and unreasonable calculus that, because the Project was under a purported legal requirement to include natural gas supply infrastructure in its construction, there would be no further means of limiting the Project's greenhouse gas emissions impacts because other mitigation measures could not reduce the amount of natural gas consumed by the Project. This rationale betrays an apparent lack of understanding

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regarding the nature of greenhouse gas emissions impacts and the concept of offsetting such emissions. Indeed, at bottom, the Project could even do as little purchase reputable carbon credits to offset (i.e., mitigate) the anticipated added greenhouse gas emissions posed by the inclusion of natural gas infrastructure at the Project in pursuit of achieving the regulatory goal of net-zero. However, the FEIR inexplicably declined to do so, treating the impacts of the Project's anticipated natural gas combustion, and the mitigation thereof, in complete isolation from other greenhouse gas mitigation strategies. This approach flies directly in the face of the CEQA requirement that an EIR mitigate any significant and unavoidable impacts to the maximum extent feasible, and as such, the FEIR as currently constituted violates CEQA.

Additionally, the FEIR failed to address and resolve Local 713's concerns regarding the Project's energy use impacts and the lack of appropriate analysis demonstrating that the Project's anticipated regulatory compliance would yield less than significant energy use impacts. To the extent that the City claims regulatory compliance will reduce the Project's energy use impacts to less than significant levels, it must base that determination on Project-specific analysis of the potential impacts and the effect that regulatory compliance will have on those impacts. (See Californians for Alternatives to Toxics v. Department of Food & Agric. (2005) 136 Cal. App. 4th 1; Ebbetts Pass Forest Watch v Department of Forestry & Fire Protection (2008) 43 Cal. App. 4th 936, 956.) Again, it will amount to a violation of CEQA for the City to certify the FEIR on the bare conclusion, without additional analysis, that the Project's compliance with state and local policies and regulations will categorically reduce energy use impacts below the threshold of significance.

Further still, the FEIR has declined to provide adequate analysis to support its attempted mitigation of the Project's biological resources impacts. In that regard, as a basis for refusing to modify the nature and extent of biological surveys included in its mitigation measures, the FEIR asserts that the street trees to be removed at the Project Site are not suitable candidates for raptor nesting without providing any evidence, studies, or other documentation to support that notion. To the extent that the FEIR is inclined to dismiss the applicability of certain CDFW guidance as to bird/raptor nesting season on the Project, the City must do more to substantiate that position. CEQA requires that the City provide substantial evidence to support such a

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notion where, as here, it is faced with significant new information regarding the Project's biological resources impacts.

Finally, the FEIR completely fails and refuses to address the concerns raised by Local 713 concerning the Project's noise/vibration mitigation measure, MM-NOI-2. Indeed, Local 713 resubmits that the mitigation measure is not supported by adequate evidence and study to demonstrate that use of a vibratory roller at 16-25 feet of distance from neighboring structures will not cause structural damage. Thus, as currently crafted, the mitigation measure leaves open the significant possibility of neighboring structural damage via the nature of vibratory roller use that the FEIR has sanctioned for the Project. The FEIR was required to perform further analysis and study to confirm that such vibration impacts would be mitigated to the maximum extent possible, but it has maintained its failure to do so in violation of CEQA.

Accordingly, and for the reasons set forth herein and in the attached Exhibit A, the City Council should grant this appeal, reversing the approvals of the Planning Commission for the Project, and rejecting the Planning Commission's certification of the Project's EIR, pending the revision and recirculation of it to address these issues, and others identified by the commenting parties.

#### III. CONCLUSION

Based on the foregoing, Local 713 requests that the City Council grant this appeal, thereby reversing the Planning Commission's approval for the Project, pending the required revision and recirculation of the FEIR to first address the areas of concern including the Project's greenhouse gas emissions mitigation, analysis of energy use impacts, biological resources mitigation measures, and noise/vibration impact analysis and mitigation. Thank you for your consideration. If the City has any questions, please do not hesitate to contact our office.

Sincerely,

Jeremy Herwitt

Attorneys for Carpenters Local Union #713

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# Attached:

February 6, 2025, Mitchell M. Tsai Law Firm Letter to City of San Leandro Planning Commission (**Exhibit A**)

P: (626) 314-3821 F: (626) 389-5414 E: info@mitchtsailaw.com



139 South Hudson Avenue Suite 200 Pasadena, California 91101

## VIA E-MAIL

February 6, 2025

Planning Commission City of San Leandro 835 East 14th Street San Leandro, California 94577

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RE: February 6, 2025 Planning Commission Meeting –

Agenda Item No. 7.A - City of San Leandro's 880 Doolittle Drive

Project – Final Environmental Impact Report (SCH# 2023110597)

Dear Honorable Commissioners and Cindy Lemaire,

On behalf of the Carpenters Union Local #713 ("Local 713"), our firm is submitting these comments for Agenda Item No. 7.A of the City of San Leandro's ("City") February 6, 2025, Planning Commission meeting concerning the hearing on the 880 Doolittle Drive Project ("Project") and the Draft Environmental Impact Report ("DEIR") and Final Environmental Impact Report ("FEIR") prepared by the City in connection therewith.

The Project's Notice of Availability ("NOA") for the DEIR contains the following Project Description:

The proposed project consists of consolidating the two parcels comprising the project site into a single parcel, demolishing existing vacant structures, and developing a new industrial shell building on the site. The proposed project also includes a new surface parking lot, internal circulation roadways, landscaping, and new utility connections, including natural gas. The proposed warehouse would be approximately 244,573 square feet, comprised of a 229,573 square-foot of warehouse and 15,000 square feet of associated office space. Approximately 10,000 square feet

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of office space would be provided on the ground floor, and approximately 5,000 square feet of office space would be on a mezzanine level. The maximum building height would be 50 feet with an interior clear height of 40 feet. Sixty-four loading docks are proposed. Traditional doors for egress and ingress to the building would also be provided.

Access to the project site would be from the existing driveway on Doolittle Drive in the southwest area of the site, and from an existing driveway the end of Hester Street in the northern area of the site. The proposed project would include reconstruction of the driveways to meet City standards and current ADA requirements. Additionally, a new, second, driveway to the site would be constructed at the end of Hester Street, providing a total of three driveways. A total of 204 parking spaces would be provided on-site for passenger vehicles, which would be located primarily in a new surface parking lot on the west side of the proposed building. Approximately 59 parking spaces sized for tractor trailers would be on the north side of the warehouse. A total of 24 bicycle parking spaces would be provided.

The project would require a Use Permit, Site Plan Review, Height Exception, Building Permit, Grading Permit, and Tree Removal Permit. The project may also require approval(s) from the Federal Aviation Administration and the Department of Toxic Substances Control.

# NOA of DEIR, p. 1.

Local 713 represents thousands of union carpenters in Alameda County and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects.

Individual members of Local 713 live, work, and recreate in the City and surrounding communities and would be directly affected by the Project's environmental impacts.

Local 713 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.

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Local 713 incorporates by reference all comments related to the Project or its CEQA review, including the Environmental Impact Report ("EIR"). See *Citizens for Clean Energy v City of Woodland* (2014) 225 Cal.App.4th 173, 191 (finding that any party who has objected to the project's environmental documentation may assert any issue timely raised by other parties).

Moreover, Local 713 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 by contractors who participate in a Joint Labor-Management Apprenticeship Program approved by the State of California and make a commitment to hiring a local workforce.

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

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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 achieve VMT reductions given that the skill requirements of available local jobs must

<sup>&</sup>lt;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* <a href="https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf">https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf</a>.

<sup>&</sup>lt;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* <a href="http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10.">http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10.</a>

<sup>&</sup>lt;sup>3</sup> California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, available at <a href="https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf">https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf</a>

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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 CALIFORNIA ENVIRONMENTAL QUALITY ACT

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, subd. (a)(1).<sup>5</sup> At its core, its purpose is to "inform the public and its responsible officials of the environmental

<sup>&</sup>lt;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* <a href="http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf">http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf</a>.

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. 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. Dept. of Fish & Wildlife (2015) 62 Cal.4th 204, 217.

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consequences of their decisions *before* they are made. Thus, the EIR 'protects not only the environment but also informed self-government[.]" *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553, 564 (internal citation omitted).

CEQA directs public agencies to avoid or reduce environmental damage, when possible, by requiring alternatives or mitigation measures. CEQA Guidelines, § 15002, subds. (a)(2)-(3); see also Berkeley Keep Jets Over the Bay Committee v. Board of Port Commissioners of the City of Oakland (2001) 91 Cal.App.4th 1344, 1354; Laurel Heights Improvement Assn. v. Regents of University of California (1988) 47 Cal.3d 376, 400. The Environmental Impact Report (EIR) serves to provide public agencies and the public in general with information about the effect that a proposed project is likely to have on the environment and to "identify ways that environmental damage can be avoided or significantly reduced." CEQA Guidelines, § 15002, subd. (a)(2).

A public agency must prepare an EIR whenever substantial evidence supports a "fair argument" that a proposed project "may have a significant effect on the environment." Pub. Res. Code, §§ 21100, 21151; CEQA Guidelines, §§ 15002, subds. (f)(1)-(2), 15063; No Oil, supra, 13 Cal.App.3d at p. 75; Communities for a Better Environment v. California Resources Agency (2002) 103 Cal.App.4th 98, 111-112. If the project has a significant effect on the environment, the agency may approve the project only upon finding that it has "eliminated or substantially lessened all significant effects on the environment where feasible" and that any unavoidable significant effects on the environment are "acceptable due to overriding concerns" specified in Public Resources Code section 21081. See CEQA Guidelines, §§ 15092, subds. (b)(2)(A)-(B).

Essentially, should a lead agency be presented with a fair argument that a project may have a significant effect on the environment, the lead agency shall prepare an EIR even though it may also be presented with other substantial evidence that the project will not have a significant effect. CEQA Guidelines, §§ 15064(f)(1)-(2); see No Oil, supra, 13 Cal.App.3d at p. 75 (internal citations and quotations omitted). Substantial evidence includes "enough relevant information and reasonable inferences from this information that a fair argument can be made to support a conclusion, even though other conclusions might also be reached." CEQA Guidelines, § 15384, subd. (a).

The EIR has been described as "an environmental 'alarm bell' whose purpose it is to alert the public and its responsible officials to environmental changes before they have reached ecological points of no return." Berkeley Keep Jets Over the Bay v. Bd. of Port

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Comm'rs. (2001) 91 Cal. App. 4th 1344, 1354 ("Berkeley Jets"); County of Inyo v. Yorty (1973) 32 Cal. App. 3d 795, 810.

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

A strong presumption in favor of requiring preparation of an EIR is built into CEQA. This presumption is reflected in what is known as the "fair argument" standard under which an EIR must be prepared whenever substantial evidence in the record supports a fair argument that a project may have a significant effect on the environment. *Quail Botanical Gardens Found., Inc. v. City of Encinitas* (1994) 29 Cal.App.4th 1597, 1602; *Friends of "B" St. v. City of Hayward* (1980) 106 Cal.3d 988, 1002.

The fair argument test stems from the statutory mandate that an EIR be prepared for any project that "may have a significant effect on the environment." Pub. Res. Code, § 21151; see No Oil, Inc. v. City of Los Angeles (1974) 13 Cal.App.3d 68, 75 (hereafter, "No Oil"); accord Jensen v. City of Santa Rosa (2018) 23 Cal.App.5th 877, 884 (hereafter, "Jensen"). Under this test, if a proposed project is not exempt and may cause a significant effect on the environment, the lead agency must prepare an EIR. Pub. Res. Code, §§ 21100, subd. (a), 21151; CEQA Guidelines, §§ 15064, subds. (a)(1), (f)(1). An EIR may be dispensed with only if the lead agency finds no substantial evidence in the initial study or elsewhere in the record that the project may have a significant effect on the environment. Parker Shattuck Neighbors v. Berkeley City Council (2013) 222 Cal.App.4th 768, 785. In such a situation, the lead agency must adopt a negative declaration. Pub. Res. Code, § 21080, subd. (c)(1); CEQA Guidelines, §§ 15063, subd. (b)(2), 15064, subd. (f)(3).

"Significant effect upon the environment" is defined as "a substantial or potentially substantial adverse change in the environment." Pub. Res. Code, § 21068; CEQA

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Guidelines, § 15382. A project may have a significant effect on the environment if there is a reasonable probability that it will result in a significant impact. No Oil, supra, 13 Cal. App.3d at p. 83 fn. 16; see Sundstrom v. County of Mendocino (1988) 202 Cal. App.3d 296, 309 (hereafter, "Sundstrom"). If any aspect of the project may result in a significant impact on the environment, an EIR must be prepared even if the overall effect of the project is beneficial. CEQA Guidelines, § 15063, subd. (b)(1); see County Sanitation Dist. No. 2 v. County of Kern (2005) 127 Cal. App.4th 1544, 1580.

This standard sets a "low threshold" for preparation of an EIR. Consolidated Irrigation Dist. v. City of Selma (2012) 204 Cal. App. 4th 187, 207; Nelson v. County of Kern (2010) 190 Cal. App. 4th 252; Pocket Protectors v. City of Sacramento (2004) 124 Cal. App. 4th 903, 928; Bowman v. City of Berkeley (2004) 122 Cal. App. 4th 572, 580; Citizen Action to Serve All Students v. Thornley (1990) 222 Cal. App. 3d 748, 754; Sundstrom, supra, 202 Cal. App. 3d at p. 310; No Oil, supra, 13 Cal. App. 3d at p. 84; County Sanitation, supra, 127 Cal. App. 4th at p. 1579. If substantial evidence in the record supports a fair argument that the project may have a significant environmental effect, the lead agency must prepare an EIR even if other substantial evidence before it indicates the project will have no significant effect. See Jensen, supra, 23 Cal. App. 5th at p. 886; Clews Land & Livestock v. City of San Diego (2017) 19 Cal. App. 5th 161, 183; Stanislaus Audubon Society, Inc. v. County of Stanislaus (1995) 33 Cal. App. 4th 144, 150; Brentwood Assn. for No Drilling, Inc. v. City of Los Angeles (1982) 134 Cal. App. 3d 491; Friends of 'B" St., 106 Cal. App.3d 988; CEQA Guidelines, § 15064, subd. (f)(1). It "requires the preparation of an EIR where there is substantial evidence that any aspect of the project, either individually or cumulatively, may cause a significant effect on the environment, regardless of whether the overall effect of the project is adverse or beneficial[.]" County Sanitation, supra, 127 Cal. App. 4th at p. 1580 (quoting CEQA Guidelines, § 15063, subd. (b)(1)).

Evidence supporting a fair argument of a significant environmental impact triggers preparation of an EIR regardless of whether the record contains contrary evidence. League for Protection of Oakland's Architectural and Historical Resources v. City of Oakland (1997) 52 Cal. App. 4th 896, 904-905. "Where the question is the sufficiency of the evidence to support a fair argument, deference to the agency's determination is not appropriate[.]" County Sanitation, supra, 127 Cal. App. 4th at p. 1579 (quoting Sierra Club v. County of Sonoma (1992) 6 Cal. App. 4th 1307, 1317-1318).

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The agency or the court should not weigh expert testimony or decide on the credibility of such evidence—this is the EIR's responsibility. As stated in *Pocket Protectors v. City of Sacramento* (2004):

Unlike the situation where an EIR has been prepared, neither the lead agency nor a court may "weigh" conflicting substantial evidence to determine whether an EIR must be prepared in the first instance. Guidelines section 15064, subdivision (f)(1) provides in pertinent part: if a lead agency is presented with a fair argument that a project may have a significant effect on the environment, the lead agency shall prepare an EIR even though it may also be presented with other substantial evidence that the project will not have a significant effect. Thus, as *Claremont* itself recognized, [c]onsideration is not to be given contrary evidence supporting the preparation of a negative declaration.

124 Cal. App. 4th 903, 935 (internal citations and quotations omitted).

In cases where it is not clear whether there is substantial evidence of significant environmental impacts, CEQA mandates erring on the side of a "preference for resolving doubts in favor of environmental review." *Mejia v. City of Los Angeles* (2005) 130 Cal.App.4th 322, 332 "The foremost principle under CEQA is that the Legislature intended the act to be interpreted in such manner as to afford the fullest possible protection to the environment within the reasonable scope of the statutory language. *Friends of Mammoth v. Bd. of Supervisors* (1972) 8 Cal.3d 247, 259.

Further, it is the duty of the lead agency, not the public, to conduct the proper environmental studies. "The agency should not be allowed to hide behind its own failure to gather relevant data." *Sundstrom, supra,* 202 Cal.App.3d at p. 311. "Deficiencies in the record may actually enlarge the scope of fair argument by lending a logical plausibility to a wider range of inferences." *Ibid*; see also *Gentry v. City of Murrieta* (1995) 36 Cal.App.4th 1359, 1382 (lack of study enlarges the scope of the fair argument which may be made based on the limited facts in the record).

Thus, refusal to complete recommended studies lowers the already low threshold to establish a fair argument. The court may not exercise its independent judgment on the omitted material by determining whether the ultimate decision of the lead agency would have been affected had the law been followed. *Environmental Protection Information Center v. Cal. Dept. of Forestry* (2008) 44 Cal.4th 459, 486 (internal citations

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and quotations omitted). The remedy for this deficiency would be for the trial court to issue a writ of mandate. *Ibid.* 

While the courts review an EIR using an 'abuse of discretion' standard, the reviewing court is not to uncritically rely on every study or analysis presented by a project proponent in support of its position. Berkeley Keep Jets, supra, 91 Cal.App.4th at p. 1355 (quoting Laurel Heights, supra, 47 Cal.3d at pp. 391, 409 fn. 12) (internal quotations omitted). A clearly inadequate or unsupported study is entitled to no judicial deference. Ibid. Drawing this line and determining whether the EIR complies with CEQA's information disclosure requirements presents a question of law subject to independent review by the courts. Sierra Club v. County of Fresno (2018) 6 Cal.5th 502, 515; Madera Oversight Coalition, Inc. v. County of Madera (2011) 199 Cal.App.4th 48, 102, 131. As the First District Court of Appeal has previously stated, prejudicial abuse of discretion occurs if the failure to include relevant information precludes informed decision-making and informed public participation, thereby thwarting the statutory goals of the EIR process. Berkeley Keep Jets, supra, 91 Cal.App.4th at p. 1355 (internal quotations omitted).

Both the review for failure to follow CEQA's procedures and the fair argument test are questions of law, thus, the de novo standard of review applies. *Vineyard Area Citizens for Responsible Growth v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 435. Whether the agency's record contains substantial evidence that would support a fair argument that the project may have a significant effect on the environment is treated as a question of law. *Consolidated Irrigation Dist.*, *supra*, 204 Cal.App.4th at p. 207; Kostka and Zischke, Practice Under the Environmental Quality Act (2017, 2d ed.) at § 6.76.

### III. THE EIR IS INADEQUATE UNDER CEQA

# A. The FEIR Fails to Support Its Findings with Substantial Evidence

When new information is brought to light showing that an impact previously discussed in the DEIR but found to be insignificant with or without mitigation in the DEIR's analysis has the potential for a significant environmental impact supported by substantial evidence, the EIR must consider and resolve the conflict in the evidence. See *Visalia Retail, L.P. v. City of Visalia* (2018) 20 Cal. App. 5th 1, 13, 17; see also *Protect the Historic Amador Waterways v. Amador Water Agency* (2004) 116 Cal. App. 4th 1099, 1109. While a lead agency has discretion to formulate standards for determining significance and the need for mitigation measures—the choice of any standards or

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thresholds of significance must be "based to the extent possible on scientific and factual data and an exercise of reasoned judgment based on substantial evidence. CEQA Guidelines § 15064(b); Cleveland Nat'l Forest Found. v. San Diego Ass'n of Gov'ts (2017) 3 Cal. App. 5th 497, 515; Mission Bay Alliance v. Office of Community Inv. & Infrastructure (2016) 6 Cal. App. 5th 160, 206. And when there is evidence that an impact could be significant, an EIR cannot adopt a contrary finding without providing an adequate explanation along with supporting evidence. East Sacramento Partnership for a Livable City v. City of Sacramento (2016) 5 Cal. App. 5th 281, 302.

In addition, a determination that regulatory compliance will be sufficient to prevent significant adverse impacts must be based on a project-specific analysis of potential impacts and the effect of regulatory compliance. In Californians for Alternatives to Toxics v. Department of Food & Agric. (2005) 136 Cal. App. 4th 1, the court set aside an EIR for a statewide crop disease control plan because it did not include an evaluation of the risks to the environment and human health from the proposed program but simply presumed that no adverse impacts would occur from use of pesticides in accordance with the registration and labeling program of the California Department of Pesticide Regulation. See also Ebbetts Pass Forest Watch v Department of Forestry & Fire Protection (2008) 43 Cal. App. 4th 936, 956 (the fact that the Department of Pesticide Regulation had assessed environmental effects of certain herbicides in general did not excuse failure to assess effects of their use for specific timber harvesting project).

Here, for the reasons discussed in detail below, the EIR fails to comply with the foregoing requirements.

1. The Project's Initial Study and the FEIR's Responses to Comments Omit Critical Supporting Information Regarding the Project's Energy Use Impacts, Fail to Adopt a Correct Threshold of Significance, Improperly Rely on the Project's Purported Regulatory Compliance, and Improperly Find that the Project's Energy Use Impacts Would Be Less Than Significant

Environmental documents must provide technical details, not merely conclusory findings, to support their determinations. [A]n EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and

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members of the public. CEQA Guidelines § 15147; San Franciscans for Reasonable Growth v. City & County of San Francisco (1987) 193 Cal.App.3d 1544. 1549 ("All technical data, however, need not be included in the body of report, but may be relegated to appendices [citation omitted] or may be contained in separate source documents which are not formally a part of the document."). An EIR shall cite all documents used in its preparation . . . "CEQA Guidelines § 15148. An environmental document may incorporate by reference another document so long as the document is made available for inspection to the public. CEQA Guidelines § 15150.

Here, the Project's Initial Study (Appendix A to DEIR) concluded that the Project's energy use impacts will be less than significant and therefore no mitigation is required. See Appendix A to DEIR, pp. 59-65. However, the City appeared to premise this determination regarding the threshold of significance on faulty analysis whereby it compares the Project's anticipated net increase in energy uses to the estimated energy uses of all of Alameda County. See Appendix A to DEIR at p. 59. Despite the City's arguments to the contrary in the FEIR's Response to Comments (FEIR, pp. 503-505), Local 713 submits that the City then applied this improper underlying assumption in making the determination that the proposed Project's anticipated energy uses will have no significant energy use impacts. *Id*.

In this regard, the EIR fails to provide substantial evidence to support comparison of the Project's energy use with the estimated energy use of the entirety of Alameda County. Thresholds of significance are "identifiable, quantitative, qualitative or performance level of a particular environmental effect." (CEQA Guidelines 15064.7.) While a lead agency has discretion to set thresholds of significance to determine whether an adverse environmental impact should be classified as "significant" or "less than significant", a lead agency's choice of an appropriate threshold must be based upon scientific and factual data to the extent possible and supported by substantial evidence Mission Bay Alliance v. Office of Community Inv. & Infrastructure (2016) 6 Cal.App.5th 160, 206; CEQA Guidelines § 15064.) When there is evidence that an impact may be significant, an EIR may not find the impact to be less than significant without an adequate explanation and supporting evidence. (East Sacramento Partnership for a Livable City v. City of Sacramento (2016) 5 Cal. App.5th 281, 300 – 02.) A threshold of significance may not be "impermissibly lenient." (Endangered Habitats League, Inc. v. County of Orange (2005) 131 Cal.App.5th 777, 791.)

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In this case, the comparison of the Project's anticipated energy use impacts to the energy use of all of Alameda County (as an apparent threshold of significance) is unjustified and of no evidentiary value. Local 713 resubmits that the more pertinent, legally appropriate, and proportional analysis in assessing the Project's energy use impacts would be for the *EIR to consider the percentage increase in energy use that the Project presents compared to the current, existing energy uses within the Project site*. It is notable that City's responses to comments in the FEIR fail to address this reasonable proposal for shoring up the EIR's analysis of the Project's energy use impacts. Moreover, Local 713 reiterates that the EIR should analyze and present the Project's proportional contribution to the City's overall energy use, which it also fails to do.

The foregoing statistical calculations, and the City's demonstrated lack of analysis of them, amounts to <u>significant new information</u> associated with the Project's energy use impacts. This analysis must be performed for the City to properly assess the Project's anticipated energy use impacts and to thereby determine whether implementation of mitigation measures is warranted.

In the FEIR's Response to Comments, the City asserts that its determination of no significant energy use impacts was not based on the DEIR's comparison of the Project's anticipated energy use to Alameda County's energy use. (FEIR, pp. 503-505.) Rather, the City contends that its determination of no significant energy use impacts is based solely on the Project's compliance with applicable regulations and building planning guidance concerning building energy use and efficiency. (Id.) However, to meet CEQA requirements, a determination that regulatory compliance is sufficient to prevent significant adverse impacts must be based on a project-specific analysis of potential impacts and the effect of regulatory compliance. (See Californians for Alternatives to Toxics v. Department of Food & Agric. (2005) 136 Cal. App. 4th 1; Ebbetts Pass Forest Watch v Department of Forestry & Fire Protection (2008) 43 Cal. App. 4th 936, 956.) Here, the FEIR's bald assertion that the Project's compliance with state and local policies and regulations will categorically reduce energy use impacts below the threshold of significance, without supporting analysis, violates CEQA.

Ultimately, as set forth in *Sundstrom*, on this issue, the City "should not be allowed to hide behind its own failure to gather relevant data." 202 Cal.App.3d at p. 311. The City's wholesale reliance on purported regulatory compliance as its basis for finding no significant energy use impacts lacks legal justification, and is therefore arbitrary and

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capricious. The inadequate study conducted by the City on this issue will be entitled to no judicial deference in any CEQA challenge brought against the Project's DEIR/FEIR. See *Laurel Heights, supra*, 47 Cal.3d at pp. 391, 409 fn. 12) (internal quotations omitted).

Based on the foregoing, and in spite of the conclusions set forth in the EIR, there is substantial evidence of the potential for the Project's energy use to present a significant environmental impact. As such, the EIR must, at a minimum, be revised and recirculated consider and resolve this conflict in the evidence. See *Visalia Retail, supra,* 20 Cal. App. 5th at 17; see also *Amador Waterways, supra,* (2004) 116 Cal. App. 4th at 1109.

Furthermore, and as discussed below in connection with the Project's Greenhouse Gas Emissions impacts, there are a litany of additional mitigation measures that could be incorporated in the Project in order to curb its GHG emissions impacts, many of which would also reduce the Project's Energy Use (and Air Quality) impacts as well. Incorporating the energy use mitigation measures proposed below is feasible and justified for the Project. The DEIR's failure to do so, in conjunction with its faulty energy use impact analysis, violates CEQA.

# 2. The FEIR Improperly Fails to Deploy All Feasible Mitigation Measures for the Project's Greenhouse Gas Emissions Impacts

Similar to the deficiencies identified above regarding the EIR's faulty analysis of the Project's projected energy use, the EIR fails to properly analyze and mitigate the impacts associated with the Project's projected greenhouse gas ("GHG") emissions. Indeed, despite concluding that the Project will lead to significant and unavoidable GHG impacts in operation, the EIR still does not supply any estimated calculations of the GHG emissions that the Project will produce, either in the construction phase or the operation phase. Further, based on the appendices to the EIR, no GHG impact technical study for the Project has been conducted. Thus, the EIR provides no demonstrable analysis of the threshold of significance applicable to the Project's increase in GHG emissions. Rather, the EIR arbitrarily and summarily concludes that the Project's GHG impacts in its operation are significant and unavoidable (and less than significant in the construction phase). After initially claiming in the DEIR that no GHG mitigation measures were feasible, in response to comments submitted concerning the Project, the City has added a single GHG mitigation measure (GHG-1)

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apparently aimed at curbing the amount of natural gas to be consumed/combusted during the course of the Project's operation. (FEIR, pp. 41-42.)

As stated in the Office of Planning Research's ("**OPR**") technical advisory in 2018:

VMT and Greenhouse Gas Emissions Reduction. Senate Bill 32 (Pavley, 2016) requires California to reduce greenhouse gas (GHG) emissions 40 percent below 1990 levels by 2030, and Executive Order B-16-12 provides a target of 80 percent below 1990 emissions levels for the transportation sector by 2050.

Despite the Project's clear GHG emissions impact in direct contravention of SB 32's GHG reduction goals, the EIR draws the conclusion that the Project's GHG impacts are significant and cannot be further mitigated because of the 9th Circuit's recent decision in California Restaurant Association v. City of Berkeley. However, other than the recent addition of mitigation measures GHG-1, the EIR makes no effort to otherwise reduce the Project's GHG impacts through other specific project design features aimed at reducing GHG emissions. In this regard, the EIR mistakes a federal court ruling concerning federal preemption of natural gas supply regulations as grounds to excuse the City from the CEQA requirement of endeavoring to ensure that the Project's otherwise significant and unavoidable GHG emissions impacts are reduced to the maximum extent feasible. To that end, the City inexplicably argues in its responses to comments that, because other proposed GHG mitigation measures would not reduce the amount of natural gas consumed by the project, those other mitigation measures are not worthy of implementation to reduce the Project's otherwise significant and unavoidable GHG emissions impacts. (FEIR, pp. 38-44.) The City's FEIR even contends, without evidentiary or legal support, that any effort to offset the Project's GHG emissions impacts (through on-site or offsite measures) would not be appropriate or feasible in reducing the Project's significant and unavoidable GHG impacts. (FEIR, pp. 45-46.) The City's determinations in this regard are contrary to and violate CEQA, which does not constrain the scope of mitigation measures that may be implemented in order to reduce a project's individual and cumulative environmental impacts, and particularly those associated with significant and unavoidable GHG emissions.

Additionally, the Project remains inconsistent with the CARB 2022 Scoping Plan. Indeed, the first action item in the Scoping Plan is reduce GHG emissions "40%

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below 1990 levels by 2030." The CARB Scoping Plan also sets forth the action item that new residential and commercial buildings will have "[a]ll electric appliances beginning 2026 (residential) and 2029 (commercial), contributing to 6 million heat pumps installed statewide by 2030."

Despite the clear path presented by the CARB Scoping Plan for reducing GHG emissions, the EIR declines to hold the Project to that standard, and instead deflects its responsibility to identify and mitigate GHG emissions impacts pursuant to CEQA's mandate.

It is the City's obligation, as lead agency, to ensure that the Project's environmental impacts have first been properly analyzed and then mitigated to a less than significant level wherever possible. Local 713 resubmits that the Project's implementation of the additional potential mitigation measures set forth below (where applicable), as delineated by the California Air Pollution Control Officers Association's *Quantifying Greenhouse Gas Mitigation Measures*, would contribute toward the goal of reducing the Project's significant and unavoidable GHG emission impacts to the maximum extent possible:

		E	nergy			
Category	Measure Number	Strategy	ВМР	Grouped With #	Range of Effec	tiveness
					Percent Reduction in GHG Emissions	Basis
Use	BE-1	Buildings exceed Title 24 Building Envelope Energy Efficiency Standards by X% (X is equal to the percentage improvement selected for the project			For a 10% improvement ov Non-Residential electricity e natural gas use: 0.7-10% Residential electricity use: 0 gas use: 7.5-9.1%	ise: 0.2-5.5%;
ergy	BE-2	Install Programmable Thermostat Timers	х		ВМР	
Building Energy Use	BE-3	Obtain Third-party HVAC Commissioning and Verification of Energy Savings	х	BE-1	ВМР	
Bui	BE-4	Install Energy Efficient Appliances			Residential building: 2-4% Grocery Stores: 17-22%	Appliance Electricity Use
	BE-5	Install Energy Efficient Boilers			1.2-18.4%	Fuel Use

<sup>&</sup>lt;sup>6</sup> California Air Resources Board 2022 Scoping Plan at p. 72; <u>https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf</u>

<sup>7</sup> Id. at p. 75

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	AE-1	Establish Onsite Renewable Energy Systems-Generic		0-100%	
Alternative Energy Generation	AE-2	Establish Onsite Renewable Energy Systems-Solar Power		0-100%	
	AE-3	Establish Onsite Renewable Energy Systems-Wind Power		0-100%	
nativ	AE-4	Utilize a Combined Heat and Power System		0-46%	
Alter	AE-5	Establish Methane Recovery in Landfills		73-77%	
	AE-6	Establish Methane Recovery in Wastewater Treatment Plants		95-97%	
Lighting	LE-1	Install Higher Efficacy Public Street and Area Lighting		16-40%	Outdoor Lighting Electricity Use
	LE-2	Limit Outdoor Lighting Requirements	х	ВМР	
	LE-3	Replace Traffic Lights with LED Traffic Lights		90%	Traffic Light Electricity Use

Transportation									
Category	Measure Number	Strategy	ВМР	Grouped With #	Range of Effectiver	ness			
					Percent Reduction in GHG Emissions	Basis			
	LUT-1	Increase Density			1.5-30.0%	VMT			
	LUT-2	Increase Location Efficiency			10-65%	VMT			
tion	LUT-3	Increase Diversity of Urban and Suburban Developments (Mixed Use)			9-30%	VMT			
oca	LUT-4	Incr. Destination Accessibility			6.7-20%	VMT			
1/4	LUT-5	Increase Transit Accessibility			0.5-24.6%	VMT			
Land	LUT-6	Integrate Affordable and Below Market Rate Housing			0.04-1.20%	VMT			
	LUT-7	Orient Project Toward Non-Auto Corridor			NA				
	LUT-8	Locate Project near Bike Path/Bike Lane			NA				
	LUT-9	Improve Design of Development			3.0-21.3%	VMT			

	SDT-1	Provide Pedestrian Network Improvements		0-2%	VMT
등	SDT-2	Traffic Calming Measures		0.25-1.00%	VMT
Desi	SDT-3	Implement a Neighborhood Electric Vehicle (NEV) Network		0.5-12.7%	VMT
Site	SDT-4	Urban Non-Motorized Zones	SDT-1	NA	
Neighborhood / Site Design	SDT-5	Incorporate Bike Lane Street Design (on-site)	LUT-9	NA	
borho	SDT-6	Provide Bike Parking in Non- Residential Projects	LUT-9	NA	
Veigh	SDT-7	Provide Bike Parking in Multi- Unit Residential Projects	LUT-9	NA	
	SDT-8	Provide EV Parking	SDT-3	NA	
	SDT-9	Dedicate Land for Bike Trails	LUT-9	NA	
	PDT-1	Limit Parking Supply		5-12.5	%
Parking Policy / Pricing	PDT-2	Unbundle Parking Costs from Property Cost		2.6-13	%
Parking icy / Prici	PDT-3	Implement Market Price Public Parking (On-Street)		2.8-5.5	%
Pol	PDT-4	Require Residential Area Parking Permits	PDT-1, 2 & 3		
	TRT-1	Implement Voluntary CTR Programs		1.0-6.2%	Commute VMT
	TRT-2	Implement Mandatory CTR Programs – Required Implementation/Monitoring		4.2-21.0%	Commute VMT
	TRT-3	Provide Ride-Sharing Programs		1-15%	Commute VMT
	TRT-4	Implement Subsidized or Discounted Transit Prog.		0.3-20.0%	Commute VMT
	TRT-5	Provide End of Trip Facilities	TRT-1, 2 & 3	NA	
Trip Reduction Programs	TRT-6	Telecommuting and Alternative Work Schedules		0.07-5.50%	Commute VMT
ction P	TRT-7	Implement Commute Trip Reduction Marketing		0.8-4.0%	Commute VMT
Reduc	TRT-8	Implement Preferential Parking Permit Program	TRT-1, 2 & 3	NA	
Trip	TRT-9	Implement Car-Sharing Program		0.4-0.7%	VMT
	TRT-10	Implement School Pool Program		7.2-15.8%	School VMT

	TRT-11	Provide Employer-Sponsored Vanpool/Shuttle		0.3-13.4%	Commute VMT
	TRT-12	Implement Bike-Sharing Program	SDT-5, LUT-9		NA
	TRT-13	Implement School Bus Program		38-63%	School VMT
	TRT-14	Price Workplace Parking		0.1-19.7%	Commute VMT
	TRT-15	Implement Employee Parking "Cash-Out"		0.6-7.7%	Commute VMT
ents	TST-1	Provide a Bus Rapid Transit System		0.02-3.2%	VMT
Transit System Improvements	TST-2	Implement Transit Access Improvements	TST-3, TST-4	NA	
mpr	TST-3	Expand Transit Network		0.1-8.2%	VMT
tem I	TST-4	Increase Transit Service Frequency/Speed		0.02-2.5%	VMT
sit Sys	TST-5	Provide Bike Parking Near Transit	TST-3, TST-4	NA	
Tran	TST-6	Provide Local Shuttles	TST-3, TST-4	NA	
	RPT-1	Implement Area or Cordon Pricing		7.9-22.0%	VMT
3/ H	RPT-2	Improve Traffic Flow		0-45%	VMT
Road Pricing	RPT-3	Require Project Contributions to Transportation Infrastructure Improvement Projects	RPT-2, TST-1 to 6	NA	
Road	RPT-4	Install Park-and-Ride Lots	RPT-1, TRT-11, TRT-3, TST-1 to 6	NA	
es	VT-1	Electrify Loading Docks and/or Require Idling-Reduction Systems		26-71%	Truck Idling Time
Vehicles	VT-2	Utilize Alternative Fueled Vehicles		Varie	s
	VT-3	Utilize Electric or Hybrid Vehicles		0.4-20.3%	Fuel Use

			Wate	er		
Category	Measure	Strategy	ВМР	Grouped With #	Range of Effec	ctiveness
Category	Number		DIVIE		Percent Reduction in GHG Emissions	Basis
ply	WSW-1	Use Reclaimed Water			up to 40% for Northern Californiaup to 81% for Southern California	Outdoor Water Use
Sup	WSW-2	Use Gray Water			0-100%	Outdoor Water Use
Water Supply	WSW-3	Use Locally-Sourced Water Supply			0-60% for Northern and Central California; 11-75% for Southern California	Indoor and Outdoor Water Use
	WUW-1	Install Low-Flow Water Fixtures.			Residential: 20% Non-Residential: 17- 31%	Indoor Water Use
	WUW-2	Adopt a Water Conservation Strategy.			varies	
r Usa	WUW-3	Design Water-Efficient Landscapes			0-70%	Outdoor Water Use
Water Use	WUW-4	Use Water-Efficient Landscape Irrigation Systems			6.1%	Outdoor Water Use
	WUW-5	Reduce Turf in Landscapes and Lawns			varies	
	WUW-6	Plant Native or Drought- Resistant Trees and Vegetation			ВМР	

Area Landscaping								
Category	Measure Number	Strategy	ВМР	Grouped With #	Range of Effectiveness			
					Percent Reduction in GHG Emissions	Basis		
Area Landscaping	A-1	Prohibit Gas Powered Landscape Equipment.			LADWP: 2.5-46.5% PG&E: 64.1-80.3% SCE: 49.5-72.0% SDGE: 38.5-66.3% SMUD: 56.3-76.0%	Fuel Use		
Lan	A-2	Implement Lawnmower Exchange Program			ВМР			
Area	A-3	Electric Yard Equipment Compatibility		A-1 or A-2	ВМР			

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Solid Waste								
Category	Measure Number	Strategy	ВМР	Grouped With #	Range of Effectiveness			
		Strategy			Percent Reduction in GHG Emissions	Basis		
lid ste	SW-1	Institute or Extend Recycling and Composting Services			ВМР			
Solid	SW-2	Recycle Demolished Construction Material			ВМР			

Vegetation								
Category	Measure Number Strate			Grouped With #	Range of Effectiveness			
		Strategy	egy BMP		Percent Reduction in GHG Emissions	Basis		
tion	V-1	Urban Tree Planting		GP-4	varies			
Vegetation	V-2	Create new vegetated open space.			varies			

	Construction									
Category	Measure Number Strategy	Stratogy	ВМР	Grouped With #	Range of Effective	ness				
Calegory		Sualegy			Percent Reduction in GHG Emissions	Basis				
	C-1	Use Alternative Fuels for Construction Equipment			0-22%	Fuel Use				
LC	C-2	Use Electric and Hybrid Construction Equipment			2.5-80%	Fuel Use				
Construction	C-3	Limit Construction Equipment Idling beyond Regulation Requirements			varies					
රි	C-4	Institute a Heavy-Duty Off- Road Vehicle Plan		Any C	ВМР					
	C-5	Implement a Vehicle Inventory Tracking System		Any C	ВМР					

Miscellaneous								
Category	Measure	Strategy	ВМР	Grouped With #	Range of Effecti	veness		
	Number				Percent Reduction in GHG Emissions	Basis		
	Misc-1	Establish a Carbon Sequestration Project			varies			
v.	Misc-2	Establish Off-Site Mitigation			varies			
neon	Misc-3	Use Local and Sustainable Building Materials	х		ВМР			
Miscellaneous	Misc-4	Require Best Management Practices in Agriculture and Animal Operations	х		ВМР			
	Misc-5	Require Environmentally Responsible Purchasing	х		ВМР			
	Misc-6	Implement an Innovative Strategy for GHG Mitigation	х		BMP			

General Plan Strategies									
Category	Measure Number	Strategy	ВМР	Grouped With #	Range of Effectiveness				
					Percent Reduction in GHG Emissions	Basis			
	GP-1	Fund Incentives for Energy Efficiency	х		BMP				
lans	GP-2	Establish a Local Farmer's Market	х		ВМР				
al P	GP-3	Establish Community Gardens	х		BMP				
General Plans	GP-4	Plant Urban Shade Trees	х	V-1	ВМР				
	GP-5	Implement Strategies to Reduce Urban Heat-Island Effect	х		ВМР				

(See *Quantifying Greenhouse Gas Mitigation Measures*, Tables 6-1 to 6-9, California Air Pollution Control Officers Association (CAPCOA), August 2010.8)

Again, it is entirely feasible for the EIR to incorporate a substantial proportion of the foregoing measures for the Project as mandatory forms of mitigation against the

 $<sup>^8</sup>$  Available at:  $\frac{\text{http://www.aqmd.gov/docs/default-source/ceqa/handbook/capcoa-quantifying-greenhouse-gas-mitigation-measures.pdf}$ 

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Project's potentially significant greenhouse gas impacts (as well as energy use and air quality impacts). The EIR cannot permissibly deflect its obligations to mitigate such impacts merely by hiding behind the 9th Circuit's ruling in *California Restaurant Association v. City of Berkeley*. More is required, and as currently constituted, the EIR's improper analysis and lack of appropriate mitigation on GHG impacts violates CEQA.

### 3. The FEIR's Biological Resources Mitigation Measure Remains Insufficient.

The Project's Initial Study and DEIR notes that up to 5 city street trees may require removal at the north edge of the Project site at the terminus of Hester Street. (Appendix A to DEIR, Initial Study, p. 51.) In order to mitigate the Project's potentially significant impacts to nesting birds in said street trees, the Initial Study imposes mitigation measure BIO-1, which requires, among other things, that preconstruction nesting surveys be conducted during the nesting season. *Id.* at p. 52. However, the mitigation measure defines the nesting period as February-September, contrary various findings by the California Department of Fish and Wildlife ("CDFW") concerning bird nesting season.<sup>9</sup>

Further investigation of the information contained on the CDFW's "California Outdoors Q&A" webpage reveals that the boundaries of bird nesting season in California are broad and variable: "[N]esting season can vary based on location and species of bird, and in some parts of the state, birds nest year-round." 10

This added qualification by CDFW regarding bird nesting season is consistent with, and underscores, CDFW's separate finding that raptor nesting in the Project's geographic region can and does occur outside the more general bird nesting period of February-September sought by the DEIR in BIO-1. Moreover, CDFW's collective findings on this issue confirm the inadequacy of the City's proposed mitigation measure for the Project.

<sup>10</sup> See CDFW California Outdoors Q&A – Nesting Birds <a href="https://wildlife.ca.gov/COQA/ArticlePage/2/tag/conflict#gsc.tab=0">https://wildlife.ca.gov/COQA/ArticlePage/2/tag/conflict#gsc.tab=0</a>

<sup>9 &</sup>quot;...[S]ome species of raptors (e.g. owls, hawks, etc.) may commence nesting activities in January." See CDFW November 18, 2021 letter to City of Adelanto, available at <a href="https://files.ceqanet.opr.ca.gov/273819-1/attachment/">https://files.ceqanet.opr.ca.gov/273819-1/attachment/</a> zo76RgD7dUdj5BLJTEhEMdf74g6f100RrKiWBQSquhFFe5l0X53rLsbLSGMPRXgXM4 AaYnJSTfZB6JpY0

City of San Leandro, 880 Doolittle Drive Project February 6, 2025 Page 24 of 26

In the FEIR's responses to comments, the City indicates that the street trees subject to potential impacts by the Project are not suitable candidates for raptor nesting, and that therefore, no further mitigation efforts (and/or modifications to the Project's existing biological mitigation measures set forth in the DEIR) are required. (FEIR, p. 508.) However, the City has failed to provide any evidence whatsoever to support its assertions regarding the suitability of the impacted trees for raptor nesting, let alone substantial evidence. Indeed, the City cites no authority or studies whatsoever that are supportive of the position that raptors would be highly unlikely to nest in the 30-40 foot tall street trees currently located on the Project Site.

The FEIR's responses to comments also fail to address Local 713's comments regarding the broad and variable nature of bird nesting season in California, as noted by CDFW, and the propensity for some birds in some locales to nest year-round. This failure to address this issue, in the form of added analysis and revised mitigation efforts, perpetuates the EIR's deficiencies on this issue.

Accordingly, Local 713 resubmits that the nesting period and survey plan set forth in the MM-BIO-1 must, at a minimum, be revised to account for CDFW's findings pertaining to the variable and/or year-round bird nesting season within the Project's geographic region, and that the FEIR must provide the requisite support for its conclusions regarding raptor nesting being improbable in the impacted street trees. Absent such revision, the proposed mitigation measure and, by extension, the EIR will remain in direct violation of the CEQA Guidelines.

### 4. The FEIR's Noise/Vibration Mitigation Measures Remain Inadequate and Fail to Incorporate Requisite Analysis

The Project's DEIR finds that construction of the Project will result in a potentially significant impact with respect to groundborne vibration. Specifically, the DEIR indicates that the Project's construction would generate groundborne vibration that would exceed thresholds of structural damage at nearby existing buildings. (DEIR at p. 4.3-18.) In an effort to address these potential significant impacts, the DEIR implements Mitigation Measure NOI-2, which states as follows:

**Static Roller Requirement.** The project applicant and/or its construction contractors shall use of [sii] a static roller in lieu of a vibratory roller for paving activities within 15 feet of the existing off-site buildings to the north and west of the project site. City staff shall verify

City of San Leandro, 880 Doolittle Drive Project February 6, 2025 Page 25 of 26

that this requirement is incorporated into construction plans prior to issuance of a building permit and verified in the field.

DEIR at p. 4.3-20.

However, Local 713 resubmits that the calculations associated with MM-NOI-2 do not include any analysis of the impacts of vibratory roller use between 10 feet and 25 feet of distance from existing off-site buildings. (See Appendix F to DEIR at pp. 3-5, Table 1.) Meanwhile, MM-NOI-2 only requires use of a static (non-vibratory) roller within 15 feet of neighboring sensitive receptors. Thus, the EIR's analysis with regard to MM-NOI-2 remains inadequate to support the measure, in that the DEIR does not clearly indicate that the vibration caused by use a vibratory roller starting at 15 feet of distance from neighboring structures would be less than the prescribed threshold of 0.5 in/sec PPV for vibration-induced structural damage. Moreover, the DEIR also does not otherwise provide a clear delineation for the minimum safe distance for use of a vibratory roller in the context of proximity to off-site structures.

The City's responses to comments in the FEIR on this issue do not address Local 713's concern. (See FEIR, pp. 508-509.) In that regard, the FEIR focuses on the fact that a static, non-vibratory roller used at a distance of 15 from nearby structures will not exceed the threshold for structural damage at those structures. (Id.) While that may ultimately be true, Local 713's concern on this issue is that the DEIR and MM-NOI-2 would permit the Project's use of vibratory rollers at distances of greater than 15 feet from neighboring structures, and the DEIR's analysis does not adequately confirm that the use of a vibratory roller at a distance of 16-25 feet from neighboring structures does not present a significant risk of structural damage (i.e., significant vibration impact). Based on the current requirements of MM-NOI-2, the EIR must still conduct further analysis of the potential vibration that would result from the use of a vibratory roller between the distances of 15 feet and 25 feet from neighboring structures, and assess whether the use of a vibratory roller at that range of distances would exceed the vibration-induced structural damage threshold of 0.5 in/sec. To the extent that Project is likely to exceed the vibration-induced structural damage threshold at those distances, further mitigation measures will be required for the Project to comply with CEQA.

Accordingly, further analysis is required to demonstrate that no significant impact will occur to neighboring industrial structures via use of vibratory roller starting at 15 feet distance away and greater. The EIR must be revised and recirculated to reflect this

City of San Leandro, 880 Doolittle Drive Project February 6, 2025 Page 26 of 26

appropriate analysis, and MM-NOI-2 should be adjusted accordingly, if necessary, in order to protect neighboring structures from damage.

### IV. CONCLUSION

Based on the foregoing concerns, the City cannot permissibly certify the EIR for the Project in its current form, and, at a minimum must revise and recirculate the EIR for the Project pursuant to CEQA. Absent doing so, the EIR in its current form directly violates CEQA in multiple respects. If the City should have any questions or concerns, please do not hesitate to contact this office.

Sincerely,

Jeremy Herwitt

Attorneys for Carpenters Local Union #713

### 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);

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



2656 29<sup>th</sup> Street, Suite 201 Santa Monica, CA 90405

Matt Hagemann, P.G, C.Hg. (949) 887-9013 mhagemann@swape.com

Paul E. Rosenfeld, PhD (310) 795-2335 prosenfeld@swape.com

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

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." 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>

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

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

<sup>&</sup>lt;sup>3</sup> "CalEEMod User's Guide." CAPCOA, November 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/01">http://www.aqmd.gov/docs/default-source/caleemod/01</a> 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):

"VMT<sub>d</sub> =  $\Sigma$ (Average Daily Trip Rate  $_i$  \* Average Overall Trip Length  $_i$ )  $_n$ 

Where:

n = Number of land uses being modeled."5

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

"Emissionspollutant = VMT \* EFrunning, pollutant

Where:

Emissions<sub>pollutant</sub> = emissions from vehicle running for each pollutant

VMT = vehicle miles traveled

EF<sub>running,pollutant</sub> = emission factor for running emissions."6

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. 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. The default number of construction-related worker trips is calculated by multiplying the

<sup>&</sup>lt;sup>4</sup> "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/02">http://www.aqmd.gov/docs/default-source/caleemod/02</a> appendix-a2016-3-2.pdf?sfvrsn=6, p. 14-15.

<sup>&</sup>lt;sup>5</sup> "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/02">http://www.aqmd.gov/docs/default-source/caleemod/02</a> appendix-a2016-3-2.pdf?sfvrsn=6, p. 23.

<sup>&</sup>lt;sup>6</sup> "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/02">http://www.aqmd.gov/docs/default-source/caleemod/02</a> appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.

<sup>&</sup>lt;sup>7</sup> "CalEEMod User's Guide." CAPCOA, November 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/01">http://www.aqmd.gov/docs/default-source/caleemod/01</a> 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 <u>location</u> and <u>urbanization</u> selected on the project characteristic screen. These values were <u>supplied by the air districts or use a default average for the state</u>. 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>

Worke	r 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
<b>Mountain Counties</b>	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
Average	16.47	11.17
Minimum	10.80	10.80
Maximum	19.80	14.70
Range	9.00	3.90

<sup>&</sup>lt;sup>9</sup> "CalEEMod User's Guide." CAPCOA, November 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/01">http://www.aqmd.gov/docs/default-source/caleemod/01</a> user-39-s-guide2016-3-2 15november2017.pdf?sfvrsn=4, p. 34.

<sup>10 &</sup>quot;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, p. 15.

<sup>&</sup>lt;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, p. 14.

<sup>12 &</sup>quot;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, p. 21.

<sup>&</sup>lt;sup>13</sup> "Appendix D Default Data Tables." CAPCOA, October 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/05">http://www.aqmd.gov/docs/default-source/caleemod/05</a> 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. 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	
Without Local Hire Provision	
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
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized Construction GHG Emissions (MT CO <sub>2</sub> e/year)	100.80
% Decrease in Construction-related GHG Emissions	17%

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>&</sup>lt;sup>14</sup> "Appendix D Default Data Tables." CAPCOA, October 2017, available at: <a href="http://www.aqmd.gov/docs/default-source/caleemod/05">http://www.aqmd.gov/docs/default-source/caleemod/05</a> 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,

M Huxuu— Matt Hagemann, P.G., C.Hg.

Paul Rosenfeld

Paul E. Rosenfeld, Ph.D.

Location Type	Location Name	Rural H-W (miles)	Urban H-W (miles)
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

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County	Nevada	16.8	10.8
County	Orange	19.8	14.7
County	Placer-Lake	16.8	10.8
County County	Placer-Mountain Placer-	16.8 16.8	10.8 10.8
•	Plumas	16.8	10.8
County			
County County	Riverside- Riverside-	16.8 19.8	10.8 14.7
County	Riverside-Salton	14.6	14.7
•	Riverside-South	19.8	
County			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
Average	16.47	11.17
Mininum	10.80	10.80
Maximum	19.80	14.70
Range	9.00	3.90

Attachment B

CalEEMod Version: CalEEMod.2016.3.2

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Date: 1/6/2021 1:52 PM

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

Days) 33	2028		9000
Precipitation Freq (Days)	Operational Year		N2O Intensity (lb/MWhr)
2.2			0.029
Wind Speed (m/s)		nia Edison	CH4 Intensity
Urban	o o	Southern California Edison	702.44
Urbanization	Climate Zone	Utility Company	CO2 Intensity (Ib/MWhr)

# 1.3 User Entered Comments & Non-Default Data

Date: 1/6/2021 1:52 PM Page 2 of 44 CalEEMod Version: CalEEMod.2016.3.2

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.

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

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_				<del>,</del>	,						,						<del>,</del>
3.20	57.65	6.39	5.83	4.13	6.41	65.80	3.84	62.64	9.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.95	72.16	25.24	6,59	6.65	11.03	127.15	8.17	89.95	42.70	1.25	48.75	1.25	48.75	25.00	25.00	09'666	999.60
SU_TR	SU_TR	su_tr	WD_TR	NumberCatalytic	NumberCatalytic	NumberNoncatalytic	NumberNoncatalytic	WoodstoveDayYear	WoodstoveDayYear	WoodstoveWoodMass	WoodstoveWoodMass						
tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tbIVehicleTrips	tbtVehicleTrips	tblVehicleTrips	tbl/ehicleTrips	tblVehicleTrips	tblVehicleTrips	tbIVehicleTrips	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves

2.0 Emissions Summary

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2.1 Overall Construction Unmitigated Construction

c02e		214.6993	1,724.918 7	1,630.492 5	53.1082	1,724.918 7
NZO		0.0000	0.0000	0.0000	0.0000	0.000.0
СН4	ıyı.	0.0601	0.1294	0.1185	8.0200e- 003	0.1294
Total CO2	LM	213.1969	1,721.682 6	1,627.529 5	52.9078	1,721.682 6
Bio- CO2 NBio- CO2 Total CO2		0.0000 213.1969	1,721.682 6	1,627.529 5	52.9078	1,721.682 1,721.682 6 6
Bio- CO2		0.0000	0.000.0	0.0000	0.0000	0.000.0
PM2.5 Total		0.2549	0.4588	0.4138	0.0147	0.4588
Exhaust PM2.5		0.0754	0.1128	0.0935	6.0400e- 003	0.1128
Fugitive PM2.5		0.1795	0.3460	0.3203	8.6300e- 003	0.3460
PIM10 Total		0.4986	1.4259	1.2959	0.0390	1.4259
Exhaust PM10	tons/yr	0.0817	0.1201	9660.0	6.4700e- 003	0.1201
Fugitive PM10	fou	0.4169	1.3058	1.1963	0.0325	1.3058
S02		2.4000e- 003	0.0189	0.0178	5.9000e- 004	0.0189
တ		1.8242 1.1662	6.1625	5.6747	0.2810	6.1625
NOX		1.8242	4.1142	3.3649	0.1335	4.1142
ROG		0.1713	0.6904	0.6148	4.1619	4.1619
	Year	2021	2022	2023	2024	Maximum

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2.1 Overall Construction Mitigated Construction

Exhaust   PM10   Fugitive   Exhaust   PM2.5   Bio CO2   NBio CO2   Total CO2   CH4   N20   N20	Territoria (1)	111 / 11					$\overline{}$	
ROG   NOX   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM25   PM25   Total   PM25   Bio-CO2   NBio-CO2   Total CO2   CH4	11 11 11 11		214.6991	1,724.918 3	1,630.492	53.1082	1,724.918	C02e
ROG   NOX   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM25   PM25   Total   PM25   Bio-CO2   NBio-CO2   Total CO2   CH4	N2O		0.0000	0.0000	0.0000	0.0000	0.0000	N20
ROG   NOx   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM2.5   PM2.5   Total	сн4	M.	0.0601	0.1294	0.1185	8.0200e- 003	0.1294	
ROG   NOx   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM2.5   PM2.5   Total	Total CO2	MT	213.1967	1,721.682	1,627.529	52.9077	1,721.682	otal CO2
ROG   NOx   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM2.5   PM2.5   Total	NBio-CO2			1,721.682 3	1,627.529 1	52.9077	1,721.682	Bio-CO2 T
ROG   NOx   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM2.5   PM2.5   Total	Bio-CO2		0.0000	•		0.0000	0.0000	Bio-CO2 N
ROG   NOX   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM10   Total   PM2.5   PM2.5	PM2.5 Total		0.2549	0.4588	0.4138	0.0147	0.4588	
ROG   NOX   CO   SO2   Fugitive   Exhaust   PM10   Fugitive   FM25   FM25   FM25   FM35   FM25   F	Exhaust PM2.5		0.0754	0.1128	;	6.0400e- 003	0.1128	
ROG   NOX   CO   SO2   Fugitive   Exhaust   PM10   Total	Fugitive PM2.5		0.1795	0.3460	0.3203	8.6300e- 003	0.3460	
ROG   NOX   CO   SO2   Fugitive   Exhaust	PM10 Total		0.4986	1.4259	1.2959		1.4259	11.13
ROG   NOX   CO   SO2   Fugitive	Exhaust PM10	síyr	0.0817	0.1201	0.0996	6.4700e- 003	0.1201	
0.1713 1.8242 1.1662 0.6904 4.1142 6.1625 0.6148 3.3648 5.6747 4.1619 0.1335 0.2810 4.1619 4.1142 6.1625	Fugitive PM10	(ou	0.4169	1.3058			1.3058	
0.1713 1.8242 1.1662 0.6904 4.1142 6.1625 0.6148 3.3648 5.6747 4.1619 0.1335 0.2810 4.1619 4.1142 6.1625	S02		2.4000e- 003	0.0189	0.0178	5.9000e- 004	0.0189	202
0.1713 0.6904 0.6148 4.1619 4.1619	တ		1.1662	6.1625	5.6747	0.2810		တ
	NOX		1.8242	4.1142	3.3648	0.1335	4.1142	
Year 2021 2022 2023 2024 2024	ROG		0.1713	0.6904	0.6148	4.1619	4.1619	ROG
		Year	2021	2022	2023	2024	Maximum	

N20 CO2e	0.00 0.00			Τ	Γ		Ī	<u> </u>	<u> </u>	ľ
CH4	0.00	quarter)								
Total CO2	0.00	VOX (tons/								
NBio-CO2	0.00	ed ROG + I	1.4103	1.3613	1.1985	1.1921	1.1918	1.0774	1.0320	1.0260
Bio- CO2 NBio-CO2 Total CO2	00.0	Maximum Mitigated ROG + NOX (tons/quarter)		:						
PM2.5 Total	0.00	Max				:				
Exhaust PM2.5	0.00	quarter)								
Fugitive PM2.5	0.00	Maximum Unmitigated ROG + NOX (tons/quarter)								
PIM10 Total	0.00	ated ROG +	1.4103	1,3613	1.1985	1.1921	1.1918	1.0774	1.0320	1.0260
Exhaust PM10	0.00	ım Unmitiga								
Fugitive PM10	0.00	Maximu								
S02	0.00	End Date	11-30-2021	2-28-2022	5-31-2022	8-31-2022	11-30-2022	2-28-2023	5-31-2023	8-31-2023
00	0.00	End	11-30	2-28	5-31	8-31	11-30	2-28	5-31	8-31
XON ON	0.00	Start Date	9-1-2021	12-1-2021	3-1-2022	6-1-2022	9-1-2022	12-1-2022	3-1-2023	6-1-2023
ROG	0.00	SE SE	<sub>ф</sub>	12.	ę	هٰ	6	12.	3-	9
	Percent Reduction	Quarter	-	2	6	4	5	9	7	8

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1.0265	2.8857	1.6207	2.8857
1.0265	2.8857	1.6207	2.8857
11-30-2023	2-29-2024	5-31-2024	Highest
9-1-2023	12-1-2023	3-1-2024	
6	10	11	

### 2.2 Overall Operational

**Unmitigated Operational** 

C02e		222.5835	3,913.283 3	7,629.016 2	514.8354	683.7567	12,963.47 51
N2O		3.7400e- 003	0.0468	0.0000	0.0000	0.0755	0.1260
CH4	5.	0.0201	0.1303	0.3407	12.2811	3.0183	15.7904
Total CO2	MTlyr	220.9670	3,896.073 2	7,620.498 6	207.8079	585.8052	12,531.15 19
Bio- CO2 NBio- CO2 Total CO2		220.9670 220.9670	3,896.073 2	7,620.498 7,620.498 6 6	0.000.0	556.6420	12,294.18 07
Bio- CO2		0.0000	0.0000	0.0000	207.8079	29.1632	236.9712
PM2.5 Total		0.0714	9960.0	2.1434	0.0000	0.0000	2.3114
Exhaust PM2.5		0.0714	9960.0	0.0539	0.0000	0.000.0	0.2219
Fugitive PM2.5				2.0895			2.0895
PIM10 Total		0.0714	9960.0	7.8559	0.0000	0.0000	8.0240
Exhaust PM10	síyr	0.0714	0.0966	0.0580	0.0000	0.0000	0.2260
Fugitive PM10	tons/yr			7.7979			6262.2
802		1.6700e- 003	7.6200e- 003	0.0821			0.0914
8		10.3804	0.7770	19.1834			30.3407
×ON		0.2950 10.3804 1.6700e-	1.2312	7.9962			9.5223
ROG		5.1437	0.1398	1.5857			6.8692
	Category	Area	Energy	Mobile	Waste	Water	Total

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2.2 Overall Operational

### Mitigated Operational

Pån Dress	nghiê (178	I	' m	¹.o	• •	• .	
CO2e		222.5835	3,913.283 3	7,629.016	514.8354	683.7567	12,963.47 51
NZO		3.7400e- 003	0.0468	0.0000	0.0000	0.0755	0.1260
СН4	ķ	0.0201	0.1303	0.3407	12.2811	3.0183	15.7904
Total CO2	MTØ	220.9670	3,896.073 2	7,620.498 6	207.8079	585.8052	12,531.15 19
NBio- CO2 Total CO2		220.9670 220.9670	3,896.073 3,896.073 2 2	7,620.498 • 7,620.498 6 6	0.000.0	556.6420	12,294.18 07
Bio-CO2		0.000.0	0.0000	0.000.0	207.8079	29.1632	236.9712
PM2.5 Total		0.0714	0.0966	2.1434	0.000.0	0.000.0	2.3114
Exhaust PM2.5		0.0714	9960.0	0.0539	0.000.0	0.0000	0.2219
Fugitive PM2.5				2.0895			2.0895
PM10 Total		0.0714	0.0966	7.8559	0.0000	0.0000	8.0240
Exhaust PM10	styr	0.0714	9960.0	0.0580	0.0000	0.0000	0.2260
Fugitive PM10	tons/yr			7.7979			7.7979
S02		1.6700e- 003	7.6200e- 003	0.0821			0.0914
95		0.2950 10.3804 1.6700e-	0.7770	19.1834			30.3407
NOX		0.2950	1.2312	7.9962			9.5223
ROG		5.1437	0.1398	1.5857			6.8692
	Category	Area	Energy	Mobile	Waste	Water	Total

CO2e

N20

CH4

Bio- CO2 NBio-CO2 Total CO2

PM2.5 Total

Exhaust PM2.5

Fugitive PM2.5

PM10 Total

Exhaust PM10

Fugitive PM10

802

ဝ

NOX

ROG

0.00

0.00

0.00

0.00

0.00

0.00

0.00

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Percent Reduction

### 3.0 Construction Detail

### **Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Num Days Week	Num Days	Phase Description
	Demolition	tion	9/1/2021	10/12/2021	2	30	
	Site Preparation	eparation		11/9/2021	5	20	1
: : :	Grading	6	11/10/2021	1/11/2022	5	45	1
	Construction	g Construction		12/12/2023	5	500	1
	Paving	 ! ! ! ! !	12/13/2023	1/30/2024	5	35	
; ; ;	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

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Demolition         Concrete/Industrial Saws         1         8.00         81           Demolition         Excavators         3         8.00         158           Demolition         Rubber Tired Dozers         3         8.00         247           Site Preparation         Rubber Tired Dozers         3         8.00         247           Grading         Excavators         2         8.00         187           Grading         Excavators         1         8.00         187           Grading         Graders         2         8.00         187           Grading         Graders         2         8.00         97           Grading         Tractors/Loaders/Backhoes         2         8.00         97           Grading         Tractors/Loaders/Backhoes         3         8.00         89           Building Construction         Tractors/Loaders/Backhoes         3         7.00         97           Building Construction         Tractors/Loaders/Backhoes         3         8.00         46           Building Construction         Weders         4         8.00         46           Building Construction         Tractors/Loaders/Backhoes         3         8.00         46      <	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
on Excavators         5         6.00           on Rubber Tired Dozers         2         8.00         2           saration         Rubber Tired Dozers         4         8.00         2           saration         Tractors/Loaders/Backhoes         2         8.00         7           Construction         Cranes         2         8.00         2           Construction         Cranes         3         8.00         2           Construction         Generator Sets         1         7.00         2           Construction         Tractors/Loaders/Backhoes         3         8.00         7           Construction         Tractors/Loaders/Backhoes         3         7.00         2           Construction         Paving Equipment         2         8.00         7           Paving Equipment         2         8.00         7           Rollers         8.00         7           Rollers         8.00         7           Rollers         8.00         8.00           Rollers         8.00         8.00           Rollers         8.00         8.00           Rollers         8.00         8.00           Rollers         8.00	Demolition	Concrete/Industrial Saws		8.00	81	0.73
on stration         Rubber Tired Dozers         8.00         2         8.00         2         8.00         2         8.00         7         2         8.00         7         8.00         7         8.00         7         8.00         7         8.00         9.00	Demolition	Excavators	(C)	8.00	158	0.38
Saration         Rubber Tired Dozers         4         8.00         2         8.00         7         2         8.00         7         4         8.00         7         7         7         7         7         8         9         9         7         8         9         9         7         9         7         9         8         9	Demolition	Rubber Tired Dozers	2	8.00	247	0.40
variation         Tractors/Loaders/Backhoes         4         8.00           Graders         Excavators         2         8.00         1           Graders         Scrapers         2         8.00         2           Construction         Cranes         2         8.00         2           Construction         Construction         Generator Sets         1         8.00           Construction         Tractors/Loaders/Backhoes         3         8.00           Construction         Tractors/Loaders/Backhoes         3         7.00           Construction         Paving Equipment         2         8.00           Paving Equipment         2         8.00         1           Rollers         8.00         1         8.00           Rollers         8.00         1         8.00           Rollers         8.00         1         6.00	Site Preparation	Rubber Tired Dozers	e	8.00	247	0.40
Excavators         Excavators         2         8.00         7           Graders         Graders         8.00         8         8         8         8         8         8         8         8         8         8         8         8         8         8         8         8         8         8         9         8         9         8         9         9         8         9	Site Preparation	Tractors/Loaders/Backhoes	4	8.00	76	0.37
Construction         Construction         Construction         Construction         Construction         Air Compressors         4 8.00         7.00	Grading	Excavators	2	8.00	158	0.38
Rubber Tired Dozers         1         8.00         2           Scrapers         Scrapers         2         8.00         3           Construction         Forklifts         3         8.00         2           Construction         Forklifts         3         8.00         3           Construction         Tractors/Loaders/Backhoes         1         8.00         1           Construction         Welders         3         7.00         1           Construction         Pavers         2         8.00         1           Paving Equipment         2         8.00         1           Rollers         2         8.00         1           Ari Compressors         1         6.00	Grading	Graders		8.00	187	0.41
Construction   Cranes   Construction   Generator Sets   Construction   Const	Grading	Rubber Tired Dozers		8.00	247	0.40
Tractors/Loaders/Backhoes	Grading	Scrapers	2	8.00	367	0.48
Construction   Cranes	Grading	Tractors/Loaders/Backhoes	2	8.00	26	0.37
Construction         Forklifts         3         8.00           Construction         Tractors/Loaders/Backhoes         3         7.00           Construction         Welders         7         8.00           Construction         Pavers         2         8.00           Paving Equipment         2         8.00           Rollers         2         8.00           Air Compressors         1         6.00	Building Construction	Cranes		7.00	231	0.29
Construction   Generator Sets   1   8.00     Construction   Tractors/Loaders/Backhoes   3   7.00     Construction   Welders   1   8.00     Pavers   Paving Equipment   2   8.00   7     Rollers   Paving Equipment   2   8.00   7     Rollers   Rollers   2   8.00   7     Rollers   Rollers   1   6.00		Forklifts	က	8.00	68	0.20
Construction	Building Construction	Generator Sets	-	8.00	2	0.74
Construction   Welders	Building Construction	Tractors/Loaders/Backhoes	ဇ	7.00	76	0.37
Pavers	Building Construction	Welders		8.00	46	0.45
Paving Equipment  Rollers  2 8.00  4.00  Air Coating  Air Compressors	Paving	Pavers	2	8.00	130	0.42
Rollers 8.00 tural Coating Air Compressors 6.00	Paving	Paving Equipment	2	8.00	132	0.36
Air Compressors		Rollers	2	8.00	80	0.38
		Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Phase Name Offroad Equipment Worker Trip Count Number	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Vendor Trip Hauling Trip Worker Trip Vendor Trip Hauling Trip Worker Vehicle Number Length Length Class	Vendor Hauling Vehicle Class Vehicle Clas	Hauling Vehicle Class
Demolition	φ	15.00	00.00	45	14.70	6.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Site Preparation		18.00	00.0	0.00	14.70	6.90		20.00 LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	00.00		14.70	06.9	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Building Construction	6	801.00	143.00	00.0	14.70	06.9		20.00 LD_Mix	HDT_Mix	HHDT
Paving	9	15.00	00.00	00.00	14.70	06.9	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Architectural Coating	#	160.00	00.0	00.0	14.70	9.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT

## 3.1 Mitigation Measures Construction

3.2 Demolition - 2021

## **Unmitigated Construction On-Site**

N2O CO2e		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0 51.3601	0 51.3601
N20		0.000	0.0000	0.0000
CH4	MT/yr	0.0000	0.0144	0.0144
Total CO2	M	0.0000	51.0012	51.0012 0.0144
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000	51.0012 51.0012 0.0144	51.0012
Bio-CO2		0.0000	0.0000	0.0000
PM2.5 Total		7.5100e- 003	0.0216	0.0291
Fugitive Exhaust PM2.5 PM2.5		0.0496 7.5100e- 0.0000 7.5100e- 003 003	0.0216	0.0216
Fugitive PM2.5		7,5100e- 003		7.5100e- 003
t PM10 Total		0.0496	0.0233	0.0729
Fugitive Exhaust PM10 PM10	tons/yr	0.0000	0.0233	0.0233
Fugitive PM10	tor	0.0496		0.0496
S02			5.8000e- 004	5.8000e- 004
CO			0.3235 5.8000e- 004	0.3235
NOX			0.4716	0.0475 0.4716
ROG			0.0475	0.0475
	Category	Fugitive Dust	Off-Road	Total

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3.2 Demolition - 2021 Unmitigated Construction Off-Site

Programme and the second				-	
CO2e		17.4869	0.0000	2.2267	19.7136
N2O		0.0000	0.0000	0.0000	0.0000
CH4	ι		0.0000	7.0000e- 005	1.2800e- 003
Total CO2	MT/yr	17.4566	0.000.0	2.2251	19.6816
Bio-CO2 NBio-CO2 Total CO2		17.4566 17.4566 1.2100e-	0.0000	2.2251	19.6816
Bio-C02		0.0000	0.000.0	0.0000	0.0000
PM2.5 Total		1.2600 <del>c</del> 003	0.000.0	6.7000e- 004	1.9300e- 003
Exhaust PM2.5		1.8000e- 004	0.0000	2.0000e- 005	2.0000e- 004
Fugitive PM2.5		1.0800e- 003	0.000.0	6.5000e- 2.0 004	1.7300e- 003
PM10 Total		1300e- 003	0.0000	2.4900e 003	6,6200e- 003
Exhaust PM10	s/yr	1.9000e- 004	0.000.0	e- 2.0000e- 005	2.1000e- 004
Fugitive PM10	tons/yr	0.0148 1.8000e- 3.9400e- 004 003	0.000	2.4700	6.4100e- 003
S02		1.8000e- 004	0.000.0	9.7000e- 7.5000e- 8.5100e- 2.0000e- 004 004 003 005	2.0000e- 004
cos co		0.0148	0.000.0	8.5100e- 003	0.0233
NOX		0.0634	0.0000	7.5000e- 004	0.0641
ROG		1.9300e- 0.0634 003	0.0000	9.7000e- 004	2.9000e- 003
	Category	Hauling	Vendor	Worker	Total

## Mitigated Construction On-Site

C02e		0.000.0	51.3600	51.3600
N20		0.000.0	0.0000 51.3600	0.0000 51.3600
CH4	МТУл	0.000.0	0.0144	0.0144
Total CO2	MT	0.000.0	51.0011	51.0011
NBio-CO2		0.0000 0.0000 0.0000 0.0000 0.0000	51.0011 51.0011 0.0144	0.0000 51.0011
Bio-CO2		0.000.0	0.0000	0.0000
PM10         Fugitive         Exhaust         PM2.5         Bio- CO2         NBio- CO2         Total         CH4         N2O           Total         PM2.5         Total         Total		7.5100e- 003	0.0216	0.0291
Exhaust PM2.5		0.0496 0.0000 0.0496 7.5100e- 0.0000 7.5100e- 003 003	0.0216	0.0216
Fugitive PM2.5		7.5100e- 003	,	7.5100e- 003
PM10 Total		0.0496	0.0233	0.0729
Exhaust PM10	tons/yr	0.000.0	0.0233	0.0233 0.0729 7.5100e- 0.0216
Fugitive PM10	noi			0.0496
S02			5.8000e- 004	5.8000e- 004
င္၀			0.3235	0.3235
ROG NOX CO SO2			0.4716	0.0475 0.4716 0.3235 5.8000e-
ROG			0.0475 0.4716 0.3235 5.8000e-	0.0475
	Category	Fugitive Dust	Off-Road	Total

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3.2 Demolition - 2021

## Mitigated Construction Off-Site

C02e		17.4869	0.0000	2.2267	19.7136
OZN		0.0000	0.0000	0.0000	0.0000
СНА	Mit/yr	1.2100e- 003	0.000.0	7.0000e- 005	1.2800e- 003
Total CO2	W	17.4566	0.0000	2.2251	19.6816
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 17.4566 17.4566 1.2100e-	0.0000	2.2251	19.6816
Bio-CO2		0.000.0	0.0000	0.0000	0000
PM2.5 Total		1.2600e- C 003	0.0000	6.7000e- 004	1.9300e- C
Exhaust PM2.5		1.8000e- 004	0.0000	2.0000e- 005	000e- 004
Fugitive PM2.5		1.0800e- 003	0.000.0	6.5000e- 004	1.7300 003
PM10 Total		930	0.000.0	2.4900e- 003	6.6200e- 003
Exhaust PM10		1.9000 004	0.0000	2.0000e- 005	e- 2.1000e- 004
Fugitive PM10	tons/yr	3.9400e- 003	0.0000	2.4700	6.4100 003
S02		1.8000e- 004	0.0000	2.0000e- 005	2.0000e- 004
00		0.0148	0.000	8.5100e- 003	0.0233 2.0000e- 004
XON		1.9300e- 0.0634 0.0148 1.8000e- 3.9400e- 003 004 003	0.000.0	9,7000e- 7,5000e- 8,5100e- 004 003	0.0641
ROG		1.9300e- 003	0.0000	9.7000e- 004	2.9000e- 003
	Category	Hauling	Vendor	Worker	Total

### 3.3 Site Preparation - 2021

## **Unmitigated Construction On-Site**

CO2e		0.000.0	33.7061	33.7061
N2O		0.0000	0.0000	0.0000
CH4	ΛΤίλι	0,0000 0,0000	0.0108	0.0108
Total CO2	MT	0.000.0	33.4357	33.4357
NBio- CO2		0.0000 0.0000	33,4357 33,4357	33.4357
Bio- CO2		0.000.0	0.0000	0.000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		0.0993	0.0188	0.1181
Exhaust PM2.5		0.1807 0.0000 0.1807 0.0993 0.0000 0.0993	0.0188	0.0188
Fugitive PM2.5		0.0993		0.0993
PM10 Total		0.1807	0.0204	0.2011
Exhaus PM10	síýr	0.0000	0.0204	0.0204
Fugitive PM10	tons/yr			0.1807
S02			3.8000e- 004	3.8000e- 004
ငဝ			0.2115	0.2115
ROG NOX CO			0.0389 0.4050 0.2115 3.8000e-	0.4050 0.2115 3.8000e-
ROG			0.0389	0.0389
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

C02e		0.0000	0.0000	1.7814	1.7814
NZO		0.0000 0.0000	0.0000	0.0000	0.000
CH4	λ	0.0000	0.0000	5.0000e- 005	5.0000e- 005
Total CO2	MT/yr	0.000.0	0.0000	1.7801	1.7801
NBio-CO2		0.0000 0.0000 0.0000	0.000.0	1.7801	1.7801
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000	0.000.0	0.000.0
PM2.5 Total		0.0000	0.000.0	5.4000e- 004	5.4000e- 004
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000	0.0000	1.0000e- 5. 005	1.0000e- 005
Fugitive PM2.5		0.0000	0.000.0	5.2000e- 004	5.2000e- 004
PM10 Total		0.000.0	0.000	1.9900 003	1.9900e- 003
Exhaust PM10	tons/yr	0.0000	0.0000	le- 2.0000e- 005	2.0000e- 005
Fugitive PM10	ton	0.0000 0.0000	0.00	1.9700	1.9700e- 003
		0.0000	0.000.0	2.0000e- 005	2.0000e- 005
co soz		0.0000	0.0000	6.8100 <del>e</del> - 003	6.8100e- 003
NOX		0.0000 0.0000 0.0000	0.000.0	7.7000e- 6.0000e- 6.8100e- 2.0000e- 004 004 003 005	7.7000e- 6.0000e- 6.8100e- 2.0000e- 004 003 005
ROG		0.0000	0.0000	7.7000e- 004	7.7000e- 004
	Category	Hauling	Vendor	Worker	Total

## Mitigated Construction On-Site

CO2e		0.0000	33.7060	33.7060
N2O CO2e		0.0000	0.0000	0.0000
CH4	Ŵ	0.0000	0.0108	0.0108
Total CO2	LM.	0.0000	33.4357	33.4357
NBio-CO2		0.0000 0.0000	33.4357	0.0000 33.4357
PMZ.5 Bio-CO2 NBio-CO2 Total CO2 CH4 Total		0.0000	0.0000	
PM2.5 Total		0.0993	0.0188	0.1181
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.0188	0.0188
Fugitive PM2.5		0.0993		0.0993
Exhaust PM10 PM10 Total		0.1807	0.0204	0.2011
Exhaust PM10	tons/yr	1807 0.0000 0.1807	0.0204	0.0204
Fugitive PM10	pol	0.		0.1807
S02			3.8000e- 004	3.8000e- 004
8			0.2115	0.2115
ROG NOx			0.0389 0.4050 0.2115 3.8000e-	0.0389 0.4050 0.2115 3.8000e- 0.1807
ROG			0.0389	0.0389
	Category	Fugitive Dust	Off-Road	Total

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3.3 Site Preparation - 2021
Mitigated Construction Off-Site

.Ze		000	000	314	314
CO2e		0.0000	0.0000	1.7814	1.7814
NZO		0.0000	0.0000	0.0000	0.0000
OH H	W	0.000.0	0.0000	5.0000e- 005	5.0000e- 005
Total CO2	M	0.0000	0.0000	1.7801	1.7801
Bio-CO2 NBio-CO2 Total CO2		0.000.0	0.0000	1.7801	1.7801
Bio-CO2		0.0000	0.0000	0.000	0.000.0
PM2.5 Total		0.0000	0.0000	5.4000e- 004	5.4000e- 004
Exhaust PM2.5		0.0000	0.000.0	1.0000e- 005	1.0000e- 005
Fugitive PM2.5		0.0000	0.000.0	5.2000e- 004	5.2000e- 004
PM10 Total		0.000.0	0.000.0	1.9900e- 003	1.9900e- 003
Exhaust PM10	tons/yr	0.0000	0.000.0	2.0000e- 005	e- 2.0000e- 005
Fugitive PM10	ton	0.0000	0.0000	1.9700e- 003	1.9700 003
S02		0.0000	0.000.0	2.0000e- 005	2.0000e- 005
တ		0.0000	0.0000	6.8100e- 003	6.8100e- 003
×ON		0.0000 0.0000 0.0000	0.0000	7,7000e- 6.0000e- 6.8100e- 2.0000e- 004 004 003 005	7.7000e- 6.0000e- 6.8100e- 2.0000e- 004 004 005
ROG		0.0000	0.000	7.7000e- 004	7.7000e- 004
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2021

Unmitigated Construction On-Site

C02e		0.0000	104.3776	104.3776
N2O		0.0000 0.0000 0.0000	0.0000 104.3776	0.0000
CH4	×	0.0000		0.0335
Total CO2	MT/yr	00000	103.5405	103.5405
VBio-CO2		0.000.0	0.0000 103.5405 103.5405 0.0335	0.0000 103.5405 103.5405 0.0335
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000	0.0000
PM2.5 Total		0.0693	0.0347	0.1040
4 14,1414		0.000.0	0.0347	0.0347
Fugitive Exhaust PM2.5 PM2.5		0.0693		0.0693
PM10 Total		0.1741	0.0377	0.2118
Exhaust PM10 PM10 Total	/уп	1741 0.0000 0.1741 0.0693	0.0377	0.0377
Fugitive PM10	tons/yr	0.1741		0.1741
.so2			1.1800e- 003	1.1800e- 003
03			0.5867	0.5867
ROG NOx CO SO2			0.0796 0.8816	0.8816 0.5867
ROG			0.0796	0.0796
	Category	Fugitive Dust	Off-Road	Total

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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual **Unmitigated Construction Off-Site** 3.4 Grading - 2021

man to a	Exiting the second	_		,	
C02e		0.000	0.0000	3.7607	3.7607
NZO		0.000.0	0.000.0	0.0000	0.000
CH4	УI	0.000	0.0000	1.1000 <del>e</del> - 004	1.1000e- 004
Total CO2	MT/yr	0.000.0	0.0000	3.7579	3.7579
NBio- CO2		0.0000 0.0000	0.000.0	3.7579	3.7579
Bio- CO2		0.0000	0.000.0	0.0000	0.0000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total			00000	1.1400e- 003	1.1400e- 003
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000	0.000.0	3.0000e- 005	3.0000e- 005
Fugitive PM2.5		0.0000	0.000.0	1100e- 003	1.1100e- 003
PM10 Total		0.0000	0.000.0	2000e- 003	4.2000e- 003
Exhaust PM10	síyr	0.0000	0.0000	3.0000e- 4.7 005	3.0000e- 4 005
Fugitive PM10	tons/yr	0.0000	0.000.0	4.1600e- 003	4.1600e- 003
SO2		0.0000	0.000	4 4.0000e- 4 005	4 4.0000e- 005
8		0.0000	000.	0.014	0.014
ROG NOx CO SO2		0.0000 0.0000 0.0000	0.0000	1.6400e- 1.2700e- ( 003 003	1.6400e- 1.2700e- 003 003
ROG		0.0000	0.0000	1.6400 <del>c-</del> 003	1.6400e- 003
	Category	Hauling	Vendor	Worker	Total

(

## Mitigated Construction On-Site

		_		
e205		0.0000	104.3775	104.3775
N20		0.0000	0.0000	0.0000 104.3775
0. 44	ý	0.0000	0.0335	0.0335
Total CO2	MITA	0.000.0	103.5403	103.5403
Bio-CO2   NBio-CO2   Total CO2   CH4   N2O   CO2e		0.0000 0.0000 0.0000 0.0000 0.0000 0.00000	0.0000 103.5403 103.5403 0.0335 0.0000 104.3775	103.5403
Bio- CO2		0.000.0	0.000.0	0.0000
it PM2.5 5 Total		0.0693	0.0347	0.1040 0.0000 103.5403 103.5403
Fugitive Exhaust PM2.5 PM2.5		0.000.0	0.0347	
Fugitive PM2.5		0.0693		0.0377 0.2118 0.0693 0.0347
PM10 Total		0.1741	0.0377	0.2118
Fugitive Exhaust PM10 PM10	s/yr	0.1741 0.0000	0.0377	0.0377
Fugitive PM10	tons/yr	0.1741		0.1741
<b>S</b> 02			1.1800e- 003	1.1800e- 003
ငဝ			0.5867	0.5867
ROG NOx CO			0.0796 0.8816 0.5867	0.0796 0.8816 0.5867 1.1800e-
ROG			0.0796	0.0796
	Category	Fugitive Dust	Off-Road	Total

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3.4 Grading - 2021
Mitigated Construction Off-Site

CO2e		0.000.0	0.0000	3.7607	3.7607
N2O		0.0000	0.0000	0.0000	0.0000
СНД	ъ́у	0.000.0	0.000.0	1.1000 <del>e-</del> 004	1.1000e- 0 004
Total CO2	IW.	0.0000	0.000.0	3.7579	3.7579
Bio-CO2 NBio-CO2 Total CO2		0.0000	0.0000	3.7579	3.7579
Bio- CO2		0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.000.0	1.1400 <del>c-</del> 003	. 1.1400e- 003
Exhaust PM2.5		0.000.0	0.0000	3.0000e- 005	000e-
Fugitive PM2.5		0.0000	0.000.0	1.1100e- 003	1.1100e- 3.0
PM10 Total		0.0000	0.000.0	4.2000e- 003	4.2000e- 003
Exhaust PM10	síyir	0.0000	0.0000	3.0000e- 005	3.0000 005
Fugitive PM10	tons/yr	0.0000	0.0000	4.1600e- 003	4.1600e- 003
co soz		0.0000	0.0000	14 4.0000e- 4 005	0.0144 4.0000e-
တ		0.0000	0.00	0.01	0.0144
×ON		0.0000 0.0000 0.0000	0.0000	.6400e- 1.2700e- 003 003	1.6400e- 1.2700e- 003 003
ROG		0.0000	0.0000	1.6400e- 003	1.6400e- 003
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2022

## Unmitigated Construction On-Site

CO2e		0.0000	19.2414	19.2414
N20		0.0000	0.0000	0.0000
СН4	ý	0.000.0	6.1700e- 003	6.1700e- 003
Total CO2	M	0.000.0	19.0871	19.0871
NBio-CO2		0.000.0	19.0871 19.0871 6.1700e-	19.0871 19.0871 6.1700e-
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		0.0000	00000	0.0000
PM2.5 Total		0.0180	5.2600e- ( 003	0.0233
Exhaust PM2.5		0.000.0	5.2600e- 003	5.2600e- 003
Fugitive PM2.5			 	0.0180
PM10 Total		0.0807 0.0180	5.7200e- 003	0.0865
Exhaust PM10	siyr	0.000.0	5.7200e- 003	5.7200e- 003
Fugitive PM10	tons/yr	0.0807		0.0807
S02.			2.2000e- 004	2.2000e- 004
ဝ၁			0.1017	0.1017
ROG         NOx         CO         SO2         Fugitive         Exhaust         PM10         Fugitive         Exhaust         PM2.5           PM10         Total         PM2.5         PM2.5         Total			0.1360	0.0127 0.1360 0.1017 2.2000e- 0.0807
ROG			0.0127 0.1360 0.1017 2.2000e-	0.0127
	Category	Fugitive Dust	Off-Road	Total

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3.4 Grading - 2022 Unmitigated Construction Off-Site

	E control of the control				
CO2e		0.0000	0.0000	0.6684	0.6684
NZO		0.0000	0.0000	0.0000	0.0000
9. 4.	\$		0.0000	2.0000e- ( 005	2.0000e- 0 005
Total CO2	n/i/m	0.000.0	0.0000	0.6679	0.6679
NBio-CO2		0.0000 0.0000 0.0000 0.0000	0.0000	0.6679	0.6679
Bio-CO2 NBio-CO2 Total CO2		0.0000	0.0000	0.000.0	0.0000
PM2.5 Total		0.000.0	0.0000	2.1000e- 004	2.1000e- 004
Exhaust PM2.5		0.000.0	0.000.0	1.0000e- 2. 005	1.0000e- 005
Fugitive Exhaust PM2.5		0.000 0.0000	0.000	2.0000e- 004	2.0000e- 004
PM10 Total		0.0000	0.0000	e- 7.7000e- 004	7.7000e- 004
Exhaust PM10	síyir	0.0000	0.000	1.0000 005	1.0000e- 005
Fugitive PM10	tons/yr	0.0000	0.0000	)e- 7.7000e- 004	7.7000e- 004
100		0.0000	0.0000	1.0000e- 005	1.0000e- 005
လ		0.0000	0.0000 0.0000	2.4400e- 003	2.4400e- 003
ROG NOX CO SO2		0.0000 0.0000 0.0000	0.0000	2.8000e- 2.1000e- 2.4400e- 1.0000e- 004 004 003 005	2.8000e- 2.1000e- 2.4400e- 004 003
ROG		0.0000	0.0000	2.8000e- 004	2.8000e- 004
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

			·	
C02e		0.0000	19.2414	19.2414
NZO		0.0000	0.0000 19.2414	0.0000
CH4	мтуя	0.0000	6.1700e- 003	6.1700e- 003
Total CO2	TM.	0.0000	19.0871	19.0871
NBio-CO2		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 19.0871 19.0871 6.1700e-	0.0000 19.0871 19.0871 6.1700e-
Bio- CO2   NBio- CO2   Total CO2   CH4		0.0000	0.0000	0.0000
PM2.5 Total		0.0180	5.2600e- 003	0.0233
Exhaust PM2.5			5.2600e- 5.2600e- 003 003	0 5.2600e- 003
Fugitive PM2.5		0.0180		0.0180
PM10 Total		0.0807	5.7200e- 003	0.0865
CO SO2 Fugitive Exhaust PM10 Fugitive PM2.5	s/yr	0.0000	5.7200e- 5.7200e- 003 003	5.7200e- 0 003
Fugitive PM10	tons/y	0.0807		0.0807
S02			2.2000e- 004	2.2000e- 004
ဗ			0.1017	0.1017
ROG NOX			0.1360 0.1017 2.2000e-	0.1360 0.1017 2.2000e-
ROG			0.0127	0.0127
	Category	Fugitive Dust	Off-Road	Total
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3.4 Grading - 2022

Mitigated Construction Off-Site

	_				
CO2e		0.0000	0.0000	0.6684	0.6684
NZO		0.0000	0.0000	0.0000	0.000
	МП/уг	0.000.0	0.0000	2.0000e- 0 005	2.0000e- 005
Total CO2	LΜ	0.0000	0.0000	0.6679	0.6679
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000 0.0000	0.0000	0.6679	0.6679
Bio-CO2		0.0000	0.000.0	0.0000	0000'0
st PM2.5 Total		0.0000	0.0000	2.1000e- 004	2.1000e- 004
Exhaus PM2.6		0.0000 0.0000 0.0000	0000	0000 <del>e-</del> 005	1.0000e- 005
Fugitive PM2.5		0.0000	0.0000	2.0000e- 004	2.0000e- 004
PM10 Total		0.0000	0.0000	)e- 7.7000e- 004	7.7000e- 004
Exhaust PM:10	tons/yr	0.000.0	0.0000	1.0000e- 005	1.0000e- 005
Fugitive PM10	ton	0.000.0	0.0000	7.7000e- 004	7.7000e- 004
s02		0.0000	0.0000	e- 1.0000e- 005	1.0000e- 7.7
NOx CO		0.0000	0.0000	2.4400e- 003	2.4400e- 003
XON		0.0000 0.0000	0.0000	2.8000e- 2.1000e- 2.4400e- 004 004 003	2.8000e- 2.1000e- 2.4400e- 004 003
ROG		0.000.0	0.0000	2.8000e- 004	2.8000e- 004
	Category	Hauling	Vendor	Worker	Total

## 3.5 Building Construction - 2022

## **Unmitigated Construction On-Site**

C02e		294.8881	294.8881
N2O		0.0000 293.1324 293.1324 0.0702 0.0000 294.8881	0.0000 294.8881
CH4	ĵ.	0.0702	0.0702
Total CO2	EW.	293.1324	293.1324
NBio-CO2		293.1324	0.0000 293.1324 293.1324 0.0702
Bio- CO2		0.000.0	0.000.0
PM10         Fugitive PM2.5         Exhaust PM2.5         PM2.5         Bio- CO2         NBio- CO2         Total CO2         CH4         N2O         CO2e		0.0963 0.0963	0.0963
Exhaust PM2.5		0.0963	0.0963
Fugitive PM2.5			
PM10 Total		0.1023	0.1023
Fugitive Exhaust PM10 PM10	sívyr	0.1023 0.1023	0.1023
Fugitive PM10	tons/yr		
S02		3.4100e- 003	3.4100e- 003
တ		2.0700	2.0700
×on		1.9754 2.0700 3.4100e- 003	0.2158 1.9754 2.0700 3.4100e- 003
ROG		0.2158	0.2158
	Sategory.	Off-Road	<b>Total</b>
	රී	P	

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

3.5 Building Construction - 2022
Unmitigated Construction Off-Site

C02e		0.0000	442.6435	967.4773	1,410.120 8
N20		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	0.0000	0.0000 1,410.120 8
	ış,	0.000.0	0.0264	0.0266	0.0530
Total CO2	MTisyr	0.0000	441.9835	966.8117 966.8117	1,408.795 2
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000	441.9835   441.9835	966.8117	0.0000 1,408,795 1,408,795 2 2
Bio-CO2		0.0000	0.0000	0.0000	0.000
PM2.5 Total		0.0000	0.0359	0.3031	0.3390
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	3.0400 <del>c.</del> 003	8.1700e- 003	0.0112
Fugitive PM2.5		0.0000	0.0329	0.2949	0.3278
PM10 Total		0.0000	0.1171	1.1192	1.2363
Exhaust PM10	s/yr	0.0000	3.1800 <del>e-</del> 003	8.8700e- 003	0.0121
Fugitive Exhaust PM10 PM10	tons/yr	0.0000	1140	1.1103	1.2243
N0x C0 S02		0.0000	4.5500e- 0 003	0.0107	0.0152
00		0.0000	0.4580	3.5305	3.9885
NOx		0.0000 0.0000 0.0000	1.6961	0.3066	0.4616 2.0027
ROG		0.0000	0.0527	0.4088	0.4616
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

CO2e		294.8877	294.8877
N2O CO2e		0.0000	0.0000 294.8877
CH4	/yr	0.0702	0.0702
Total CO2	LW.	293.1321	293.1321
NBio-CO2		0.0000 293.1321 293.1321 0.0702 0.0000 294.8877	0.0000 293.1321 293.1321 0.0702
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000
t PM2.5 Total		0.0963	0.0963
Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.0963	0.0963
Fugitive PM2.5			
PM10 Total		0.1023	0.1023
Exhaust PM10	síyr	0.1023 0.1023	0.1023
Fugitive PM10	tons/yr		
S02		3.4100e- 003	3.4100e- 003
င္၀		2.0700 3.4100e- 003	2.0700
NOX		1.9754	1.9754
RoG		0.2158	0.2158
	Category	Off-Road	Total

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

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3.5 Building Construction - 2022
Mitigated Construction Off-Site

C02e		0.0000	442.6435	967.4773	0.0000 1,410.120 8
N2O		0.0000	0.0000	0.0000	0.0000
СН4	ýr	0.000.0	0.0264	0.0266	0.0530
Total CO2	MT/yr	0.000.0	441.9835	966.8117	1,408.795 2
Bio- CO2 NBio- CO2 Total CO2		0.0000 0.0000 0.0000 0.0000	441.9835 441.9835	966.8117	0.0000 1,408,795 1,408,795 2 2
Bio- CO2		0.0000	0.0000	0.0000	0.000.0
PM2.5 Total		0.000.0	0.0359	0.3031	0.3390
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000	3.0400e- 003	8.1700e- 003	0.0112
Fugitive PM2.5		0.0000	0.0329	0.2949	0.3278
PM10 Total		0.0000	0.1171	1.1192	1.2363
Exhaust PM10	tons/yr	0.0000	3.1800e- 003	8.8700e- 003	0.0121
Fugitive PM10	(Ou	0.0000	0.1140	1.1103	1.2243
s02		0.000.0	4.5500e- 0. 003	0.0107	0.0152
တ		0.0000	0.4580	3.5305	3.9885
ROG NOx		0.0000 0.0000 0.0000 0.0000	1.6961	0.3066	0.4616 2.0027
ROG		0.0000	0.0527	0.4088	0.4616
	Category	Hauling	Vendor	Worker	Total

## 3.5 Building Construction - 2023

## **Unmitigated Construction On-Site**

C02e		287.9814	287.9814
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		0.0000 286.2789 286.2789 0.0681 0.0000 287.9814	0.0000 287.9814
CH4	JA,	0.0681	
Total CO2	<u>I</u> W	286.2789	286.2789
NBio-CO2		286.2789	0.0000 286.2789 286.2789 0.0681
Bio-CO2			0.0000
t PM2.5 Total		0.0813 0.0813	0.0813
Exhaus PM2.5		0.0813	0.0813
itive Exhaust PM10 Fugitive			
PM10 Total		0.0864	0.0864
Exhaust PM10	tons/yr	0.0864	0.0864
Fugitive PM10			
SO2		3.3300e- 003	3.3300e- 003
83		2.0061	1.7765 2.0061
ROG NOX		0.1942 1.7765 2.0061 3.3300e-	
ROG		0.1942	0.1942
	Category	Off-Road	Total

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3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Types	i ga en de				I <del>-</del>
N20 C02e		0.0000	418.5624	909.9291	1,328.491 6
NZO		0.000.0	0.0000	0.0000	0.000
CH4	¥	0.000.0	0.0228	0.0234	0.0462
Total CO2	MT/yr	0.000.0	417.9930	909.3439	1,327.336 9
PMZ.5 Bio-CO2 NBio-CO2 Total CO2 Total		0.0000 0.0000 0.0000	417.9930 - 417.9930	909.3439 909.3439	0.0000 1,327.336 1,327.336 9 9
Bio- CO2		0.0000	0.0000	0.0000	00000
PM2.5 Total		0.0000	0.0335	0.2957	0.3292
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	1.4000e- 003	7.7400e- 003	0.3200 9.1400e- 003
Fugitive PM2.5		0.0000	0.0321	0.2879	0.3200
PM10 Total		0.000.0	0.1127	1.0924	1.2051
Exhaust PM10	tons/yr	0.0000	1.4600e- 003	8.4100 <del>e</del> - 003	9.8700e- 003
Fugitive PM10	lon	_	0.1113	1.0840	1.1953
SO2		0.0000	4.3000e- 003	0.0101	0.0144
8		0.0000	0.4011	3.1696	3.5707
NO× CO SO2		0.0000 0.0000 0.0000	1.2511 0.4011 4.3000e- 003	0.2708	0.4135 1.5218
ROG		0.0000	0.0382	0.3753	0.4135
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

8	) I		S02	ugitive Ey	chaust 9M10	PM 10 Total	Fugitive Exhaust PM2.5 PM2.5	Exhaust PM2.5		Bio- CO2	NBio-CO2	PM2.5 Bio- CO2   NBio- CO2   Total CO2   CH4   N2O   CO2e   Total   MT/yr	СНА	NZO	CO26
3.3300e- 003	0.1942 1.7765 2.0061 3.3300e-	3300e- 003	l		0.0864 0.0864	0.0864		0.0813	0.0813 0.0813	0.0000	286.2785	0.0000 286.2785 286.2785 0.0681 0.0000 287.9811	0.0681	0.0000	287.9811
3.3300e- 003	1.7765 2.0061 3.3300e-	3300e- 003			0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	0.0000 286.2785 286.2785 0.0681	0.0681	0.0000 287.9811	287.9811

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

3.5 Building Construction - 2023

### Mitigated Construction Off-Site

o.		0	54	9	<u> </u>
CO2e		0.0000	418.5624	909.9291	1,328.491 6
N2O		0.0000	0.0000	0.0000	0.000
CH4	МТУг	0.0000	0.0228	0.0234	0.0462
Total CO2	IM)	0.0000	417.9930	909.3439 909.3439	1,327.336 9
Bio- CO2 NBio- CO2 Total CO2		0.0000 0.0000 0.0000 0.0000	417.9930 417.9930	909.3439	0.0000 1,327.336 1,327.336 9
		0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.0335	0.2957	0.3292
Exhaust PM2.5		0.000 0.0000 0.0000	1.4000e- 003	7.7400e- 003	0.3200 9.1400e- 003
Fugitive PM2.5		0.0000	0.0321	0.2879	0.3200
PM10 Total		0.0000	0.1127	1.0924	1.2051
Exhaust PM10	tons/yr	0.0000 0.0000.0	1.4600e- 003	8.4100e- 003	9.8700e- 003
Fugitive PM10	(On		0.1113	1.0840	1.1953
<b>20</b> 2		0.0000	4.3000e- 003	0.0101	0.0144
ဝ၁		0.0000	0.4011	3.1696	3.5707
XON.		0.0000 0.0000 0.0000	1.2511	0.2708	1.5218
ROG		0.000.0	0.0382	0.3753	0.4135
	Category	Hauling	Vendor	Worker	Total

### 3.6 Paving - 2023

## Unmitigated Construction On-Site

	i Me	<u>,</u>	; .	۲.
COZe		13.1227	0.0000	13.1227
N2O		0.0000	0.0000	0.000
CH4	MT/yr	0.0000 13.0175 13.0175 4.2100e- 0.0000	0.000.0	4.2100e- 003
Total CO2	M	13.0175	0.0000	13.0175
Bio- CO2   NBio- CO2   Total CO2   CH4		13.0175	0.000.0	13.0175
Bio- CO2		0.000	0.0000	0.000
PM2.5 Total		3.0500e- 3.0500e- 003 003	0.0000	3.0500e- 003
Exhaust PM2.5		3.0500 <del>e</del> 003	0.0000	3.0500e- 003
Fugitive PM2.5				
PM10 Total		3.3200e- 3.3200e- 003 003	0.0000	3.3200e- 003
Exhaust PM10	tons/yr	3.3200e- 003	0.0000	3.3200e- 003
Fugitive PM10	lo			
S02		1.5000e- 004		1.5000e- 004
00		0.0948		0.0948
NO <sub>X</sub>		0.0663		6.7100e- 0.0663 003
ROG		6.7100e- 0.0663 0.0948 1.5000e- 003 004	0.0000	6.7100e- 003
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2023
Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	0.8968	0.8968
N2O			0.0000	0.0000	0.0000
	Į,	0.0000 0.0000	0.0000	2.0000 <del>-</del> 005	2.0000e- 005
Total CO2	MT/yr	0.000.0	0.0000	0.8963	0.8963
NBio-CO2		0.0000 0.0000	0.000.0	0.8963	0.8963
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.000.0	0.0000	0.0000
PM2.5 Bi		0.000.0	0.000.0	2.9000e- 004	2.9000e- 004
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.000.0	0000e- 005	1.0000e- 005
Fugitive PM2.5		0.000.0	0.0000.0	3000e- 004	3000e- 004
PM10 Total		0.0000	0000	)800e- 003	1.0800e- 2.8
Exhaust PM10	styr	0.0000	0.0000	1.0000e- 1.0 005	1.0000e- 005
Fugitive PM10	tons/yr	0.000.0	0.0000	1.0700e- 003	1.0700e- 003
		0.000.0	0.000.0	1.0000e- 005	1.0000e- 005
NOx CO SO2		0.0000	0.0000	3.1200 <del>e-</del> 003	3.1200e- 003
NOX		0.0000 0.0000 0.0000	0.0000	3.7000e 2.7000e 3.1200e 1.0000e- 004 004 003 005	3.7000e- 2.7000e- 3.1200e- 1.0000e- 004 005
ROG		0.0000	0.000.0	3.7000e- 004	3.7000e- 004
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

C02e		13.1227	0.0000	13.1227
N2O		0.0000	0.0000	0.0000
СН4	5	4.2100 <del>c</del> 003	0.000.0	4.2100e- 003
Total CO2	MT/yr	13.0175	0.0000	13.0175
NBio-CO2		0.0000 13.0175 13.0175 4.2100e- 0.0000 13.1227	0.0000	13.0175
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	0.000.0	0.0000
PW2.5 Total		3.0500e-	0.0000	3.0500e- 003 003
Exhaust PM2.5		3.0500e- 3.0500e- 003 003	0.0000	3.0500e- 003
Fugitive PM2.5				
PM10 Fugitive Exhaust Total PM2.5 PM2.5		3.3200e- 003	0.0000	3.3200e- 003
Exhaust PM10	tons/yr	3.3200e- i 3.3200e- 003   003	0.0000	3.3200e- 003
Fugitive PM10	ton			
S02		1.5000e- 004		1.5000e- 004
တ		0.0948		0.0948
ROG NOX CO		0.0663		6.7100e- 0.0663 0.0948 1.5000e- 003 004
ROG		6.7100e- 0.0563 0.0948 1.5000e- 003 004	0.0000	6.7100e- 003
	Category	Off-Road	Paving	Total

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3.6 Paving - 2023
Mitigated Construction Off-Site

P157 14 5 5 4				
	0.0000	0.0000	0.8968	0.8968
	0.0000	0.0000	0.0000	0.0000
ýr.	0.000.0	0.0000	2.0000e- 005	2.0000e- 005
MT		0.0000	0.8963	0.8963
	0.000.0	0.000.0	0.8963	0.8963
	0.0000	0.0000	0.0000	0.000
	0.0000	0.000.0	2.9000e- 004	2.9000e- 004
	0.0000	0.0000	1.0000e-	1.0000e- 005
	0.0000	0.000.0	2.8000e- 004	2.8000e- 004
	0.0000	0.0000	1.0800 <del>c-</del> 003	1.0800 <del>e-</del> 003
slyr	0.0000	0.0000	1.0000 <del>e</del> - 005	1.0000e- 005
, ton		0.0000	1.0700e- 003	1.0700e- 003
	0.000.0	0.000.0	1.0000e- 005	1.0000e- 005
	0.0000	0.000.0	3.1200 <del>c-</del> 003	3.1200e- 003
	0.0000	0.0000	2.7000 <del>c</del> 004	3.7000e- 2.7000e- 3.1200e- 1.0000e- 004 005
	0.0000	0.000.0	3.7000e- 004	3.7000e- 004
Category	Hauling	Vendor	Worker	Total
	Category	0.0000 0.	0.0000 0.	0.0000   0

3.6 Paving - 2024

## **Unmitigated Construction On-Site**

07.7.61 0	e programa a			1
CO2e		22.2073	0.0000	22.2073
NZO		0.0000	0.0000	0.000
CH4		7.1200e- 003	0.0000	7.1200e- 003
Total CO2	MTW	22.0292	0.000.0	22.0292
NBio-CO2		0.0000 22.0292 22.0292 7.1200e-	0.0000	22.0292
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	0.000.0	0.000
PM2.5 Total		4.7400 <del>c</del> 003	0.000.0	- 4.7400e- 003
Exhaust PM2.5		4.7400e 4.7400e 003 003	0.0000	4.7400e- 003
Fugitive PM2.5				
PM10 Total		5.1500e- 003	0.0000	5.1500e- 003
Exhaust PM10	tons/yr	5.1500e- 5.1500e- 003 003	0.0000	5.1500e- 5. 003
Fugitive Exhaust PM10 PM10				
		2.5000e- 004		2.5000e- 004
00		0.1609		0.1609
ROG NOX CO SO2		0.1048		0.1048
ROG		0.0109 0.1048 0.1609 2.5000e-	0.0000	0.0109
	Category	Off-Road	Paving	Total

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3.6 Paving - 2024
Unmitigated Construction Off-Site

		c		' <sub>(0</sub>	۵
C02e		0.0000	0.0000	1.4706	1.4706
NZO		0.0000	0.0000	0.0000	0.0000
CH4	lýr.	0.0000	0.0000	4.0000e- 005	4.0000e- 005
Total CO2	JYJLIN.	0.0000	0.0000	1.4697	1.4697
NBio- CO2		0.000.0 0.000.0	0.0000	1.4697	1,4697
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000	0.000.0	0.0000	0.000
PM2.5 Total		0.000	0.000.0	4.9000 <del>e.</del> 004	4.9000e- 004
Exhaus PM2.		0.0000 0.0000 0.0000 0.0000	0.000.0	0000 <del>e</del> - 005	1.0000e- 005
Fugitive PM2.5		0.0000	0.0000	4.8000e- 004	1.8200e- 4.8000e- 003 004
PM10 Total		0.0000	0.0000	820 <b>0</b> e- 003	1.8200e- 003
Exhaust PM10	tons/yr	0.0000	0.0000	1.0000e- 1. 005	1.0000e- 005
Fugitive PM10	ton	0.000.0	0.0000	1.8100e- 003	1.8100e- 003
S02		0.0000 0.0000 0.0000	0.0000	2.0000e- 005	5.9000e- 4.1000e- 4.9200e- 2.0000e- 004 004 004
ဝ၁		0.0000	0.0000	4.9200e- 003	4.9200e- 003
NOX		0.0000	0.0000	5.9000e- 4.1000e- 4.9200e- 2.0000e- 004 004 003 005	4.1000e- 004
ROG		0.0000	0.0000	5.9000e- 004	5.9000e- 004
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

PM2.5 Bio. CO2 NBio. CO2 Total CO2 CH4 N2O CO2e Total	MTVn	٧.	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 22.0292 22.0292 7.1200e- 0.0000 22.2073 003
PM2.5 Bio Total		~~~	0.000.0	4.7400e- 0.0
Exhaust PM2.5		4.7400e- 4.7400e- 003 003	0.0000	4.7400e- 003
Fugitive PM2.5				
PM10 Total			0.0000	5.1500e- 003
Exhaus PM10	tons/yr	5.1500e- 003	0.0000	5.1500e- 003
Fugitive PM10	loj.			
		2.5000e- 004		2.5000e- 004
CO 802		0.1609		0.1609
ŏ		0.0109 0.1048 0.1609 2.5000e-		0.0109 0.1048 0.1609 2.5000e-
<b>7</b> 06		0.0109	0.0000	0.0109
	Category	Off-Road	Paving	Total

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3.6 Paving - 2024
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	1.4706	1.4706
N2O		0.0000	0.0000	0.0000	0.000
CH4	Vr.	0.0000	0.0000	4.0000e- 0 005	7 4.0000e- 005
Total CO2	NT/y	0.000.0	0.000.0	1.4697	1.4697
NBio-CO2		0.000.0	0.000.0	1.4697	1.4697
Bio CO2 NBio CO2 Total CO2 CH4		0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.000.0	4.9000e- 004	4.9000e- 004
Exhaust PM2.5		0.0000	0.000.0	1.0000e- 005	1.0000e- 005
Fugitive PM2.5		0.0000	0.0000	e- 4.8000e- 004	4.8000e- 004
PM10 Total		0.000.0	0.000.0	. 1.8200e- 003	1.8200e- 003
Exhaust PM10	síyr	0.0000 0.0000	0.000.0	1.0000e- 005	1.0000e- 005
Fugitive PM10	tons/y	٥	0.000.0	1.8100e- 003	1.8100e- 003
co soz		0.0000	0.0000	2.0000e- 005	2.0000e- 005
00		0.0000	0.000.0	4.9200e- 003	4.9200e- 003
NOX		0.0000 0.0000 0.0000	0.000.0	5.9000e- 4.1000e- 4.9200e- 2.0000e- 004 004 003 005	5.9000e- 4.1000e- 4.9200e- 2.0000e- 004 004 005
ROG		0.0000	0.0000	5.9000e- 004	5.9000e- 004
	Category	Hauling	Vendor	Worker	Total

## 3.7 Architectural Coating - 2024

**Unmitigated Construction On-Site** 

e a		00	45	45
C02e		0.0000	4.4745	4.4745
NZO		0.000.0	0.0000	0.000
CH4	Vr.	0.0000	2.5000e- 0. 004	2.5000e- 004
Total CO2	MT/yr	0.0000	4.4682	4.4682 2.5000e- 004
NBio- CO2		0.0000	4.4682	4.4682
Bio- CO2		0.0000	0.0000	0.000.0
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		0.0000	1.0700 <del>c.</del> 003	1.0700e- 003
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000	1.0700e- 003	1.0700e- 003
Fugitive PM2.5				
PM10 Total		0.000.0	1.0700e- 003	1.0700e- 003
Exhaust PM10	tons/yr	0.0000	1.0700e- 003	1.0700e- 003
Fugitive PM10	uoi,			
S02			0.0317 5.0000e- 005	5.0000e- 005
co			0.0317	0.0317
ROG NOX CO			0.0213	4.1404 0.0213
ROG		4.1372	3.1600e- 0.0213 C 003	4.1404
	Category	Archit. Coating 4.1372	Off-Road	Total

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3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	24.9558	24.9558
N2O CO2e		0.0000	0.0000	0.0000	0.0000
CH4	ýr	0.0000	0.0000	6.1000e- 004	6.1000e- 004
Total CO2	MITAN	0.0000	0.0000	24.9407	24.9407
NBio-CO2		0.000.0	0.0000	24.9407	0.0000 24.9407 24.9407
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000 0.0000 0.0000	0.0000	0.0000	0.000
PM2.5 Total		,	0.0000	8.3700e- 003	8.3700e- 003
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	2.2000 <del>c</del> 004	2.2000e- 004
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.0000	8.1500e- 003	8.1500e- 003
PM10 Total		0.0000	0.0000	.0309	0.0309
Exhaust PM10	tons/yr	0.0000	0.0000	2.3000e- C 004	2.3000e- 004
Fugitive PM10	lon	0.0000	0.000.0	0.0307	0:0307
		0.0000	0.000.0	0.0835 2.8000e- 004	2.8000e- 004
8		0.000.0	0.0000	0.0835	0.0835
ROG NOx CO SO2		0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	6.9900e- 003	0.0101 6.9900e- 0.0835 2.8000e- 003 004
ROG		0.0000	0.0000	0.0101	0.0101
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

C02e		0.0000	4.4745	4.4745
NZO		0.0000	0.0000	0.0000
CH4	Уr	0.000.0	2.5000e- 0. 004	2.5000e- 004
Total CO2	MTM	0.0000	4.4682	4.4682 2.5000e-
NBio-CO2		0.0000 0.0000	4.4682	4.4682
Bio-CO2 NBio-CO2 Total CO2 CH4 N20 CO2e		0.0000	0.000.0	0000
PM2.5 Total		0.000.0 0.000.0	1.0700e- 003	1.0700e- 003
Exhaust PM2.5		0.000.0	1.0700 <del>e</del> 003	1.0700e- 003
ugitive PM2.5				
PM10 Total		0.000.0	1.0700e- 003	1.0700e- 003
Fugitive Exhaust PM10 PM10	slyr	0.0000 0.0000	1.0700e- 003	1.0700e- 003
Fugitive PM10	tons/yr			
100000177650			0.0317 5.0000e- 005	5.0000e- 005
zos oo			0.0317	0.0317
ROG NOX			0.0213	4.1404 0.0213 0.0317 5.0000e-
ROG		4.1372	3.1600e- 0.0213 0 003	4.1404
	Category	Archit. Coating 4.1372	Off-Road	Total

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3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	24.9558	24.9558
N20		0.0000	0.0000	0.0000	0.0000
CH4	MT/vr	0.0000 0.0000	0.0000	6.1000e- 004	6.1000e- 004
Total CO2	W	0.000.0	0.0000	24.9407	24.9407
NBio-CO2		0.0000	0.000.0	24.9407	24.9407
PM2.5 Bio- CO2 NBio- CO2 Total CO2 Total		0.0000	00000	0.0000	0.0000
PM2.5 Total		0.0000	0.000.0	8.3700e- 003	e- 8.3700e- 003
Exhaust PM2.5		0.0000	0.000.0	2.2000e- 004	2.2000e- 004
Fugitive PM2.5		0.0000	0.0000	8.1500e- 003	8.1500e- 003
PM10 Total		0.0000	0.0000	0.0309	0.0309
Exhaust PM10	tons/yr	0.0000	0.0000	2.3000e- 004	2.3000e- 004
Fugitive PM10	tou	0.0000	0.0000	0.0307	0.0307
S02		0.0000	0.0000	2.8000e- 0 004	2.8000e- 004
00		0.0000 0.0000 0.0000	0.0000	0.0835	0.0835
ХОN			0.0000	0.0101 6.9900e- 003	0.0101 6.9900e- 003
ROG		0.0000	0.0000	0.0101	0.0101
	Category	Hauling	Vendor	Worker	Total

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

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coze		7,629.016 2	7,629.016 2
N2O CO2e		0.000.0	0.0000
CH4	Y	0.3407	0.3407
Total CO2	MT/	7,620.498 6	7,620.498 6
NBio-CO2		0.0000 7,620.498 7,620.498 0.3407 0.0000 7,629.016 6 2	7,620.498 6
Bio- CO2		0.0000	0.0000 7,620.498 7,620.498 0.3407 0.0000 7,629.016 6 6
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		1	2.1434
1.24		0.0539	
Fugitive Exhaust PM2.5 PM2.5		2.0895	2.0895
PM10 Total		7.8559	7.8559 2.0895 0.0539
gitive Exhaust M10 PM10	W.		0.0580
Fugitive PM10	tons/y		7.7979
S02		0.0821	0.0821
ට		19.1834	19.1834
XON		7.9962	1.5857 7.9962 19.1834 0.0821
ROG		1.5857 7.9962 19.1834 0.0821 7.	1.5857
	Category	Mitigated	Unmitigated

### 4.2 Trip Summary Information

	Aver	Average Daily Trip Rate	ate	Unmitigated	Mitigated
and Use	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

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	% <del>0</del>	Pass-by	က	က	4	43	4	44	11
ty, Annual	Trip Purpose %	Diverted	1	=	19	20	38	18	35
า Coast Coun		Primary	98	98	77	37	28	88	54
Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual		H-W or C-W H-S or C-C H-O or C-NW	40.60	40.60	19.00	19.00	19.00	19.00	19.00
sed) - Los /	Trip %	H-S or C-C	19.20	19.20	48.00	72.50	61.60	00.69	64.70
'lan (Propo		H-W or C-W	40.20	40.20	33.00	8.50	19.40	12.00	16.30
uth Specific F		H-S or C-C H-O or C-NW	8.70	8.70	06.9	6.90	96.90	6.90	6.90
Village Sou	Miles	H-S or C-C	5.90	5.90	8.40	8.40	8.40	8.40	8.40
		H-W or C-W	14.70	14.70	16.60	16.60	16.60	16.60	16.60
		Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down	Hotel	Quality Restaurant	Regional Shopping Center

#### 4.4 Fleet Mix

	1												
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Regional Shopping Center
0.000821	0.000712	0.116369  0.014033  0.006332  0.021166  0.033577  0.002613  0.001817  0.005285  0.000712  0.000821	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.543088 0.044216 0.209971	0.543088	Quality Restaurant
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	43088 0.044216	0.543088	Hotel
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	High Turnover (Sit Down Restaurant)
0.000821	0.000712	0.543088 0.04216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.543088 0.044216 0.2	0.543088	General Office Building
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Apartments Mid Rise
0.000821	0.000712	09971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.543088 0.044216 0.20	0.543088	Apartments Low Rise
MH	SBUS	MHD HHD OBUS MCY SBUS	SNBN	OBUS	HHD	MHD	LHD2	CHD1	MDV LHD1	LDT2	LDA LDT1 LD	LDA	Land Use

### 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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	ROG	ROG NOX	ဝ၁	S02	Fugitive PM10	Fugitive Exhaust PM10 PM10	PM10 Total	Fugitive PM2.5	Fugitive Exhaust PM2.5 PM2.5	PM2.5 Total	Bio- CO2	Bio- CO2 NBio- CO2 Total CO2 CH4	Total CO2	CH4	N2O	C02e
Category					tons/yr	síyr							MT/yr	y		
Electricity Mitigated						0.000.0 0.000.0	0.0000		0.0000	0.0000	0.0000	0.0000 2,512.646 2,512.646 0.1037 0.0215 2,521.635	2,512.646 5	0.1037	0.0215	2,521.635 6
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.646 2,512.646 5	2,512.646 5	0.1037	0.0215	0.0215 2,521.635 6
NaturalGas Mitigated	0.1398	1.2312	0.777	7.6200e- 003		9960.0	9960.0		0.0966	0.0966	0.0000	1,383,426 1,383,426 0.0265	1,383,426 7	0.0265	0.0254	4 1,391.647 8
NaturalGas Unmitigated	0.1398	1.2312	0.777	0 7.6200 <del>e</del> - 003		9960.0	9960.0		0.0966	0.0966	0.0000	0.0000 1,383.426 1,383.426 0.0265	1,383.426 7		0.0254 1,391.647 8	1,391.647 8

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5.2 Energy by Land Use - NaturalGas

#### Unmitigated

C02e		21.9284	701.1408	25.1468	445.9468	93.4557	99.0993	4.9301	1,391.647 8
N20		4.0000e- 004	0.0128	4.6000e- 004	8.1300e- 003	1.7000e- 003	1.8100e- 003	9.0000e- 005	0.0254
CH4	λ.	4.2000 <del>e-</del> 004	0.0134	4.8000e- 004	8.5000e- 003	1.7800e- 003	1.8900e- 003	9.0000e- 005	0.0265
Total CO2	MTlyr	21.7988	696.9989	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio- CO2 NBio- CO2 Total CO2		21.7988	686.969	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio-CO2		0.000	0.000.0	0.0000	0.0000	0.0000	0.000.0	0.000	0.000.0
PM2.5 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960'0
Exhaust PM2.5		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960'0
Fugitive PM2.5									
PM10 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960'0
Exhaust PM10	tońskyr	1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960'0
Fugitive PM10	ton								
S02		1.2000e- 004	3.8400e- 003	1.4000e- 004	2.4400e- 003	5.1000e- 004	5.4000e- 004	3.0000e- 005	7.6200e- 003
တ		8.0100 <del>e</del> - 003	0.2561	0.0193	0.3421	0.0717	0.0760	3.7800 <del>e</del> - 003	0.777.0
XON		0.0188	0.6018	0.0230	0.4072	0.0853	0.0905	4.5000 <del>e</del> - 003	1.2312
ROG		2.2000e- 003	0.0704	2.5300e- 003	0.0448	9.3900e- 003	9.9500e- 003	5.0000e- 004	0.1398
NaturalGa s Use	kBTU/yr	408494	1.30613e +007	468450	8.30736e +006	1.74095e +006	1.84608e +006	91840	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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5.2 Energy by Land Use - NaturalGas

#### Mitigated

0		4	.88	. 8	- 89		33.	<u>.</u> -	4
COZe		21.9284	701.1408	25.1468	445.9468	93.4557	99.0993	4.9301	1,391.647 8
N20		4.0000e- 004	0.0128	4.6000e- 004	8.1300e- 003	1.7000e- 003	1.8100e- 003	9.0000e- 005	0.0254
CH4	MT/yr	4.2000e- 004	0.0134	4.8000e- 004	8.5000e- 003	1.7800e- 003	1.8900e- 003	9.0000e- 005	0.0265
Total CO2	W	21.7988	696.9989	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio- CO2 NBio- CO2 Total CO2		21.7988	696.9989	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio-CO2		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
PM2.5 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000 <del>6</del> 004	0.0966
Exhaust PM2.5		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960.0
Fugitive PM2.5									
PM10 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960.0
Exhaust PM10	tons/yr	1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900 <del>e</del> - 003	6.8800e- 003	3.4000e- 004	9960.0
Fugitive PM10	tor								
s02		1.2000e- 004	3.8400e- 003	1.4000e- 004	2.4400e- 003	5.1000e- 004	5.4000e- 004	3.0000e- 005	7.6200e- 003
9		8.0100e- 003	0.2561	0.0193	0.3421	0.0717	0.0760	3.7800e- 003	0.7770
XON		0.0188	0.6018	0.0230	0.4072	0.0853	0.0905	4.5000e- 003	1.2312
ROG		2.2000e- 003	0.0704	2.5300e- 003	0.0448	9.3900e- 003	9.9500e- 003	5.0000e- 004	0.1398
NaturalGa s Use	квтилл	408494	1.30613e +007	468450	8.30736e +006	1.74095e +006	1.84608e +006	91840	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit 8.30736e Down Restaurant) +006	Hotel	Quality Restaurant	Regional Shopping Center	Total

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5.3 Energy by Land Use - Electricity

#### **Unmitigated**

C02e		33.8978	1,262.086 9	186.9165	508.1135	175.9672	112.9141	241.7395	2,521.635 6
N2O	MT/yr	2.9000e- 004	0.0107	1.5900e- 003	4.3200e- 003	1.5000e- 003	9.6000e- 004	2.0600e- 003	0.0215
СН4	LW.	1.3900e- 003	0.0519	7.6900e- 003	0.0209	7.2400e- 003	4.6500e- 003	9.9400e- 003	0.1037
Total CO2		33.7770	1,257.587 9	186.2502	506.3022	175.3399	112.5116	240.8778	2,512.646 5
Electricity Use	kWh/yr	106010	3.94697e +006	584550	1.58904e +006	550308	353120	756000	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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5.3 Energy by Land Use - Electricity

Mitigated

CO2e		33.8978	1,262.086 9	186.9165	508.1135	175.9672	112.9141	241.7395	2,521.635 6
N2O	MT/yr	2.9000e- 004	0.0107	1.5900e- 003	4.3200e- 003	1.5000e- 003	9.6000e- 004	2.0600e- 003	0.0215
СН4	<u>I</u> W	1.3900e- 003	0.0519	7.6900e- 003	0.0209	7.2400e- 003	4.6500e- 003	9.9400e- 003	0.1037
Total CO2		33.7770	1,257.587 9	186.2502	506.3022	175.3399	112.5116	240.8778	2,512.646 5
Electricity Use	kwhyr	106010	3.94697e +006	584550	1.58904e +006	550308	353120	756000	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Fotal

6.0 Area Detail

### 6.1 Mitigation Measures Area

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0.0714 0.0000 220.9670 220.9670 0.0201 3.7400e 222.5835 0.0000 220.9670 220.9670 0.0201 3.7400e 222.5835 C02e NZO CH4 MT/yr Total CO2 NBio-CO2 Bio-CO2 0.0714 0.0714 PM2.5 Total Exhaust PM2.5 Fugitive PM2.5 0.0714 0.0714 PM10 Total 0.0714 0.0714 Exhaust PM10 tons/yr Fugitive PM10 Unmitigated 5.1437 0.2950 10.3804 1.6700e-0.2950 10.3804 1.6700e-202 ဗ ŏ 5.1437 ROG Mitigated Category

6.2 Area by SubCategory

Unmitigated

				,		_
C02e		0.0000	0.0000	205.3295	17.2540	222.5835
N20		0.0000	0.0000	3.7400e- 003	0.0000	3.7400e- 003
CH4	į.	0.0000	0.0000	3.9100e- 003	0.0161	0.0201
Fotal CO2	TWT/W	0.000.0	0.0000		16.8504	220.9670
Bio-CO2 NBio-CO2 Total CO2		0.000.0	0.000.0	204.1166 204.1166	16.8504	220.9670
Bio-CO2		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5. Total		0.000.0	0.000.0	0.0143	0.0572	0.0714
Exhaust PM2.5		0.000.0	0.000.0	0.0143	0.0572	0.0714
Fugitive PM2.5			   			
PM10 Total		0.0000	0.000.0	0.0143	0.0572	0.0714
Exhaust PM10	tons/yr	0.0000	0.000.0	0.0143	0.0572	0.0714
Fugitive PM10	ton					
S02				1.1200e- 003	5.4000e- 004	1.6600e- 003
8				0.0750	10.3054 5.4000e- 004	10.3804
NOX				0.1763	0.1187	0.2950
ROG		0.4137	4.3998	0.0206	0.3096	5.1437
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

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

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6.2 Area by SubCategory

Mitigated

F 2004	EXTRACT	_	-			T
CO2e		0.0000	0.0000	205.3295	17.2540	222.5835
N2O		0.0000	0.0000	3.7400e- 003	0.0000	3.7400e- 003
CH4	MTlyr	0.0000	0.0000	3.9100e- 003	0.0161	0.0201
Total CO2	M	0.000.0	0.0000	204.1166	16.8504	220.9670
Bio- CO2 NBio- CO2 Total CO2		0.000.0	0.0000	204,1166 204,1166	16.8504	220.9670
Bio-CO2		0.000.0	0.000.0	0.0000	0.0000	0.0000
PM2.5 Total		0.000.0	0.0000	0.0143	0.0572	0.0714
Exhaust PM2.5		0.0000	0.0000	0.0143	0.0572	0.0714
Fugitive PM2.5						
PM10 Total		0.0000	0.0000	0.0143	0.0572	0.0714
Exhaust PM10	tons/yr	0.0000	0.0000	0.0143	0.0572	0.0714
Fugitive PM10	(Ou					
s02				1.1200e- 003	5.4000e- 004	1.6600e- 003
8				0.0750	10.3054	10.3804
XON				0.1763	0.1187	0.2950
ROG		0.4137	4.3998	0.0206	0.3096	5.1437
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

### 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

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C02e	683.7567	683.7567	
N20	0.0755	0.0755	
CH4 MTV	3.0183	3.0183	
Total CO2 CH4	585.8052	585.8052	
Category	Mitigated	Unmitigated	

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

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7.2 Water by Land Use

#### Unmitigated

						_			
C02e		12.6471	493.2363	61.6019	62.8482	7.5079	13.9663	31.9490	683.7567
NZO	MT/yr	1.3400e- 003	0.0523	6.5900e- 003	8.8200e- 003	1.0300e- 003	1.9600e- 003	3.4200e- 003	0.0755
CH4	M	0.0535	2.0867	0.2627	0.3580	0.0416	0.0796	0.1363	3.0183
Total CO2		10.9095	425.4719	53.0719	51.2702	6.1633	11.3934	27.5250	585.8052
Indoor/Out door Use	Mgal	1.62885 / 1.02688	63.5252 / 40.0485	7.99802 / 4.90201	10.9272 / 10.697482	1.26834 / 0.140927	2.42827 / 0.154996	4.14806 / 2.54236	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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

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7.2 Water by Land Use

Mitigated

C02e		12.6471	493.2363	61.6019	62.8482	7.5079	13.9663	31.9490	683.7567
N20	MT/yr	1.3400e- 003	0.0523	6.5900e- 003	8.8200e- 003	1.0300e- 003	1.9600e- 003	3.4200e- 003	0.0755
CH4	LW.	0.0535	2.0867	0.2627	0.3580	0.0416	0.0796	0.1363	3.0183
Total CO2		10.9095	425.4719	53.0719	51.2702	6.1633	11.3934	27.5250	585.8052
Indoor/Out door Use	Mgal	1.62885 / 1.02688	63.5252 / 40.0485	7.99802 / 4.90201	10.9272 / 0.697482	1.26834 / 0.140927	2.42827 / 0.154996	4.14806 / 2.54236	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Tumover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

### 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

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

#### Category/Year

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

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8.2 Waste by Land Use

#### Unmitigated

						_			
C02e		5.7834	225.5513	21.0464	215.4430	13.7694	3.6712	29.5706	514.8354
N20	МТУл	0.000.0	0.0000	0.000.0	0.0000	0.0000	0.000.0	0.0000	0.0000
CH4	<b>L</b> W	0.1380	5.3804	0.5021	5.1393	0.3285	0.0876	0.7054	12.2811
Total CO2		2.3344	91.0415	8.4952	86.9613	5.5579	1.4818	11.9359	207.8079
Waste Disposed	tons	11.5	448.5	41.85	428.4	27.38	7.3	58.8	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	ligh Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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

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### 8.2 Waste by Land Use

#### Mitigated

C02e		5.7834	225.5513	21.0464	215.4430	13.7694	3.6712	29.5706	514.8354
N2O	MT/yr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CH4	MI	0.1380	5.3804	0.5021	5.1393	0.3285	0.0876	0.7054	12.2811
Total CO2		2.3344	91.0415	8.4952	86.9613	5.5579	1.4818	11.9359	207.8079
Waste Disposed	tons	11.5	448.5	41.85	428.4	27.38	7.3	58.8	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

### 9.0 Operational Offroad

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### 10.0 Stationary Equipment

## Fire Pumps and Emergency Generators

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#### Boilers

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### **User Defined Equipment**

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### 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	Lot Acreage Floor Surface Area Population	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 Climate Zone	Urban 9	Wind Speed (m/s)	2.2	Precipitation Freq (Days) Operational Year	33 2028
Utility Company	Southern California Edison	5			
CO2 Intensity (Ib/MWhr)	702.44	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	900.0

# 1.3 User Entered Comments & Non-Default Data

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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.

Lable Name	Column Name	Barren Darameter	Now Well-Wash
			New value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	00.0
tblFireplaces	NumberWood	1.25	00.0
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehideTrips	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
tblVehideTrips	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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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

3.20	57.65	6.39	5.83	4.13	6.41	65.80	3.84	62.64	9.43	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00
5.95	72.16	25.24	6.59	6.65	11.03	127.15	8.17	89.95	42.70	1.25	48.75	1.25	48.75	25.00	25.00	99660	99.666
SU_TR	SU_TR	SU_TR	WD_TR	NumberCatalytic	NumberCatalytic	NumberNoncatalytic	NumberNoncatalytic	WoodstoveDayYear	WoodstoveDayYear	WoodstoveWoodMass	WoodstoveWoodMass						
tblVehicleTrips	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves									

2.0 Emissions Summary

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

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2.1 Overall Construction (Maximum Daily Emission)

### **Unmitigated Construction**

CO2e		6,283.535 2	15,278.52 88	14,833.15 21	2,379.342	15,278.52 88
Nzo		0.0000	0.0000	0.0000	0.0000	0.000.0
СНД	(b/day	1.9495	1.9503	1.0250	0.7177	1.9503
Total CO2	y <b>q</b> ı	6,234.797 4	15,251.56 15,251.56 74 74	14,807.52 14,807.52 69 69	2,361.398 2,361.398 9	15,251.56 74
Bio- CO2 NBio- CO2 Total CO2		0.0000 6,234.797 6,234.797 4 4 4	15,251.56 74	14,807.52 69	2,361.398 9	15,251.56 15,251.56 74 74
Bio- CO2		0.0000	0.0000	0.0000	0.0000	0.000
PM2.5 Total		11.8664	5.1615	3.3702	0.5476	11.8664
Exhaust PM2.5		1.8824	1.5057	0.7322	0.4322	1.8824
Fugitive PM2.5		9.9840	3.6558	2.6381	0.4743	9.9840
PM10 Total		20.3135	10.7727	10.6482	1.8628	20.3135
Exhaust PM10	lb/day	2.0461	1.6366	0.7794	0.4698	2.0461
Fugitive PM10	lb/c	18.2675	9.8688	9.8688	1.7884	18.2675
S02		0.0643	0.1517	0.1472	0.0244	0.1517
တ		31.6840	49.5629	46.7567	15.1043	49.5629
NOX		4.2769 46.4588 31.6840 0.0643	38.8967 49.5629	26.3317 46.7567	9.5575	237.1630 46.4588 49.5629
ROG		4.2769	5.3304	4.8957	237.1630 9.5575	237.1630
	Year	2021	2022	2023	2024	Maximum

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

2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

C02e		6,283.535	15,278.52 88	14,833.15 20	2,379.342	15,278.52 88
N20		0.0000	0.000	0.0000	0.0000	0.0000
CH4	lay	1.9495	1.9503	1.0250	0.7177	1.9503
Total CO2	Ib/day	6,234.797 4	15,251.56 74	14,807.52 69	2,361.398 9	15,251.56 74
Bio-CO2 NBio-CO2 Total CO2		6,234.797 6,234.797 4 4	15,251.56 15,251.56 74 74	14,807.52 69	2,361.398 9	15,251.56 74
Віс- СО2		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		11.8664	5.1615	3.3702	0.5476	11.8664
Exhaust PM2.5		1.8824	1.5057	0.7322	0.4322	1.8824
Fugitive PM2.5		9.9840	3.6558	2.6381	0.4743	9.9840
PM10 Total		20.3135	10.7727	10.6482	1.8628	20.3135
Exhaust PM10	lay	2.0461	1.6366	0.7794	0.4698	2.0461
Fugitive PM10	lb/day	18.2675	9.8688	9.8688	1.7884	18.2675
S02		0.0643	0.1517	0.1472	0.0244	0.1517
03		31.6840	49.5629	26.3317 46.7567	15.1043	49.5629
NOx		4.2769 46.4588 31.6840 0.0643	38.8967	26.3317	9.5575	46.4588
ROG		4.2769	5.3304	4.8957	237.1630 9.5575	237.1630
	Year	2021	2022	2023	2024	Maximum

٦	
C02e	0.00
N20	0.00
CH4	0.00
Total CO2	0.00
Bio- CO2 NBio-CO2 Total CO2 CH4	0.00
Bio- C02	00.0
PM2.5 Total	00.0
Exhaust PM2.5	0.00
Fugitive PM2.5	00'0
PM10 Total	0.00
Fugitive Exhaust PM10 PM10 PM10 Total	0.00
JE 13.2%	00'0
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00	0.00
NOX	00.0
ROG	0.00
	Percent Reduction

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

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2.2 Overall Operational Unmitigated Operational

C02e		0.3300 18,259.11	8,405.638 7	50,361.12 08	77,025.87 86
NZO		0.3300	0.1532		0.4832 77,025.87 86
CH4	Are	0.4874	0.1602	2.1807	2.8282
Total CO2	lb/day	18,148.59 50	8,355.983 2		76,811.18 16
Bio- CO2 NBio- CO2 Total CO2		0.0000 18,148.59 18,148.59 0.4874 50 50	8,355,983 8,355,983 0.1602 2 2	50,306.60 50,306.60 34 34	0.0000 76,811.18 76,811.18 16 16
Bio-CO2		0.0000	· · · · · · · · · · · · · · · · · · ·		0.000
PM2.5 Total		1.5974	0.5292	12.6070	14.7336
Exhaust PM2.5		1.5974	0.5292	0.3119	2.4385
Fugitive PMZ.5:			<b></b>	12.2950	48.4217 12.2950
PM10 Total		1.5974	0.5292	46.2951	48.4217
Exhaust PM10	lay	1.5974	0.5292	0.3360	2.4626
Fugitive PM10	lb/day			45.9592	45.9592
S02		0.0944	0.0418	0.4917	0.6278
တ		88.4430	4.2573	114.8495	207.5497
XON		30.5020 15.0496 88.4430 0.0944	6.7462	45.4304 114.8495 0.4917	67.2262 207.5497
ROG		30.5020	0.7660	9.8489	41.1168
	Category	Area	Energy	Mobile	Total

### Mitigated Operational

					······································
CO2e		18,259.11 92	8,405.638 7	50,361.12 08	77,025.87 86
NZO		0.3300	0.1532	i             	0.4832
CH4	biday	0.4874	0.1602	2.1807	2.8282
Total CO2	)/gl	18,148.59 50	8,355.983	50,306.60 34	76,811.18 16
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O		0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 92	8,355,983 8,355,983 2 2	50,306.60 50,306.60 34 34	0.0000 76,811.18 76,811.18 16 16
Bio-CO2		0.0000			0.0000
PM2.5 Total		1.5974	0.5292	12.6070	14.7336
Exhaust PM2.5		1.5974	0.5292	0.3119	2.4385
Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5				12.2950	12.2950
PM10 Total		1.5974	0.5292	46.2951	48.4217
Exhaust PM10	lay	1.5974	0.5292	0.3360	2.4626 48.4217
Fugitive PM10	lb/day			45.9592	45.9592
S02		0.0944	0.0418	0.4917	0.6278
00		88.4430	4.2573	114.8495	207.5497
ROG NOX CO		30.5020 15.0496 88.4430 0.0944	0.7660 6.7462	9.8489 45.4304 114.8495 0.4917	41.1168 67.2262 207.5497
ROG		30.5020	0.7660	9.8489	41.1168
	Category	Area	Energy	Mobile	Total

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

C02e	0.00
NZO	0.00
CH4	0.00
Bio-CO2 Total CO2	0.00
NBio-c02	00'0
Bio- CO2 NB	0.00
PM2.5 Total	0.00
Exhaust PM2.5	00'0
Fugitive PM2.5	0.00
PM10 Total	0.00
Exhaust PM10	0.00
Fugitive PM10	0.00
<b>SO2</b>	0.00
ဝ၁	0.00
NOX	0.00
ROG	00'0
	Percent Reduction

### 3.0 Construction Detail

### **Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End-Date Num Days Num Days Week	Num Days Week	Num Days	Phase Description
<del></del>	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	1
က	Grading	Grading	11/10/2021	1/11/2022	5	45	) ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
4	Building Construction	Building Construction		12/12/2023	5	200	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
9	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

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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	<del>1</del>	8.00	81	0.73
Demolition	Excavators	8 1 1 1 1 1 1 1 1 1	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	ε	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		8.00	187	0.41
Grading	Rubber Tired Dozers		8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	16	0.37
Building Construction	Cranes		7.00	231	0.29
Building Construction	Forklifts	ဇ	8.00	89	0.20
Building Construction	Generator Sets		8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	e	7.00	16	0.37
Building Construction	Welders		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	9.00	78	0.48

**Trips and VMT** 

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

Phase Name	Phase Name Offroad Equipment Worker Trip Count Number	Worker Trip Number		Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	/endor Trip         Hauling Trip         Worker Vehicle           Number         Length         Length         Class	Vehide Class Vehicle Class	Hauling Vehicle Class
Demolition	9	15.00	00.00	458.00	14.70	6.90		20.00 LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	00.00	0	14.70	6.90		20.00 LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	00.0	00.0	14.70	6.90	! ! !	20.00 LD_Mix	HDT_Mix	HHDT
Building Construction	6	801.00	143.00	00.0	14.70	6.90		20.00 LD_Mix	HDT_Mix	HHDT
Paving	9	15.00	00.0	0.00	14.70	06:9		20.00 LD_Mix	HDT_Mix	ННОТ
Architectural Coating		160.00	00.00	0.00	14.70	6.90	20.00 LD	20.00 LD_Mix	HDT_Mix	HHDT

# 3.1 Mitigation Measures Construction

3.2 Demolition - 2021

C02e		0.000	3,774.317	3,774.317 4
CH4	lay		1.0549	1.0549
Total CO2	lb/day	0.0000	3,747.9 <b>44</b> 9	3,747.944 3,747.944 9 9
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O			3,747.944 3,747.944 9 9	3,747.944 9
Bio-CO2				
PM2.5 Total		0.5008	1.4411	1.9419
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000 3.3074 0.5008 0.0000 0.5008	1.4411	1.4411
Fugitive PM2.5		0.5008		0.5008
PM10 Total		3.3074	1.5513	1.5513 4.8588
Exhaust PM10	ilay		1.5513	
Fugitive PM10	lb/day	3.3074		3.3074
S02			0.0388	0.0388
03			31.4407 21.5650 0.0388	21.5650
ROG NOx			31.4407	3.1651 31.4407 21.5650
ROG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

3.2 Demolition - 2021

# **Unmitigated Construction Off-Site**

4 N20 C02e		77 1,294.433	00000	0e- 3	27 1,465.375
Bio- CO2 NBio- CO2 Total CO2 CH4	lb/day	1,292.241 1,292.241 0.0877 3	0000.0 0.0000 0.0000	170.8155 170.8155 5.0300e-	1,463.056 1,463.056 0.0927
5. Bio- CO2 NBio-			0.000.0		
Exhaust PM2.5 Bi		0.0120 0.0852	0.0000 0.0000	1,2500e- 0,0457 003	0.0133 0.1309
PM10 Fugitive Total PM2.5		2795 0.0732	0.000.0 0.000.0	0.1690 0.0445	0.4485 0.1176
Exhaust PM10	Ib⁄ɗay	.2669 0.0126 0.2795	0.0000	1.3500e- 0.1 003	0.0139
Fugitive PM10	qı	0.2669	0.0000	0.1677	0.4346
co   sos		0.0119	0.0000	1.7100e- 003	0.0136
		0.9602	0.0000	0.6042	4.1394 1.5644
×ON		0.1273 4.0952 0.9602 0.0119	0.0000	0.0442	
ROG		0.1273	0.0000	0.0643	0.1916
	Category	Hauling	Vendor	Worker	Total

112 M				,
CO2e		0.0000	3,774.317 4	3,774.317 4
NZO			• • • • • • • • • • • • • • • • • • •	
2 2 2	X		1.0549	1.0549
otal CO2	/lib/day	0.0000	,747.944 9	
IBio- CO2 1			0.0000 3,747.944 3,747.944 9 9	0.0000 3,747.944 3,747.944 9 9
Bio- CO2   NBio- CO2   Total CO2   CH4			0.000.0	0.0000
PM2:5 Total		0.5008	1.4411	1.9419
Exhaust PM2.5		0.0000 0.5008	1.4411	1.4411
Fugitive Exhaust PM2.5 PM2.5		0.5008		0.5008
PM10 Total		0.0000 3.3074	1.5513	
Exhaust PM10	ay	0.000.0	1.5513	1.5513 4.8588
Fugitive Exhaust PM10 PM10	lb/day	3.3074		3.3074
S02			0.0388	0.0388
8				
ROG NOx			31.4407 21.5650	3.1651 31.4407 21.5650
ROG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

3.2 Demolition - 2021

### Mitigated Construction Off-Site

C02e		1,294.433 7	0.0000	170.9413	1,465.375 0
NZO			 	 	
CH4	lay	0.0877	0.0000	5.0300e- 003	0.0927
Total CO2	lb/day	1,292.241 1,292.241 0.0877	0.0000	170.8155	1,463.056 8
Bio- CO2 NBio- CO2 Total CO2		1,292.241 3	0.000.0	170.8155	1,463.056 1,463.056 8 8
Bio- CO2			1 1 1 1 1 1 1 1 4	: : : : : : :	
PM2.5 Total		0.0852	0.0000	0.0457	0.1309
Exhaust PM2.5		0.0120	0.0000	1.2500e- 003	0.0133
Fugitive PM2.5		0.0732	0.0000	0.0445	0.1176
PM10. Total		0.2795	0.0000	0.1690	0.4485
Exhaust PM10	lb/day	0.0126	0.0000	1.3500e- 003	0.0139
Fugitive PM10	/qt	0.2669	0.0000	0.1677	0.4346
S02		0.0119	0.0000	0.6042 1.7100e- 003	0.0136
03			0.0000	0.6042	4.1394 1.5644
ROG NOx		0.1273 4.0952	0.0000	0.0442	4.1394
ROG		0.1273	0.0000	0.0643	0.1916
	Category	Hauling	Vendor	Worker	Total

#### 3.3 Site Preparation - 2021

		٥	57	25
CO2e		0.0000	3,715.457	3,715.457 3
NZO			,               	
CH4	\hat{e}		1.1920	1.1920
Total CO2	lb/day	0.000.0	3,685.656 9	3,685.656 9
NBio-CO2			3,685,656 3,685.656 9 9	3,685.656 3,685.656 9
Bio-CO2 NBio-CO2 Total CO2 CH4				
PM2.5 Total		9.9307	1.8809	11.8116
Fugitive Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.000.0	1.8809	1.8809
Fugitive PM2.5		0.0000 18.0663 9.9307		9.9307
PM10 Total		18.0663	2.0445	20.1107
Exhaust PM10	lb/day	0.0000	2.0445	2.0445
Fugitive PM10	lb/c	18.0663		3.8882 40.4971 21.1543 0.0380 18.0663
S02			0.0380	0.0380
ROG NOx CO S02			40.4971 21.1543 0.0380	21.1543
NOx			40.4971	40.4971
ROG			3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

C02e		0.0000	0.0000	205.1296	205.1296
N2O CO2e			   	2	2
	ay	0.000	0.0000	6.0400e- 003	6.0400e- 003
Bio-CO2 NBio-CO2 Total CO2 CH4	lb/day	0.0000 0.0000	0.0000	204.9786 204.9786	204.9786 204.9786
NBio-CO2		0.000.0	0.0000	204.9786	204.9786
Bio- CO2					
PM2.5 Total		0.000.0	0.000.0	0.0549	0.0549
Fugitive Exhaust PM2.5		0.0000	0.000.0	1.5000e- 003	1.5000e- 003
Fugitive PM2.5		0.000.0	0.000.0	0.0534	0.0534
PM10 Total		0.0000	0.0000	0.2028	0.2028
Exhaust PM10	lb/day	0.0000	0.0000	2 1.6300e- 003	2 1.6300e- 003
Fugitive PM10	/gl	0.0000	0.000	0.201;	0.2012
S02		0.0000	0.0000	2.0600e- 003	2.0600e- 003
100000000000000000000000000000000000000		0.0000	0.0000	0.7250	0.7250
NOX CO		0.0000 0.0000 0.0000	0.0000	0.0530	0.0530
ROG		0.0000	0.0000	0.0772	0.0772
	Category	Hauling	Vendor	Worker	Total

C02e		0.0000	3,715.457 3	3,715.457 3
N2O CO2e				
CH4	ay		1.1920	1.1920
Total CO2	lb/day	0.0000	3,685.656 9	3,685.656 9
NBio-CO2			0.0000 3,685.656 3,685.656 1.1920	0.0000 3,685.656 3,685.656 9
Bio- CO2			0.0000	0.0000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		9.9307	1.8809	11.8116
Fugitive Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.000.0	1.8809	1.8809
Fugitive PM2.5		9.9307		9.9307
PM10 Total		0.0000 18.0663	2.0445	20.1107 9.9307
Exhaust PM10	lb/day		2.0445	2.0445
Fugitive PM10	lb/	18.0663		18.0663
S02			0.0380	0.0380
တ			21.1543	21.1543
ROG NOx			40.4971 21.1543 0.0380	3.8882 40.4971 21.1543 0.0380 18.0
ROG			3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021
Mitigated Construction Off-Site

1888 C			<del></del>	<u>ا</u> پ	٥
CO2e		0.0000	0.0000	205.1296	205.1296
NZO					
CH4	lay	0.0000	0.0000	6.0400e- 003	6.0400e- 003
Total CO2	lb/day	0.0000 0.0000	0.0000	204.9786	204.9786 204.9786
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	204.9786	204.9786
Bio-CO2					
PM2.5 Bi		0.0000	0.000.0	0.0549	0.0549
Exhaust PM2.5		0.0000	0.0000	1.5000e- 003	1.5000e- 003
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000	0.000.0	0.0534	0.0534
PM10 Total		0.0000	0.0000	0.2028	0.2028
Exhaust PM10	lb/day	0.0000 0.0000	0.0000	1.6300e- 003	1.6300e- 003
Fugitive PM10	)/gl	0.0000	0.0000	0.2012	0.2012
<b>S</b> 02		0.0000	0.000.0	2.0600e- C 003	0.7250 2.0600e- 003
တ		0.0000	0.0000	0.7250	0.7250
NOX		0.0000 0.0000 0.0000	0.0000	0.0530	0.0530
ROG		0.0000	0.0000	0.0772	0.0772
	Category	Hauling	Vendor	Worker	Тотаі

3.4 Grading - 2021

T22. 000 1 5 3	To see the leading			
NZO. CO2e		0.0000	6,055.613 4	6,055.613 4
N20.				
CH4	<b>S</b>		1.9428	1.9428
Total CO2	lb/day	0.0000	6,007.043	6,007.043 4
NBio-CO2			6,007.043 6,007.043 1.9428 4 4	6,007.043 6,007.043 1.9428 4 4
Bio-CO2				
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		3.5965	1.8265	5.4230
CO SO2 Fugitive Exhaust PM10 Fugitive Exhaust PM10 70tal PM2.5 PM2.5		0.000.0	1.8265	1.8265
Fugitive PM2.5			   	3.5965
PM10 Total		0.0000 8.6733 3.5965	1.9853	10.6587
Exhaust PM10	lay	0.000.0	1.9853	1.9853
Fugitive PM10	lb/day	8.6733		8.6733
S02			0.0620	0.0620
င္ပ			30.8785	30.8785
ROG NOX			46.3998	46.3998
ROG			4.1912 46.3998	4.1912
	Саtедогу	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021 Unmitigated Construction Off-Site

<del>(77)</del>					_
C02e		0.0000	0.0000	227.9217	227.9217
NZO					
CH4	Á	0.000.0	0.000.0	6.7100e- 003	6.7100e- 003
Fotal C@2	lb/day	0.0000 0.00000 0.00000	0.000.0	227.7540	227.7540
Bio-CO2		0000.0	0.000.0	227.7540	227.7540 227.7540 6.7100e-
Bio-CO2 NBio-CO2 Total CO2			 	L	
PM2.5 Total		0.0000	00000	0.0610	0.0610
Exhaust PM2.5		0.0000	0.0000	1.6600e- 003	1.6600e- 003
Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.0000 0.0000	0.000.0	0.0593	0.0593
PM10 Total		0.0000	0.0000	0.2254	0.2254
Exhaust PM10	lay	0.0000	0.000.0	1.8100e- 003	1.8100e- 003
Fugitive PM10	lb/day	0.0000	0.0000	3.2236	0.2236
<b>SO</b> 2		0.0000	0.0000	0.8056 2.2900e- (	2.2900e- 003
တ		0.0000 0.0000 0.0000	0.0000	0.8056	0.8056
ŇOŇ		0.0000	0.0000	0.0589	0.0589
ROG		0.0000	0.0000	0.0857	0.0857
	Category	Hauling	Vendor	Worker	Total

CO2e		0.000	6,055.613 4	6,055.613
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O Total	ay		1.9428	1.9428
Total CO2	lb/day	0.0000	0.0000 6,007.043 6,007.043 1.9428 4 4	0.0000 6,007.043 6,007.043 4 4
NBio-CO2			6,007.043 4	6,007.043 4
Bio-CO2			0.0000	
PM2.5 Total		3.5965	1.8265	5.4230
Fugitive Exhaust PM2.5 PM2.5		0.0000	1.8265	1.8265
Fugitive PM2.5		3.5965		3.5965
PM10 Total		8.6733	1.9853	10.6587
Exhaust PM10	lb/day.	8.6733 0.0000 8.6733 3.5965	1.9853	1.9853
Fugitive PM10	/gl	8.6733		8.6733
S02			0.0620	0.0620
NOX CO			30.8785	30.8785
XON			4.1912 46.3998 30.8785	4.1912 46.3998 30.8785
ROG			4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

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3.4 Grading - 2021

### Mitigated Construction Off-Site

CO2e		0.0000	0.0000	227.9217	227.9217
NZO					
CH4	lb/day	0.0000	0.0000	6.7100e- 003	6.7100e- 003
Total CO2	)/GI	0.0000 0.0000 0.0000	0.0000	227.7540 227.7540 6.7100e-	227.7540 227.7540
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	227.7540	227.7540
Bio-CO2			; ; ; ; ;		
PM2.5 Total		0.0000	0.0000	0.0610	0.0610
Exhaust PM2.5		0.000 0.0000 0.0000	0.0000	1.6600e- 003	1.6600e- 003
Fugitive PM2.5		0.0000	0.0000	0.0593	0.0593
PM10 Total		0.0000	0.0000	0.2254	0.2254
Exhaust PM10	lb/day	0.0000 0.0000	0.0000	1.8100e- 003	1.8100e- 003
Fugitive PM10	//qi	0.0000	0.0000	0.2236	0.2236
S02		0.0000	0.0000	2.2900e- 003	2.2900e- 003
တ		0.0000	0.0000	0.8056	0.8056
NOX		0.0000 0.0000 0.0000	0.000.0	0.0589	0.0589 0.8056 2.2900e-
ROG		0.0000	0.0000	0.0857	0.0857
	Category	Hauling	Vendor	Worker	Total

#### 3.4 Grading - 2022

DALKET ETVELL	Pagaras		1	
C02e		0.0000	6,060.015	6,060.015 8
NZO				:
CH4	Á		1.9442	1.9442
Total CO2	lb/day	0.0000	6,011.410 6,011.410 1.9442 5 5	6,011.410 6,011.410 1.9442 5 5
NBio-CO2			6,011.410	6,011.410
Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e				
PM2.5 Total		3.5965	1.5041	5.1006
Exhaust PM2.5		3.5965 ; 0.0000 ; 3.5965	1.5041	1.5041
Fugitive PM2.5		3.5965	         	3.5965
PM10 Total		0.0000 8.6733	1.6349	10.3082
Exhaust PM10	lb/day	0.000.0	1.6349	1.6349
Fugitive Exhaust PM10 PM10	)/gl	8.6733		8.6733
			0.0621	0.0621
00			29.0415	29.0415
ROG NOx CO SO2			38.8435 29.0415	3.6248 38.8435 29.0415 0.0621 8.6733
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

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3.4 Grading - 2022
Unmitigated Construction Off-Site

0,317,477	Naci (Alay				T
CO2e		0.0000	0.0000	219.8941	219.8941
N2O				           	
CH4	Хe	0.0000	0.000.0	6.0600e- 003	6.0600e- 003
Bio-CO2 NBio-CO2 Total CO2 CH4	(kep/qi	0.0000	0.0000	219.7425 219.7425	219.7425 219.7425
NBio- CO2		0.000.0	0.0000	219.7425	219.7425
Bio- CO2			1 1 1 1 1 1		
r PM2.5 Total		0.0000	0.000.0	0.0609	0.0609
Exhaus PM2.5		0.0000	0.0000	1.6100e- 003	1.6100e- 003
Fugitive PM2.5		0.0000 0.0000	0.0000	0.0593	0.0593
PM10 Total		0.0000	0.0000	0.2253	0.2253
Exhaust PM10	lb/day	0.0000	0.0000	1.7500e- 003	1.7500e- 003
Fugitive PM10	/qı	0.0000	0.0000	0.2236	0.2236
S02		0.0000	0.0000	0.7432 2.2100e- 0 003	0.7432 2.2100e- 003
လ		0.0000	0.0000	0.7432	
ROG NOx CO SO2		0.0000 0.0000 0.0000	0.000.0	0.0532	0.0532
ROG		0.0000	0.0000	0.0803	0.0803
	Category	Hauling	Vendor	Worker	Total

### Mitigated Construction On-Site

	n ar er ser		<b>.</b>	
CO2e		0.0000	6,060.015 8	6,060.015 8
NZO			           	
CH4	V		1.9442	1.9442
Fotal CO2	lb/day	0.0000	6,011.410 5	6,011.410 5
Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e			0.0000 6,011.410 6,011.410 1.9442 5 5	0.0000 6,011.410 6,011.410 1.9442 5
Bio-CO2				0.0000
PM2.5 B Total		3.5965	1.5041	5.1006
Exhaust PM2.5		0.000.0	1.5041	1.5041
PM10 Fugitive Exhaust Total PM2.5 PM2.5		8.6733 0.0000 8.6733 3.5965 0.0000		3.5965
PM10 Total		8.6733	1.6349	10.3082
Exhaust PM10	lb/day	0.000.0	1.6349 1.6349	1.6349
Fugitive PM10	lb/c	8.6733		8.6733
S02			0.0621	0.0621
00			29.0415	29.0415
XON			3.6248 38.8435 29.0415	3.6248 38.8435 29.0415 0.0621
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

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3.4 Grading - 2022

Mitigated Construction Off-Site

989-701 DV	To profession	ı			
C02e		0.0000	0.0000	219.8941	219.8941
NZO					
СН4	ay	0.0000	0.0000	6.0600e- 003	6.0600e- 003
Total CO2	lb/day	0.000.0	0.0000	219.7425 219.7425	219.7425 219.7425
Bio-CO2 NBio-CO2 Total CO2		0.0000	0.0000	219.7425	219.7425
Bio-CO2			! ! !		
PM2.5 Total		0.000.0	0.0000	0.0609	0.0609
Exhaust PM2.5		0.0000	0.0000	1.6100e- 003	1.6100e- 003
Fugitive PM2:5		0.0000	0.0000	0.0593	0.0593
PM10 Total		0.0000	0.0000	0.2253	0.2253
Exhaust PM10	b/day	0.000 0.0000	0.0000	1.7500 <b>e-</b> 003	1,7500e- 003
Fugitive PM10	/qı	0.000.0	0.0000	0.2236	0.2236
S02		0.0000	0.0000	2.2100e- C 003	0.7432 2.2100e- 003
NO× CO		0.0000	0.000.0	0.7432	0.7432
XON		0.000 0.0000 0.0000	0.0000	0.0532	0.0532
ROG		0.0000	0.0000	0.0803	0.0803
	Category	Hauling	Vendor	Worker	Total

# 3.5 Building Construction - 2022

CO2e		2,569.632 2	2,569.632 2
N20			
CH4	yday.	0.6120	0.6120
Total G02	)/gi	2,554.333 2,554.333 0.6120 6 6	2,554.333 2,554.333 0.6120 6 6
NBio-CO2		2,554,333 6	2,554.333 6
Bio-CO2			
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4		0.7612	0.7612
Fugitive Exhaust PM2.5 PM2.5		0.7612 0.7612	0.7612
Fugitive PM2.5			
PM10 Total		0.8090	0.8090
Fugitive Exhaust PM10 PM10	lb/day	0.8090 0.8090	0.8090
Fugitive PM10	Ip/		
S02		0.0269	0.0269
00		16.3634	16.3634
NOX		1.7062 15.6156 16.3634 0.0269	1.7062 15.6156 16.3634
ROG		1.7062	1.7062
	Category	Off-Road	Total

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

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3.5 Building Construction - 2022
Unmitigated Construction Off-Site

<del> </del>	F-22-241 :				
C02e		0.000.0	3,902.138 4	8,806.758 2	12,708.89 66
N2O				               	:
CH4	lay	0.0000	0.2236	0.2429	0.4665
Total CO2	lb/day	0.0000 1 0.0000 1 0.0000	3,896.548 3,896.548 2 2	8,800.685 7	12,697.23 12,697.23 39 39
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	3,896.548 2	8,800.685 7	12,697.23 39
Bio-CO2					
PM2.5 Total		0.000.0	0.2873	2.4390	2.7263
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0237	0.0646	0.0883
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9404	9.0234	9.9637
Exhaust PM10	b/day	0.0000	0.0248	0.0701	0.0949
Fugitive PM10	/qi	0.0000	0.9155	8.9533	8898'6
S02		0.0000	0.0364	0.0883	0.1247
တ္သ		0.0000	3.4341	2.1318 29.7654	33.1995
NOx CO SO2 Fugitive PM10		0.0000 0.0000 0.0000	0.4079 13.2032 3.4341	2.1318	3.6242   15.3350   33.1995   0.1247
ROG		0.0000	0.4079	3.2162	3.6242
	Category	Hauling	Vendor	Worker	Total

CO2e		2,569.632 2	2,569.632 2
NZO			
CH4	â	0.6120	0.6120
Fotal CO2	Ib/day	2,554.333 6	2,554.333 6
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		2,554.333	0.0000 2,554.333 2,554.333 0.6120
Bio-co2 1		0.000.0	0.0000
PM2.5 Total		0.7612 0.7612 0.0000 2.554.333 2.554.333 0.6120	0.7612
Exhaust PM2.5		0.7612	0.7612
Fugitive Exhaust PM2.5 PM2.5			
PM10 Total		0.8090	0.8090
ugitive Exhaust PM10 PM10 PM10 Total	ay	0.8090 0.8090	0.8090
Fugitive PM10	lb/day		
802		0.0269	0.0269
8		16.3634	16.3634
×ON		1.7062 15.6156 16.3634 0.0269	1.7062 15.6156
ROG		1.7062	1.7062
	Category	Off-Road	Total
		ľ	

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

3.5 Building Construction - 2022

Mitigated Construction Off-Site

G 515 89	Berras en 200				
CO2e		0.0000	3,902.138 4	8,806.758 2	12,708.89 66
NZO					
CH4	,	0.0000	0.2236	0.2429	0.4665
Fotal CO2	lb/day	0.000.0	3,896.548 2		12,697.23 39
Bio- CO2   NBio- CO2   Total CO2   CH4		0.000.0	3,896.548 3,896.548 2 2	8,800.685 8,800.685 7	12,697.23 12,697.23 39 39
Bio-CO2			 		
PM2.5 Total		0.0000	0.2873	2.4390	2.7263
Exhaust PM2.5		0.0000	0.0237	0.0646	0.0883
Fugitive Exhaust PM2.5 PM2.5		00000 000000 000000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9404	9.0234	9.9637
Exhaust PM10	lb/day	0.0000	0.0248	0.0701	0.0949
Fugitive PM10	)QI	0	0.9155	8.9533	8898'6
S02		0.0000	0.0364	0.0883	0.1247
00		0.0000	3.4341	29.7654	33.1995
ROG NOx CO SO2		0.0000 0.0000 0.0000	0.4079 13.2032	2.1318	3.6242 15.3350 33.1995
ROG		0.0000	0.4079	3.2162	3.6242
	Category	Hauling	Vendor	Worker	Total

# 3.5 Building Construction - 2023

CO2e		2,570.406	2,570.406 1
N2O CO2e			
CCH4	lb/day	0.6079	0.6079
Total CO2	//qI	2,555.209 2,555.209 0.6079	2,555.209 2,555.209 0.6079
NBio-CO2		2,5 <b>5</b> 5.209	2,555.209 9
Bio-CO2			
PM2.6 Bio-CO2 NBio-CO2 Total CO2 CH4 Total		0.6584	0.6584
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.6584 0.6584	0.6584
Fugitive PM2.5			
PM10 Total		0.6997	0.6997
Exhaust PM10	b/day	0.6997 0.6997	2669'0
Fugitive PM10	/qı		
S02		0.0269	0.0269
တ္		16.2440	16.2440
XON		1.5728 14.3849 16.2440 0.0269	1.5728 14.3849 16.2440 0.0269
ROG		1.5728	1.5728
	Category	Off-Road	Total
	Ö	0	

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

3.5 Building Construction - 2023
Unmitigated Construction Off-Site

CO2e.		0.0000	3,778.830	8,483.916 0	12,262.74 60
NZO			               		
CH4	biday	0.0000	0.1982	0.2190	0.4172
Total CO2	lb/c	0.0000 0.0000 0.0000	3,773.876 3,773.876 0.1982 2 2	8,478.440 8,478.440 8 8	12,252.31 12,252.31 0,4172 70 70
NBio-CO2		0.0000	3,773.876 2	8,478.440 8	12,252.31 70
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4. Total		3-0-0	: : : :		
		0.0000	0.2747	2.4372	2.7118
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	0.0111	0.0627	0.0738
Fugitive PM2.5		0.0000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9271	9.0214	9.9485
Exhaus PM10	lb/day	0.0000	0.0116	0.0681	7670.0
Fugitive PM10	/ <b>G</b> I	0.0000	0.9156	8.9533	9,8688
203		0.0000	0.0352	0.0851	0.1203
00		0.0000	3.1014	27.4113	30,5127
ROG NOx CO SO2		0.0000 0.0000 0.0000	10.0181	1.9287	11.9468
ROG		0.0000	0.3027	3.0203	3,3229
	Category	Hauling	Vendor	Worker	Total

CO2e		2,570.406 1	2,570.406 1
N2O CO2e			
CH4	Ae	0.6079	0.6079
Total CO2	lb/day	2,555.209	2,555.209 9
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 2,555.209 2,555.209 0.6079	0.0000 2,555.209 2,555.209 0.6079
Bio- CO2		0.0000	0.000
PM2.5 Total		0.6584	0.6584
Exhaust PM2.5		0.6584 0.6584	0.6584
Fugitive PM2.5			
PM10 Total		0.6997	0.6997
ogitive Exhaust PM/10 Fugitive Exhaust PM/10 Total PM/2.5 PM/2.5.	lay	0.6997	0.6997
E T	kep/ql		
S02		0.0269	0.0269
ေဝ၁		16.2440	
Nox		1.5728 14.3849 16.2440 0.0269	1.5728 14.3849 16.2440
ROG		1.5728	1.5728
	Category	Off-Road	Total

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

Date: 1/6/2021 1:54 PM

3.5 Building Construction - 2023
Mitigated Construction Off-Site

Fg847 + 15 T	NAME OF		· .	٠,٥	14
N2O CO2e		0.0000	3,778.830 0	8,483.916 0	12,262.74
NZO			1 	; { { { { { { { { { { { { { { { { { { {	
CH4	ay	0.0000	0.1982	0.2190	0.4172
Total CO2	(p/qay	0.000.0 0.000.0	3,773.876 2	8,478.440 8	12,252.31 70
NBio-CO2		0.000.0	3,773.876 3,773.876 2 2	8,478.440 8,478.440 8 8	12,252.31 12,252.31 70 70
Bio-CO2 NBio-CO2 Total CO2					
PM2.5 Total		0.0000	0.2747	2.4372	2.7118
Exhaust PM2.5		0.000.0	0.0111	0.0627	0.0738
Fugitive PM2.5		0.000.0	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9271	9.0214	9,9485
Exhaust PM10	lb/day	0.000.0	0.0116	0.0681	0.0797
Fugitive PM10	)/g	0.0000	0.9156	8.9533	9.8688
co.   soz		0.0000		0.0851	0.1203
		0.0000 0.0000 0.0000	3.1014	27.4113	30.5127
XON.		0.0000	10.0181	1.9287	11.9468
ROG		0.0000	0.3027	3.0203	3.3229
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2023

CO2e		2,225.433 6	0.0000	2,225.433 6
NZO				
CH4	lb/day	0.7140		0.7140
Total CO2	<b>/g</b> i	2,207.584 2,207.584 0.7140 1 1	0.0000	2,207.584 2,207.584 0.7140
Bio-CO2 NBio-CO2 Total CO2 CH4		2,207.584		2,207.584 1
Bio-CO2				
PM2.5 Total		0.4694	0.0000	0.4694
Fugitive Exhaust PM2.5 PM2.5		0.4694	0.0000	0.4694
Fugitive PM2.5				
PM10 Total		0.5102	0.0000	0.5102
Fugitive Exhaust PM10 PM10 PM10 Total	ib/day	0.5102	0.0000	0.5102
Fugitive. PM10	lb/e			
S02		0.0228		0.0228
ဗ္ဗ		14.5842		14.5842
ROG NOx		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total

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

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3.6 Paving - 2023
Unmitigated Construction Off-Site

	arannon e				
C02e		0.0000	0.0000	158.8748	158.8748
N20			[		
CH4 N20	A	0.0000	0.000.0	4.1000e- 003	4.1000e- 003
Total CO2	(b/day		0.000.0	158.7723	158.7723
Bio-CO2 NBio-CO2 Total CO2		0.0000 0.0000	0.0000	158.7723	158.7723
Bio- CO2					
PM2.5 Total		0.0000	0000.0	0.0456	0.0456
Exhaust PM2.5		0.000.0	0.000.0	1.1700e- 003	1.1700e- 003
Fugitive PM2.5		0.0000 0.0000	0.0000	0.0445	0.0445
PM10 Total		0.0000	0.0000	0.1689	0.1689
Exhaust PM10	lay	0.000.0	0.000.0	1.2800e- 003	1.2800e- 003
Fugitive PM10	lb/day	0.0000	0.0000	0.1677	0.1677
		0.000.0	0.0000	1.5900e- 003	1.5900e- 003
co soz		0.000 0.0000 0.0000		0.0361 0.5133	0.5133
×ON		0.0000	0.0000	0.0361	0.0361
ROG		0.0000	0.0000	0.0566	0.0566
	Category	Hauling	Vendor	Worker	Total

13795	F2. 3.22	F		
CO2e		2,225.433 6	0.0000	2,225.433 6
N2O				
CH4	A	0.7140	       	0.7140
Total CO2	(lp/day	2,207.584	0.0000	2,207.584
Bio- CO2 NBio- CO2 (Total CO2 CH4		0.0000 2,207.584 2,207.584 0.7140	     	0.0000 2,207.584 2,207.584 0.7140
Bio- CO2		0.000.0		0.0000
PM2.5 Total		0.4694	0000.0	0.4694
Exhaust PM2:5		0,4694 0,4694	0.000.0	0.4694
Fugitive PM2.5				
PM10 Total		0.5102	0.0000	0.5102
Exhaust PM10 PM10 Total	b/day	0.5102 0.5102	0.000.0	0.5102
Fugitive PM10	)(Ib/o			
CO SO2		0.0228		0.0228
တ		14.5842		14.5842
ROG NOX		1.0327 10.1917 14.5842		1.0327 10.1917 14.5842 0.0228
ROG		1.0327	0.000.0	1.0327
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2023

Mitigated Construction Off-Site

c02e		0.000	0.0000	158.8748	158.8748
N20					
CH4 N2O	ay.	0.0000	0.000.0	4.1000e- 003	4.1000e- 003
Total CO2	. Ib/day	0.0000	0.0000	158.7723 158.7723 4.1000e-	158.7723 158.7723
Bio- CO2 NBio- CO2 Total CO2		0.000.0	0.000.0	158.7723	158.7723
Bio- CO2			1 1 1 1 1 1 1 1	; ; ; ; ;	
t PM2.5 F Total		0.0000	0.0000	0.0456	0.0456
Exhaus PM2.5			0.000.0	1.1700 <del>e-</del> 003	1.1700e- 003
Fugitive PM2.5		0.0000 0.0000 0.0000	0.0000	0.0445	0.0445
PM10 Total		0.0000	0.0000	0.1689	0.1689
-ugitive Exhaust -PM10 PM10	lb/dáy	0.0000	0.0000	1.2800e- 003	1.2800e- 003
Fugitive PM10	/ <u>/</u> 9	0.0000	0.0000	0.1677	0.1677
\$05		0.0000	0.0000	1.5900e- 0 003	1.5900e- 003
8		0.0000 0.0000 0.0000	0.0000	0.5133	0.0361 0.5133 1.5900e-
NOX CO		0.0000	0.000.0	0.0361	0.0361
ROG		0.0000	0.0000	0.0566	0.0566
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2024

ROG         NOx         CO         SOZ         Fugitive PM/10	 المساحد الماليات				
Fugitive         Exhaust         PM.2.5 PM.2.5 PM.2.5 Total         PM.2.5 PM.	2,225.396 3	0.0000	2,225.396 3		C02e
Fugitive         Exhaust         PM.10 Fugitive         Exhaust PM.2.5 PM.2.5 Fotal         Bio-CO2 Fotal Fot					N2O
Fugitive         Exhaust         PM10         Fugitive         Exhaust         PM2.5         Bio-CO2           PM10         Folal         PM2.5         Total         Bio-CO2           Ib/day         0.4685         0.4685         0.4885         0.4310           0.0000         0.0000         0.0000         0.0000           0.4310         0.4310	0.7140	<b>;                                    </b>	0.7140	ay	CH4
Fugitive         Exhaust         PM10         Fugitive         Exhaust         PM2.5         Bio-CO2           PM10         Folal         PM2.5         Total         Bio-CO2           Ib/day         0.4685         0.4685         0.4885         0.4310           0.0000         0.0000         0.0000         0.0000           0.4310         0.4310	2,207.547 2	0.0000	2,207.547	P/ql	Total CO2
Fugitive         Exhaust         PM10         Fugitive         Exhaust         PM2.5         Bio-CO2           PM10         Folal         PM2.5         Total         Bio-CO2           Ib/day         0.4685         0.4685         0.4885         0.4310           0.0000         0.0000         0.0000         0.0000           0.4310         0.4310	2,207.547 2	           	2,20 <b>7</b> .547		NBio- CO2
Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM2.5   PM2					Bio-CO2
Fugitive   Exhaust   PM10   Fugitive   Exhaust   PM2.5   PM2	0.4310	0000.0	0.4310		PM2.5 Total
Fugitive   Exhaust   PM10   Fugitive   PM10   PM2.5	0.4310	0.000.0	0.4310		Exhaust PM2.5
Eugitive Exhaust PM10 PM10 Total b/day.  0.4685 0.4685  0.4685 0.4685					Fugitive PM2.5
Fugitive PM/10 b/da	0.4685	0.0000	0.4685		PM10 Total
Fugitive PM/10 Ib/	0.4685		0.4685	ay	Exhaust PM10
				p/qI	Fugitive PM10
246 14.6258	0.0228		0.0228		
246 246	14.6258		14.6258		လ
\$ 6 G	9.5246		9.5246		ŇŎĸ
0.9882 0.9882 0.0000	0.9882	0.0000	0.9882		ROG
Category Off-Road Paving Total	Total	Paving		Category	

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

3.6 Paving - 2024
Unmitigated Construction Off-Site

CO2e		0.000	0.0000	153.9458	153.9458
NZO				 ! !	
OH44	iay	0.000.0	0.000	3.7600e- 003	3.7600e- 003
Bio- CO2 NBio- CO2 Total CO2	lb/day	0.0000 0.0000	0.0000	153.8517 153.8517	153.8517 3.7600e-003
NBio-CO2		0.0000	0.0000	153.8517	153.8517
Bio-CO2					
t PW2.5 Total		0.0000	0.0000	0.0456	0.0456
Fugitive Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	1.1600e- 003	1.1600e- 003
Fugitive PM2:5		0.0000	0.0000	0.0445	0.0445
PM10 Total		0.0000	0.0000	0.1689	0.1689
Fugitive Exhaust PM10 PM10	lb/day	0.0000	0.0000	1.2600e- 003	1.2600e- 003
Fugitive PM10	<b>/9</b> I	0.0000	0.0000	0.1677	0.1677
20S 00		0.0000	0.0000	1.5400e- C 003	1.5400e- 003
Y		0.0000	0.0000	0.4785	0.4785
ROG NOx		0.000.0 0.000.0 0.000.0	0.0000	0.0329	0.0535 0.0329
ROG		0.0000	0.0000	0.0535	0.0535
	Category	Hauling	Vendor	Worker	Total

				_
C02e		2,225.396 3	0.0000	2,225.396 3
N2O.				
CH4	<b>See</b>	0.7140	<b>†</b>           	0.7140
Total CO2	lb/day	2,207.547 2	0.0000	2,207.547
NBio-CO2		2,207.547 2	<b> </b>	2,207.547 2
Bio- CO2		0.0000 2,207.547 2,207.547 0.7140 2 2	; ; ; ;	0.0000 2,207.547 2,207.547 0.7140
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2o Total		0.4310	0.000.0	0.4310
Fugitive Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.4310	0.000.0	0.4310
Fugitive PM2.5				
PM10 Total		0.4685	0.000.0	0.4685
Exhaust PM10	ay	0.4685	0.000.0	0.4685
Fugitive PM10	lb/day			
SO2		0.0228		0.0228
<b>o</b>		14.6258		14.6258
NOX		0.9882 9.5246 14.6258 0.0228		9.5246
ROG		0.9882	0.000.0	0.9882
	Category	Off-Road	Paving	Total

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

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3.6 Paving - 2024
Mitigated Construction Off-Site

	(black by		:		ω
CO2e		0.0000	0.000.0	153.9458	153.9458
N20 CO2e			 	 	
Bio- CO2 NBio- CO2 Total CO2 CH4	lb/day	0.0000	0.0000	3.7600e- 003	3.7600e- 003
Total CO2	/dl	0.0000 0.0000	0.0000	153.8517 153.8517 3.7600e- 003	153.8517 153.8517 3.7600e-
NBio-CO2		0.0000	0000.0	153.8517	153.8517
Bio-CO2			: : : : : : :		
st PM2.5 B 5 Total		0.0000	0.000.0	0.0456	0.0456
Exhau PM2.		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	1.1600 <del>c</del> 003	1.1600e- 0 003
PM10 Fugitive Total PM2.5		0.0000	0.0000	0.0445	0.0445
PM10 Total		0.0000	0.0000	0.1689	0.1689
Fugitive Exhaust PM10 PM10	lb/day	0.0000	0.0000	1.2600e- 003	1.2600e- 003
0.388.899	lb/	0.0000	0.0000	0.1677	0.1677
S02		0.0000	0.0000	1.5400e- C 003	1.5400e- 003
တ		0.0000	0.0000	0.4785	0.4785
ROG NOX CO S02		0.0000 0.0000 0.0000	0.0000	0.0329	0.0535 0.0329
ROG		0.0000	0.0000	0.0535	0.0535
	Category	Hauling	Vendor	Worker	Total

3.7 Architectural Coating - 2024

			_	
CO2e		0.0000	281.8443	281.8443
NZO				
CH4	λe.		0.0159	0.0159
Total CO2	Ib/day	0.000.0		
NBio-CO2			281.4481 281.4481	281.4481 281.4481
Bio-CO2				
PM10 Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		0.0000	6090.0	0.0609
Exhaust PM2.5		0.000.0	6090.0	0.0609
Fugitive PM2.5				
PM10 Total		0.0000	6090.0	6090.0
Exhaust PM10	lb/day	0.0000	0.0609	0.0609
Fugitive PM10	/gr			
s02			2.9700e- 003	2.9700e- 003
00			1.8101	1.8101
ROG NOx			1.2188	236.5923 1.2188 1.8101 2.9700e- 003
ROG		236.4115	0.1808 1.2188 1.8101 2.9700e- 003	236.5923
	Category	Archit. Coating 236.4115	Off-Road	Total

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

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

			_		
C02e		0.0000	0.0000	1,642.088 6	1,642.088 6
N20					
CH4	say.	0.0000	0.0000	0.0401	0.0401
Total CO2	lb/day.	0.000.0	0.000.0	1,641.085 2	1,641.085
NBio- CO2		0.000.0	0.000.0	1,641.085 1,641.085 2	1,641.085 1,641.085 2 2
Bio-CO2 NBio-CO2 Total CO2 CH4					
l PM2.5 Total		0.0000	0.000	0.4866	0.4866
Exhaus PM2.5			0.000.0	0.0123	0.0123
Fugitive PM2.5		0.000.0	0.000.0	0.4743	0.4743
PM10 Total		0.0000	0.000.0	1.8018	1.8018
Exhaust PM10 PM10 Total	lay	0.0000 0.0000 0.0000 0.0000 0.0000	0.000.0	0.0134	0.0134
Fugitive PM10	lb/day	0.000.0	0.000.0	1.7884	1.7884
S02		0.0000	0.000.0	0.0165	0.0165
00		0.0000	0.0000	5.1044	5.1044
ROG NOX CO		0.0000 0.0000 0.0000	0.0000 0.0000	0.3513	0.3513
ROG		0.0000	0.0000	0.5707	0.5707
	Category	Hauling	Vendor	Worker	Total

F.32 - 1 - 1 - 1	and a second			
CO2e		0.0000	281.8443	281.8443
NZO		••••		
15-165			0.0159	0.0159
otal CO2	Ib/day	0.0000	81.4481	
NBio-CO2 Total CO2 CH4			281.4481 281.4481	81.4481 2
Bio- CO2 N			0.0000	0.0000 281.4481 281.4481
PM2.5 Total		0.000	0.0609	0.0609
Exhaust PM2.5		0000.0	0.0609	0.0609
Fugitive I		· • • • •		
PM10 Total		0000.0	0.0609	6090'0
Exhaust PM10	, Ae	0.0000	6090.0	0.0609
Fugitive PM10	lb/day			
S02			1.8101 2.9700e- 003	2.9700e- 003
NOX			1.8101	1.8101
NOX			1.2188	1.2188
ROG		236.4115	0.1808 1.2188	236.5923 1.2188 1.8101 2.9700e- 003
	Category	Archit. Coating 236.4115	Off-Road	Total

6.3.2 Page 27 of 35 Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	1,642.088 6	1,642.088 6
N2O				,	
CH4	lay	0.0000	0.0000	0.0401	0.0401
Total CO2	lb/day	0.000.0	0.0000	1,641.085 1,641.085 2 2	1,641.085 1,641.085 2 2
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.000.0	1,641.085 2	1,641.085
Bio-CO2			1 1 1 1 1 1		
PM2.5 Total		0.0000	0.000.0	0.4866	0.4866
Exhaust PM2.5		0.000.0	0.0000	0.0123	0.0123
Fugitive PM2.5		0.0000 0.0000 0.0000	0.0000	0.4743	0.4743
PM10 Total		0.000.0	0.0000	1.8018	1.8018
Exhaust PM10	lb/day.	0.0000	0.000.0	0.0134	0.0134
Fugitive PM10	)/qI	0.000.0	0.0000	1.7884	1.7884
S02		0.000.0	0.0000	0.0165	0.0165
00		0.0000 0.0000 0.0000 0000.0		5.1044	0.3513 5.1044
XON		0.0000	0.0000	0.5707 0.3513 5.1044	0.3513
ROG		0.0000	0.0000	0.5707	0.5707
	Category	Hauling	Vendor	Worker	Total

# 4.0 Operational Detail - Mobile

# 4.1 Mitigation Measures Mobile

5.3.2 Page 28 of 35
Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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	114.8495 0.4917 45. 114.8495 0.4917 45.	9.8489 45.4304 114.8495 0.4917 45. 9.8489 45.4304 114.8495 0.4917 45.
.9592 0.3360 46.2951 12.2950 0.3119 12.6070 .9592 0.3360 46.2951 12.2950 0.3119 12.6070	114.8495         0.4917         45.9592         0.3360         46.295           114.8495         0.4917         45.9592         0.3360         46.295	9.8489 45.4304 114.8495 0.4917 45.9592 0.3360 46.295 9.8489 45.4304 114.8495 0.4917 45.9592 0.3360 46.295
	114.8495 0.4917 45. 114.8495 0.4917 45.	9.8489 45.4304 114.8495 0.4917 45. 9.8489 45.4304 114.8495 0.4917 45.

# 4.2 Trip Summary Information

	Ave	Average Daily Trip Rate		Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	AnnualVMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,0	3,773.25	4075.50	13,660,065	13,660,065
	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	2	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

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1		Ī		;	:	;	:	-
% <del>-</del>	Pass-by	3	8	4	43	4	44	11
Trip Purpose %	Diverted	11		19	20	38	18	35
	Primary	98	86	77	37	58	38	54
	H-Worc-W H-Sorc-C H-O or C-NW	40.60	40.60	19.00	19.00	19.00	19.00	19.00
Trip %	H-SorC-C	19.20	19.20	48.00	72.50	61.60	00.69	64.70
	H-W or C-W	40.20	40.20	33.00	8.50	19.40	12.00	16.30
	r C-C H-O or C-NW	8.70	8.70	9.90	9.90	6.90	6.90	6.90
Miles	H-S or C-C	5.90	5.90	8.40	8.40	8.40	8.40	8.40
	H-Wor C-W H-So	14.70	14.70	16.60	16.60	16.60	16.60	16.60
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down	Hotel	Quality Restaurant	Regional Shopping Center

#### 4.4 Fleet Mix

0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Regional Shopping Center
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Quality Restaurant
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Hotel
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	High Turmover (Sit Down Restaurant)
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.543088 0.044216 0.20	0.543088	General Office Building
0.000821	0.000712	0.116369  0.014033  0.006332  0.021166  0.033577  0.002613  0.001817  0.005285  0.000712  0.000821	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.543088 0.044216 0.209971	0.044216	0.543088	Apartments Mid Rise
0.000821	0.000712	9971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.00082	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	9971	0.543088 0.044216 0.20	0.543088	Apartments Low Rise
MH	SBAS	HHD OBUS WCY	SOBO	SUBO	HHD	MHD	LHD2	MDV LHD1 LHD2 MHD	MDV	LDA LDT1	LOTA	LDA	LandUse

#### 5.0 Energy Detail

Historical Energy Use: N

# 5.1 Mitigation Measures Energy

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

Sategory	2	Š	3	<u> </u>	PM10	PM10 PM10  Ib/day	Loran Loran	PM2.5	Exhaust PM2.5	FM2.5	70.7 00.7 00.7 00.7 00.7 00.7 00.7 00.7	Nsio- COZ	Total PM2.5 PM2.5 Total Bio-COZ NBio-COZ CH4  Total PM2.5 PM2.5 Total Bio-COZ NBio-COZ CH4	3¢	N20	C02e
NaturalGas Mitigated	0.7660	0.7660 6.7462 4.2573 0.0418	4.2573	0.0418		0.5292 0.5292	0.5292		0.5292 0.5292	0.5292		8,355.983	8,355,983 8,355,983 0.1602 0.1532 8,405,638	0.1602	0.1532	8,405.638
NaturalGas Unmitigated	0.7660	0.7660 6.7462 4.2573 0.0418	4.2573	0.0418	·	0.5292 0.5292	0.5292	       	0.5292	0.5292		8,355.983	8,355.983 8,355.983 0.1602 0.1532 8,405.638	0.1602	0.1532	8,405.638

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

5.2 Energy by Land Use - NaturalGas

#### Unmitigated

1,37,14.3	100 C	I	٠	1	т,,	•		ı	T.,
-CO2e		132.4486	4,234.933 9	151.8884	2,693.546 0	564.4782	598.5658	29.7778	8,405.638
NZO		2.4100e- 003	0.0772	2.7700e- 003	0.0491	0.0103	0.0109	5.4000e- 004	0.1532
CH4	Àe .	2.5200e- 003	0.0807	2.8900e- 003	0.0513	0.0108	0.0114	5.7000e- 004	0.1602
Total CO2	lb/day	131.6662	4,209.916 4	150.9911	2,677.634	561.1436	595.0298	29.6019	8,355.983 2
NBio- CO2		131.6662   131.6662	4,209.916 4	150.9911	2,677.634 2,677.634 2 2 2	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2 NBio-CO2 Total CO2						• • • • • • •		† · · · · ·	
PM2.5 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM2.5		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM2.5									
PM10 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700 <del>e-</del> 003	0.5292
Exhaust PM10	lb/day.	8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700 <del>e</del> 003	0.5292
Fugitive PM10	/ <b>q</b> l		·						
<b>S</b> 02		6.6000e- 004	0.0211	7.5000e- 004	0.0134	2.8100e- 003	2.9800e- 003	1.5000e- 004	0.0418
00		0.0439	1.4033	0.1057	1.8743	0.3928	0.4165	0.0207	4.2573
XON		0.1031	3.2978	0.1258	2.2314	0.4676	0.4959	0.0247	6.7463
ROG		0.0121	0.3859	0.0138	0.2455	0.0514	0.0545	2.7100e- 003	0992'0
NaturalGa s Use	kBTU/yr	1119.16	35784.3	1283.42	22759.9	4769.72	5057.75	251.616	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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

5.2 Energy by Land Use - NaturalGas

Mitigated

C02e		132.4486	4,234.933 9	151.8884	2,693.546	564.4782	598.5658	29.7778	8,405.638
NZO		2.4100e- 003	0.0772	2.7700e- 003	0.0491	0.0103	0.0109	5.4000e- 004	0.1532
CH4	lay	2.5200e- 003	0.0807	2.8900e- 003	0.0513	0.0108	0.0114	5.7000e- 004	0.1602
Total CO2	lb/day	131.6662 131.6662	4,209.916 4	150.9911	2,677.634 2	561.1436	595.0298	29.6019	8,355.983 2
Bio- CO2 NBio- CO2 Total CO2		131.6662	4,209.916 4	150.9911	2,677.634	561.1436	595.0298	29.6019	8,355.983 2
Blo- CO2								 	
PM2.5 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM2.5		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM2.5									
PM10 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM10	brday	8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM10	<b>)/9</b> 1								
205		6.6000e- 004	0.0211	7.5000e- 004	0.0134	2.8100e- 003	2.9800e- 003	1.5000e- 004	0.0418
00		0.0439	1.4033	0.1057	1.8743	0.3928	0.4165	0.0207	4.2573
XON		0.1031	3.2978	0.1258	2.2314	0.4676	0.4959	0.0247	6.7463
ROG		0.0121	0.3859	0.0138	0.2455	0.0514	0.0545	2.7100e- 003	0.7660
NaturalGa s Use	kBTU/yr	1.11916	35.7843	1.28342	22.7599	4.76972	5.05775	0.251616	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

6.0 Area Detail

## 6.1 Mitigation Measures Area

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

CO2e		18,259.11 92	18,259.11 92
N20 C02e		0.3300	0.3300
CH4	/se	0.4874	0.4874
Total CO2	lb/day	18,148.59 50	18,148.59 50 50
NBio-CO2		18,148.59 50	18,148.59 50
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 92	0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.1
PM2.5 Bio Total		1.5974	1.5974
Exhaust PM2.5		1,5974 1,5974	1.5974
Fugitive Exhaust PM2.5 PM2.5			
PM10 Total		1.5974	1.5974
Exhaust PM10 PM10 Total	ay.	1.5974 1.5974	1.5974
Fugitive PM10	p/qı		
S02		0.0944	0.0944
8		88.4430	88.4430
ROG NOx		15.0496	30.5020 15.0496 88.4430 0.0944
ROG		30.5020 15.0496 88.4430 0.0944	30.5020
	Category	Mitigated	Unmitigated

6.2 Area by SubCategory

Unmitigated

e202		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
NZO				0.3300		0.3300
CH4	b/day			0.3450	0.1424	0.4874
Total CO2	<b>yg</b> l	0.0000	0.0000	18,000.00 00	148.5950	18,148.59 50
Bio-CO2 NBio-CO2 Total CO2				18,000.00 18,000.00 00 00	148.5950	18,148.59 18,148.59 50 50
Bio-CO2				0.0000		0.0000
PM2.5 Total		0.000	0.0000	1.1400	0.4574	1.5974
Exhaust PM2.5		0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM2.5						
PM10 Total		0.0000	0.0000	1.1400	0.4574	1.5974
Exhaust PM10	lb/day	0.000.0	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	/ <b>q</b> I					
SO2				0.0900	4.3600e- 003	0.0944
<b>0</b> 0				9.0000	82.4430 4.3600e- 003	15.0496 88.4430
XON				14.1000 6.0000	0.9496	15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

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

### 6.2 Area by SubCategory

Mitigated

C02e		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
NZO				0.3300		0.3300
CH4	Áe			0.3450	0.1424	0.4874
Total CO2	lb/day	0.0000	0.0000	18,000.00 00	148.5950	18,148.59 50
Bio- CO2 NBio- CO2 Total CO2				18,000.00 18,000.00 00 00	148.5950	18,148.59 50
Bio-CO2			! ! !	0.0000		0.0000
PM2.5 Total		0.000.0	0.0000	1.1400	0.4574	1.5974
Exhaust PM2.5		0.0000	0.000.0	1.1400	0.4574	1.5974
Fugitive PM2.5			 			
PM10 Total		0.0000	0.000.0	1.1400	0.4574	1.5974
Exhaust PM10	lb/day	0.000.0	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	o/ql					
803				0.0900	4.3600e- 003	0.0944
ဝ				6.0000	82.4430 4.3600e- 003	88.4430
NOX				14.1000 6.0000	0.9496	15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

#### 7.0 Water Detail

## 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

Fuel Type
Load Factor
Horse Power
Days∕Year
Hours/Day
Number
duipment Type
Equibm

# 10.0 Stationary Equipment

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

# Fire Pumps and Emergency Generators

Equipment Type Hours/I	Day Hours/Year	Horse Power Load Factor Fuel Type
Boilers		
Equipment Type Heat Input/	ut/Day Heat Input/Year	Boiler Rating Fuel Type

#### **User Defined Equipment**

Number Equipment Type

#### 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           General Office Building         45.00           High Turnover (Sit Down Restaurant)         36.00           Apartments Low Rise         50.00           Apartments Low Rise         25.00           Apartments Mid Rise         975.00	Metric 1000sqft 1000sqft Room 1000sqft Dwelling Unit	Lot Acreage 1.03 0.83 1.67 0.18 1.56 25.66	Floor Surface Area 45,000.00 36,000.00 72,600.00 8,000.00 25,000.00	Population 0 0 0 0 72 72 72
56.00	1000sqft	1.29	56,000.00	0

# 1.2 Other Project Characteristics

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

# 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	Cólumi 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
tbl/ehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tbl/ehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tbl/ehicleTrips	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

3.20	57.65	6.39	5.83	4.13	6.41	65.80	3.84	62.64	9.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.95	72.16	25.24	6.59	6.65	11.03	127.15	8.17	89.95	42.70	1.25	48.75	1.25	48.75	25.00	25.00	09.666	09.666
SU_TR	SU_TR	SU_TR	WD_TR	NumberCatalytic	NumberCatalytic	NumberNoncatalytic	NumberNoncatalytic	WoodstoveDayYear	WoodstoveDayYear	WoodstoveWoodMass	WoodstoveWoodMass						
tblVehicleTrips	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves									

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

CO2e		0.0000 6,270.221 4	14,657.26 63	14,235.91 60	2,370.355 0	14,657.26 63
NZO		0.0000	0.0000	0.0000	0.0000	0.0000
C <u>F</u> 4	laý	1.9491	1.9499	1.0230	0.7175	1.9499
Total CO2	lb/day	6,221.493 7	14,630.30 99	14,210.34 14,210.34 24 24	2,352.417 2,352.417 8 8	14,630.30 99
Bio- CO2 NBio- CO2 Total CO2		0.0000 6,221.493 6,221.493	14,630.30 14,630.30 99 99	14,210.34 24	2,352.417 8	14,630.30 14,630.30 99 99
Bio-CO2		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		1.8824 11.8664	5.1615	3.3708	0.5476	11.8664
Exhaust PM2.5		1.8824	1.5057	0.7328	0.4322	1.8824
Fugitive PM2.5		9.9840	3.6558	2.6381	0.4743	9.9840
PM10 Total		20.3135	10.7736	10.6488	1.8628	20.3135
Exhaust PM10	ib/day	2.0461	1.6366	0.7800	0.4698	2.0461
Fugitive PM10	//qi	18.2675	9.8688	9.8688	1.7884	18.2675
S02		0.0642	0.1455	0.1413	0.0243	0.1455
03		31.6150	47.3319	44.5936	15.0611	47.3319
×ON		4.2865 46.4651 31.6150 0.0642	38.9024	26.4914	9.5610	237.2328 46.4651
ROG		4.2865	5.7218	5.2705	237.2328	237.2328
	Year	2021	2022	2023	2024	Maximum

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

2.1 Overall Construction (Maximum Daily Emission)

#### Mitigated Construction

CO2e		6,270.221 4	14,657.26 63	14,235.91 60	2,370.355	14,657.26 63
N20		0.0000 6,270.221	0.0000	0.0000	0.0000	0.0000
CH4.	lb/day	1.9491	1.9499	1.0230	0.7175	1.9499
Total CO2	)/qI	6,221.493 7	14,630.30 14,630.30 99 99	14,210.34 14,210.34 24 24	2,352.417 2,352.417 8 8	14,630.30 14,630.30 99 99
Bio- CO2 NBio- CO2 Total CO2		0.0000 6,221.493 6,221.493	14,630.30 99	14,210.34 24	2,352.417 8	14,630.30 99
Bio-CO2		0.0000	00000	0.0000	0.0000	0.0000
PM2.5 Total		11.8664	5.1615	3.3708	0.5476	11.8664
Exhaust PM2.5		1.8824	1.5057	0.7328	0.4322	1.8824
Fugitive PM2.5		9.9840	3.6558	2.6381	0.4743	9.9840
PM10 Total		20.3135	10.7736	10.6488	1.8628	20.3135
Exhaust PM10	lb/day	2.0461	1,6366	0.7800	0.4698	2.0461
Fugitive PM10	/qi	18.2675	9.8688	9.8688	1.7884	18.2675
<b>3</b> 02		0.0642	0.1455	0.1413	0.0243	0.1455
8		31.6150	47.3319	44.5936	15.0611	47.3319
NOX		4.2865 46.4651 31.6150	38.9024	26.4914	237.2328 9.5610	46.4651
ROG		4.2865	5.7218	5.2705	237.2328	237.2328
	Year	2021	2022	2023	2024	Maximum

F	
CO2e	0.00
N20	0.00
CH4	0.00
io-CO2 Total CO2	0.00
12	0.00
Bio- CO2	0.00
PM2.5 Total	0.00
Exhaust PM2.5	0.00
Fugitive F PM2.5	0.00
PW10 Total	0.00
Exhaust PM10	0.00
Fugitive PM10	0.00
S02	0.00
00	0.00
NOX	0.00
ROG	00.0
	Percent Reduction

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

2.2 Overall Operational Unmitigated Operational

CO2e		18,259.11 92	8,405.638 7	47,972.68 39	74,637.44 17
NZO		0.3300 18,259.11 92	0.1532		0.4832
CH4	lb/day	0.4874	0.1602	2.1953	2.8429
Total CO2	)/q	18,148.59 50	8,355.983 8,355.983 2 2	47,917.80 05	74,422.37 87
NBio-CO2		0.0000 18,148.59 18,148.59 0.4874 50 50	8,355.983 2	47,917.80 47,917.80 05 05	0.0000 74,422.37 74,422.37 87 87
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	; ; ;		0.0000
Exhaust PM2.5 PM2.5 Total		1.5974	0.5292	12.6083	14.7349
Exhaust PM2.5		1.5974	0.5292	0.3132	2.4399
Fugitive PM2.5				12.2950	2.4640 48.4231 12.2950
PM10 Total		1.5974	0.5292	46.2965	48.4231
Exhaust PM10	lay	1.5974	0.5292	0.3373	2.4640
Fugitive PM10	(lb/day			45.9592	45.9592
S02		0.0944	0.0418	0.4681	0.6043
8		88.4430	4.2573	45.9914 110.0422 0.4681	202.7424
NOX		30.5020 15.0496 88.4430 0.0944	6.7462	45.9914	40.7912 67.7872 202.7424 0.6043
ROG		30.5020	0.7660	9.5233	40.7912
	Category	Area	Energy	Mobile	Total

#### Mitigated Operational

2000	No. of the				
CO2e		18,259.11 92	8,405.638 7	47,972.68 39	74,637.44 17
N2O.		0.3300	0.1532	i   	0.4832
CH4	Ae .	0.4874	0.1602	2.1953	2.8429
Total CO2	lb/day	18,148.59 50	8,355.983	47,917.80 05	74,422.37 87
NBio- CO2		18,148.59 50	8,355,983 8,355,983 0.1602 2 2	47,917.80 47,917.80 05 05	74,422.37 74,422.37 87 87
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 18,148.59 18,148.59 0.4874 50 50			0.0000
PM2.5 Total		1.5974 1.5974	0.5292	12.6083	14.7349
Exhaust PM2.5		1.5974	0.5292	0.3132	2.4399
Fugitive PM2.5			 	12.2950	12.2950
PM10 Total		1.5974	0.5292	46.2965	48.4231 12.2950
Exhaust PM10	lb/day	1.5974	0.5292	0.3373	2.4640
Fugitive PM10	y <b>q</b> l			45.9592	45.9592
S02		0.0944	0.0418	0.4681	0.6043
တ		88.4430	4.2573	110.0422	202.7424
XON		30.5020 15.0496 88.4430 0.0944	0.7660 6.7462	9.5233 45.9914 110.0422 0.4681	40.7912 67.7872 202.7424
ROG		30.5020	0.7660	9.5233	40.7912
	Category	Area	Energy	Mobile	Total

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

CO2e	00'0
N20	00'0
CH4	0.00
Total CO2	0.00
NBio-CO2	00'0
Bio- CO2	0.00
PM2.5 Total	0.00
Exhaust PM2.5	0.00
Fugitive PM2.5	0.00
PIM10 Total	0.00
Exhaust PM10	0.00
Fugitive PM10	0.00
S02	0.00
03	0.00
NOX	0.00
RoG	0.00
	Percent Reduction

#### 3.0 Construction Detail

#### **Construction Phase**

Scription		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Phase Description		· · · · · · ·	• • • • •	; ; ; ; ;	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1
Num Days	30	20	45	200	35	35
Num Days Num Days Week	5	5	5	5	5	5
End Date	10/12/2021	11/9/2021	1/11/2022	12/12/2023	1/30/2024	3/19/2024
Start Date	9/1/2021	10/13/2021	11/10/2021	1/12/2022	12/13/2023	1/31/2024
Phase Type	Demolition	aration	 	Building Construction	Paving	Architectural Coating
Phase Name		Site Preparation	Grading	Building Construction	Paving	Architectural Coating
Phase Number	_	2	n	4	5	9

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	_	8.00	81	0.73
Demolition	Excavators	(C)	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	(C)	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	76	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders		8.00	187	0.41
Grading	Rubber Tired Dozers		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		7.00	231	0.29
Building Construction	Forklifts	ဇ	8.00	68	0.20
Building Construction	Generator Sets		8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	r	7.00	97	0.37
Building Construction	Welders		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	9.00	78	0.48

Trips and VMT

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

Phase Name	Phase Name Offroad Equipment Worker Trip Count Number	Worker Trip Number	Vendor Trip Number		Hauling Trip Worker Trip Number Length	Vendor Trip Length	Hauling Trip Length	Vendor Trip Hauling Trip Worker Vehicle Length Length Class	1.64	Vendor Hauling Vehicle Class
<b>Demolition</b>	9	15.00	0.00	458.00	14.70	6.90		20.00 LD_Mix	HDT_Mix	ННОТ
Site Preparation		18.00	00.0	00.00	14.70	6.90		20.00 LD_Mix	HDT_Mix	HHDT
Grading	80	20.00	0.00		14.70	9.90		20.00 LD_Mix	HDT_Mix	HHDT
Building Construction	6	801.00	143.00	0.00	14.70	06.9		20.00 LD_Mix	HDT_Mix	HHDT
Paving	9	15.00	0.00	0.00	14.70	06.9		20.00 LD_Mix	HDT_Mix	HHDT
Architectural Coating		160.00	00.00	00.00	14.70	9.90		20.00 LD_Mix	HDT_Mix	HHDT

# 3.1 Mitigation Measures Construction

3.2 Demolition - 2021

CO2e.		0.0000	3,774.317	3,774.317 4
NZO CO2e				
Bio- CO2 NBio- CO2 Total CO2 CH4	lay		1.0549	1.0549
Total CO2	Ib/day	0.0000	3,747.944 9	3,747.944 3,747.944 9 9
NBio-CO2			3,747.944 3,747.944 9 9	3,747.944 9
PM2.5 Total		0.5008	1.4411	1.9419
Exhaust PM2.5		0.000.0	1.4411	1.4411
Fugitive PM2.5		0.5008	 	0.5008
PM10 Fugitive Exhaust Total PM2.5 PM2.5		3.3074	1.5513	4.8588
Exhaust PM10	ay	0.000.0	1.5513	1.5513
Fugitive Exhaust PM10 PM10	lb/day	3.3074	<b>;</b>                 	3.3074
s02			0.0388	0.0388
တ			21.5650	
XON			3.1651 31.4407 21.5650	3.1651 31.4407 21.5650
RoG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

3.2 Demolition - 2021
Unmitigated Construction Off-Site

CO2e		1,272.125 2	0.0000	160.9560	1,433.081 2
NZO					
СН4	lb/day	0.0908	0.0000	4.7300e- 003	0.0955
Total CO2	IB/C	1,269.855 1,269.855 5 5	0.0000	160.8377 160.8377	1,430.693 1,430.693 2 2
Bio- CO2 NBio- CO2 Total CO2 CH4		1,269.855 5	0.000.0	160.8377	1,430.693 2
Bio- CO2					
PM2.5 Total		0.0854	0.0000	0.0457	0.1311
Exhaust PM2.5		0.0122	0.000.0	1.2500e- ( 003	0.0135
Fugitive Exhaust PM2.5		0.0732 0.0122	0.000.0	0.0445	0.1176
PM10 Total		0.0128 0.2797	0.000.0	0.1690	0.4487
Exhaust PM10	lb/day	0.0128	0.0000	1.3500e- 003	0.0141
Fugitive PM10	lb/c	0.2669	0.0000	0.1677	0.4346
S02		0.0117	0.0000	1.6100e- ( 003	0.0133
ဇ၁		1.0182	0.0000	0.5524	1.5706
XON		4.1454	0.0000	0.0489	0.2019 4.1943
ROG		0.1304 4.1454 1.0182 0.0117	0.0000	0.0715	0.2019
	Category	Hauling	Vendor	Worker	Total

CO2e		0.0000	3,774.317	3,774.317 4
NZO				
100000000000000000000000000000000000000	, ke		1.0549	1.0549
Bio-CO2 NBio-CO2 Total CO2 CH4	lb/day	0.000.0	3,747.944 3,747.944 1.0549 9 9	3,747.944 9
NBio-CO2			3,747.944 9	0.0000 3,747.944 3,747.944 9
Bio-CO2			0.0000	0.000
PM2.5 Total		0.5008	1,4411 1,4411	1.9419
Exhaust PM2.5		3074 0.0000 3.3074 0.5008 0.0000 0.5008	1.4411	1.4411
Fugitive PM2.5		0.5008		0.5008 1.4411
PM10 Total		3.3074	1.5513	4.8588
Exhaust PM10	Ib/day	0.000.0	1.5513	1.5513
Fugitive PM10	lb/gl	3.3074		3.3074
S02			0.0388	0.0388
တ			21.5650	3.1651 31.4407 21.5650 0.0388
ROG NOX			3.1651 31.4407 21.5650	31.4407
ROG			3.1651	3.1651
	Саtедолу	Fugitive Dust	Off-Road	Total

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

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3.2 Demolition - 2021

Mitigated Construction Off-Site

CO2e		1,2 <b>7</b> 2.125 2	0.0000	160.9560	1,433.081 2
.N2O					
CH4	lay	0.0908	0.0000	4.7300e- 003	0.0955
Total CO2	lb/day	1,269.855 1,269.855 5 5	0.0000	160.8377 160.8377 4.7300e-	1,430.693 1,430.693 2
NBio-CO2		1,269.855 5	0.0000	160.8377	1,430.693
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 N20 CO2e Total			1		
		0.0854	0.0000	0.0457	0.1311
Exhaust PM2.5		0.0122	0.000	1.2500e- 003	0.0135
Fugitive PM2.5		0.0732 0.0122	0.0000	0.0445	0.1176
PM10 Total		0.2797	0.0000	0.1690	0.4487
Exhaust PM10	lb/day	0.0128	0.0000	1.3500e- 003	0.0141
Fugitive PM10	) <b>(</b> ]	0.2669	0.0000	0.1677	0.4346
<b>S</b> 02		0.0117	0.0000	1.6100e- 003	0.0133
00		1.0182	0.0000	0.5524	1,5706
NOX		0.1304 4.1454 1.0182 0.0117	0.0000 0.0000 0.0000	0.0489 0.5524 1.6100e- 003	4.1943
ROG		0.1304	0.0000	0.0715	0.2019
	Category	Hauling	Vendor	Worker	Total

3.3 Site Preparation - 2021

CO2e		0.000	3,715.457 3	3,715.457 3
NZO			3,7	3,
	۸		1.1920	1.1920
Bio- CO2 NBio- CO2 Total CO2 CH4	Ibiday	0.0000	3,685.656	
NBio-CO2			3,685.656 3,685.656 9	3,685.656 3,685.656 9
Bio- CO2				
PM2.5 Total		9.9307	1.8809	11.8116
Exhaust PM2.5		0.0000 18.0663 9.9307 0.0000 9.9307	1.8809	1.8809
Fugitive PM2.5		9.9307		
PM10 Total		18.0663	2.0445	20.1107 9.9307
Exhaust PM10	lb/day	0.000.0	2.0445	2.0445
SO2 Fugitive PM10	lb/c	18.0663		18.0663
S02			0.0380	0.0380
00			21.1543	21.1543
R0G NOx CO			40.4971 21.1543 0.0380	3.8882 40.4971 21.1543 0.0380 18.0663
ROG			3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021 Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	193.1472	193.1472
NZO					
CH4	(a)	0.0000	0.0000	5.6800e- 003	5.6800e- 003
Total CO2	lb/day	0.0000	0.0000	193.0052 193.0052	193.0052
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	193.0052	193.0052
			: : :		
PM2.5 Total		0.000.0	0.0000	0.0549	0.0549
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.0000	1.5000e- 003	1.5000e- 003
Fugitive PM2.5		0.0000 0.0000 0.0000	0.0000	0.0534	0.0534
PM10 Total		0.0000	0.0000	0.2028	0.2028
Exhaust PM10	lb/day	0.0000	0.0000	1.6300e- 003	1.6300e- 0. 003
SO2 Fugitive PM10	Ib/	0.0000	0.0000	0.2012	0.2012
S02		0.0000	0.0000	9 1.9400e- 003	0.6629 1.9400e- 003
00		0.0000	0.00	0.6629	0.6629
ROG NOX		0.0000	0.0000	0.0587	0.0587
ROG		0.0000	0.0000	0.0858	0.0858
	Category	Hauling	Vendor	Worker	Total

C02e		0.0000	3,715.457	3,715.457 3
N2O				
CH4	٨		1.1920	1.1920
Fotal CO2	lb/day	0.0000	3,685.656	3,685.656
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e			3,685,656 13,685,656 9	0.0000 3,685.656 3,685.656
Bio- CO2			0.0000	0.0000
PM2.5 B Total		9.9307	1.8809	11.8116
Exhaust PM2.5		0.000.0	1.8809	9.9307 1.8809 11.8116
Fugitive Exhaust PM2.5 PM2.5		18.0663 0.0000 18.0663 9.9307 0.0000		9.9307
PM10 Total		18.0663	2.0445	20.1107
Exhaust PM10	lb/day	0.0000	2.0445	2.0445
Fugitive PM10	JP/K	18.0663		18.0663
S02			0.0380	0.0380
00			21.1543	21.1543
NOx			3.8882 40.4971 21.1543	3.8882 40.4971 21.1543 0.0380 18.0663
RoG			3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

F F GGER	) <sub>(2</sub> . 25. 7	1	,	7	T
CO2e		0.0000	0.0000	193.1472	193.1472
NZO					
CH4	as as	0.0000	0.000.0	5.6800e- 003	5.6800e- 003
Total CO2	lb/day	0.0000	0.000.0		193.0052
NBio-CO2		0.0000	0.000.0	193.0052 193.0052	193.0052
Bio- CO2 NBio- CO2 Total CO2 CH4 N2O					
PM2.5 Total		0.0000	0.0000	0.0549	0.0549
Exhaust PM2.5		0.000.0	0.000.0	1.5000e- 003	1.5000e- 003
Fugitive PM2.5		0.0000	0.0000	0.0534	0.0534
PM10 Total		0.000.0	0.000.0	0.2028	0.2028
Exhaust PM10	lay	0.0000 0.0000 0.0000 0.0000	0.0000	1.6300e- 003	1.6300e- 003
Fugitive PM10	(kep/qi	0.0000	0.0000	0.2012	0.2012
S02		0.000.0	0.000.0	1.9400e- ( 003	0.6629 1.9400e- 003
ဝ၁		0.0000	0.0000	0.6629	0.6629
NOX CO SO2		0.0000 0.0000 0.0000	0.0000	0.0587	0.0587
ROG		0.0000	0.0000	0.0858	0.0858
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2021 Unmitigated Construction On-Site

Fr 30. ****	Tr. autoret en		<del>,</del>	
CO2e		0.0000	6,055.613	6,055.613 4
N20				<u></u>
1000	<b>A</b>		1.9428	1.9428
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4	Ib/day	0.000.0	6,007.043 6,007.043 1.9428 4 4	6,007.043 6,007.043
NBio-CO2			6,007.043	6,007.043 4
Bio-CO2		-1-1-1-1	1 1 1 1 1	
PM2.5 Total		3,5965	1.8265	5.4230
Exhaust PM2.5		0.0000	1.8265	1.8265
PM10 Fugitive Total PM2.5		3.5965		3.5965
PM10 Total		8.6733	1.9853	10.6587
Exhaust PM10	lb/day	0.0000 8.6733	1.9853	1.9853
Fugitive PM10	<b>/Q</b> l	8.6733		8.6733
S02			0.0620	0.0620
00			30.8785	30.8785
NOX			4.1912 46.3998 30.8785	4.1912 46.3998 30.8785
ROG			4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021
Unmitigated Construction Off-Site

1.5.5e 1. E.A.S	Tariffor total				<del></del>
C02e		0.0000	0.0000	214.6080	214.6080
NZO					
CH4	ay.	0.0000	0.000.0	6.3100e- 003	6.3100e- 003
Total CO2	lb/day	0.0000 0.0000 0.0000	0.0000	214.4502 6.3100e- 003	214.4502
NBio-CO2		0.000.0	0.0000	214.4502	214.4502 214.4502
Bio-CO2 NBio-CO2 Total CO2 CH4					
PM2.5 Total		0.000.0	0000.0	0.0610	0.0610
Exhaust PM2.5		0.000.0	0.0000	1.6600 <del>e-</del> 003	1.6600e- 003
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000 0.0000	0.0000	0.0593	0.0593
PW10 Fotal		0.0000	0.0000	0.2254	0.2254
Exhaus PM10	iay	0.0000	0.0000	1.8100e- 003	1.8100e- 003
Fugitive PM10	lb/day	0.000.0	0.000.0	0.2236	0.2236
		0.000.0	0.000.0	2.1500e- 003	2.1500e- 003
co soz		0.000.0	0.0000 0.0000	0.7365 2.1500e- 003	0.7365 2.1500e- 003
ROG NOx		0.0000 0.0000 0.0000	0.0000	0.0652	0.0652
ROG		0.0000	0.0000	0.0954	0.0954
	Category	Hauling	Vendor	Worker	Total

CO2e		0.0000	6,055.613	6,055.613 4
NZO				
CH4	a).		1.9428	1.9428
Total CO2	sep/ql.	0.0000	6,007.043 4	6,007.043 4
NBio- CO2			0.0000 6,007.043 6,007.043 1.9428 4 4	0.0000 6,007.043 6,007.043 4 4
Bio-CO2 NBio-CO2 Total CO2 CH4			0.0000	0.0000
PM2.5 Total		3.5965	1.8265	5.4230
Exhaust PM2.5		0.0000	1.8265	1.8265
ugitive PM2.5			       	3.5965
PM10 Total		0.0000 8.6733 3.5965	1.9853	10.6587
Exhaust PM10	ay.	0.0000	1.9853	1.9853
Fugitive PM10	lb/day	8.6733		8.6733
S02			0.0620	0.0620
CO SO2				30.8785
NOX			4.1912 46.3998 30.8785	4.1912 46.3998 30.8785 0.0620
ROG			4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

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3.4 Grading - 2021

Mitigated Construction Off-Site

CO2e		0.0000	0.0000	214.6080	214.6080
N2O					
CH4	bíday	0.0000	0.0000	6.3100e- 003	6.3100e- 003
Total CO2	) <u>q</u>	0.0000 0.0000	0.0000	214.4502 214.4502	214.4502
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000	0.0000	214.4502	214.4502
Bio-CO2			; ; ; ; ; ;	 	
PM2.5 Total		0.000.0	0.0000	0.0610	0.0610
Exhaust PM2.5		0.0000 0.0000 0.0000	0.000	1.6600e- 003	1.6600e- 003
Fugitive PM2.5		0.000.0	0.0000	0.0593	0.0593
PM10 Total		0.000	0.0000	0.2254	0.2254
Exhaust PM10	lb/day		0.0000	1.8100e- 003	1.8100e- 003
Fugitive PM:10	<b>.Ib/</b>	0.0000	0.0000	0.2236	0.2236
S02		0.0000	0.0000	2.1500e- 0.2 003	35 2.1500e- 003
00		0.0000	0.0000	0.7365	0.73
XON		0.0000 0.0000 0.0000 0.0000	0.0000	0.0652	0.0652
ROG		0.0000	0.0000	0.0954	0.0954
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2022

1917 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Maria de la compansión de			<del>,</del> .
C02e		0.0000	6,060.015 8	6,060.015 8
N2O				
CH4			1.9442	1.9442
otal CO2	lb/day	0.0000	5,011.410	,011.410 5
IBio-CO2 1			6,011,410 6,011,410 1.9442 5 5	6,011.410 6,011.410 1.9442 5
Bio- CO2 N			ίΨ	•
PM2.5   Bio. CO2   NBio. CO2   Total CO2   CH4   N2O   CO2e   Total		3.5965	1,5041	5.1006
Exhaust PM2.5		8.6733 0.0000 8.6733 3.5965 0.0000 3.5965	1.5041	1.5041
gitive Exhaust PM10 Fugitive Exhaust PM2.5 PM2.5		3.5965	}             	3.5965
PM10 Total		8.6733	1.6349	
Exhaust PM10	lay	0.0000	1.6349	1.6349 10.3082
Fugitive PM10	/lp/day	8.6733		8.6733
\$02			0.0621	0.0621
ဝ၁			29.0415	29.0415
NOX			3.6248 38.8435 29.0415 0.0621	3.6248 38.8435 29.0415 0.0621
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2022
Unmitigated Construction Off-Site

	Frida erac.				
CO2e		0.0000	0.0000	207.0563	207.0563
NZO					
CH4	ay	0.000	0.0000	5.7000e- 003	5.7000e- 003
Total CO2	lb/day	0.000.0	0.0000	206.9139	206.9139 206.9139
NBio-CO2		0.000.0	0.000.0	206.9139	206.9139
Bio-CO2 NBio-CO2 Total CO2 CH4					
t PM2.5 Total		0.0000	0.000.0	0.0609	0.0609
Fugitive Exhaust PM2.5 PM2.5		0.000.0 0.000.0 0.000.0	0.0000	1.6100e- 003	1.6100e- 003
Fugitive PM2.5		0.000.0	0.000	0.0593	0.0593
PM10 Total		0.0000	0.000.0	0.2253	0.2253
Exhaust PM10	lay	0.0000	0.0000	1.7500e- 003	1.7500e- 003
Fugitive PM10	lb/day	0.0000	0.000.0	0.2236	0.2236
co sos		0.0000	0.000.0	4 2.0800e- 003	2.0800e- 003
တ		0.0000	0.00	0.678	0.6784
XON		0.0000 0.0000 0.0000	0.0000 0.0000	0.0589	0.0589
ROG		0.0000	0.0000	0.0896	9680'0
	Category	Hauling	Vendor	Worker	Total

C02e		0.0000	6,060.015	6,060.015 8
N2O CO2e				
CH4	lb/day		1.9442	1.9442
Total CO2	p/g]	0.0000	6,011.410 5	6,011.410 5
NBio- CO2			0.0000 6,011.410 6,011.410 1.9442 5 5	<b>6,011.410</b> 5
Bio- CO2			0.0000	0.0000 6,011,410 6,011,410 1.9442 5
Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 PM2.5 PM2.5 Total		3.5965	1.5041	5.1006
Exhaust PM2.5		0.0000	1.5041	1.5041
Fugitive PM2.5		3.5965		1.6349 10.3082 3.5965
PM10 Total		8.6733	1.6349	10.3082
Fugitive Exhaust PM10 PM10	Jay	8.6733 0.0000 8.6733	1.6349	1.6349
Fugitive PM10	Ib/day	8.6733		8.6733
S02			0.0621	0.0621
NOX CO			29.0415	29.0415
1.04° M(1.4)			3.6248 38.8435 29.0415 0.0621	3.6248 38.8435 29.0415 0.0621
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2022
Mitigated Construction Off-Site

C02e		0.0000	0.000.0	207.0563	207.0563
N20					
CH4	âs.	0.0000	0.0000	5.7000e- 003	5.7000e- 003
Total CO2	lb/day	0.0000	0.0000	206.9139 - 206.9139	206.9139
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	206.9139	206.9139
Bio-CO2					
ist PM2.5 E 5 Total		0.0000	0.0000	0.0609	6090'0
Fugitive Exhaust PM2.5 PM2.5		0.000.0	0.0000	1.6100e- ( 003	1.6100e- 003
Fugitive PM2.5		0.0000 0.0000	0.0000	0.0593	0.0593
st PM10 Total		0.0000	0.000	0.2253	0.2253
Exhaus PM10	lb/day	0.0000	0.0000	1.7500e- 003	1.7500e- 003
Fugitive PM10	)/g[	0.0000	0.0000	0.2236	0.2236
S02		0.0000	0.0000	2.0800e- 003	0.6784 2.0800e- 003
00		0.0000	0.0000	0.6784	0.6784
NOX		0.0000 0.0000 0.0000	0.0000	0.0589	0.0589
ROG		0.0000	0.0000	0.0896	9680'0
	Category	Hauling	Vendor	Worker	Total

3.5 Building Construction - 2022

100000000000000000000000000000000000000		_	
COZe		2,569.632 2	2,569.632 2
NZO			
ОНИ		0.6120	0.6120
otal CO2	lb/day	,554.333 6	,554.333 6
Bio-CO2 1		2,554.333 2,554.333 0.6120 6 6	2,554.333 2,554.333 0.6120 6
Bjo- CO2 N		· · · · ·	
Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4		0.7612	0.7612
Exhaust PM2.5		0.7612	0.7612
Fugitive PM2.5			
PM10 Total		0.809.0	0.809.0
Exhaust PM10	lay	0.8090 0.8090	0.8090
Fugitive PM10	lb/day		
S02		0.0269	0.0269
8		16.3634	16.3634
NOX		15.6156	15.6156 16.3634 0.0269
ROG		1.7062 15.6156 16.3634 0.0269	1.7062
	Category	Off-Road	Total

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

3.5 Building Construction - 2022
Unmitigated Construction Off-Site

					_
C02e		0.0000	3,795.028 3	8,292.605 8	12,087.63 41
N2O CO2e					
CH4	as,	0.000	0.2381	0.2282	0.4663
Total CO2	/ip/qa	0.0000	3,789.075	8,286.901 3	12,075.97 63
NBio- CO2		0.000.0	3,789.075 0	8,286.901 8,286.901 3	12,075.97 12,075.97 63 63
Bio- CO2 NBio- CO2 Total CO2 CH4			1 1 1 1 1 1		
PM2.5 Total		0.0000	0.2881	2.4390	2.7271
Exhaus PM2.5		0.0000	0.0245	0.0646	0.0891
PM10 Fugitive Total PM2.5		0.0000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9412	9.0234	9,9645
Exhaust PM10	iay	0.0000	0.0256	0.0701	0.0957
Fugitive Exhaust PM10 PM10	lb/day	0.0000	0.9155	8.9533	8898'6
<b>SO</b> 2		0.0000	0.0354	0.0832	0,1186
00		0.0000	3.8005	27.1680	30.9685
ROG NOx CO SO2		0.0000	0.4284 13.1673 3.8005	2.3593 27.1680	4.0156 15.5266 30.9685 0.1186
ROG		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.4284	3.5872	4.0156
	Category	Hauling	Vendor	Worker	Total

C02e	2,569.632 2	2,569.632 2
N20		
72 CH4 b/day	0.6120	0.6120
Total CO2	2,554.333 6	2,554.333 6
Bio- CO2   NBio- CO2   Total CO2   CH4	0.0000 2,554.333 2,554.333 0.6120 6 6	0.0000 2,554.333 2,554.333 0.6120
Bio- CO2	0.0000	0.0000
PM2.5 B	0.7612 0.7612	0.7612
Fugitive Exhaust PM2.5 PM2.5	0.7612	0.7612
Fugitive PM2.5		
PM10 Total	0608.0	0.8090
tive Exhaust 110 PM10 Ib/day	0.8090 0.8090	0.8090
Fugitive PM10		
S02	0.0269	0.0269
8	16.3634	16.3634
XOX	1.7062 15.6156 16.3634 0.0269	1.7062 15.6156 16.3634 0.0269
ROG	1.7062	1.7062
Category	Off-Road	Total

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

3.5 Building Construction - 2022
Mitigated Construction Off-Site

Fr 27 (19)	08.88040	r—	' m	'	T
CO2e		0.0000	3,795.028 3	8,292.605 8	12,087.63 41
.N20					
CH4	ay	0.000	0.2381	0.2282	0.4663
Total CO2	lb/day	0.0000 0.0000	3,789.075 3,789.075 0 0	8,286.901 8,286.901 3	12,075.97 12,075.97 63 63
NBio-CO2		0.000.0	3,789.075 0	8,286.901 3	12,075.97 63
Bio-CO2 NBio-CO2 Total CO2 CH4				1 1 1 1	
PM2.5 Total		0.0000	0.2881	2.4390	2.7271
Exhaust PM2.5		0.0000	0.0245	0.0646	0.0891
Fugitive Exhaust PM2:5 PM2.5		0.000 0.0000 0.0000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9412	9.0234	9.9645
Exhaust PM10	lay.	0.0000	0.0256	0.0701	0.0957
Fugitive Exhaust PM10 PM10	lb/day	0.0000	0.9155	8.9533	9,8688
SO2		0.0000	0.0354	0.0832	0.1186
00		0.000.0	3.8005	27.1680	30.9685
NOX		0.0000 0.0000 0.0000	0.4284 13.1673 3.8005	2.3593 27.1680 0.0832	15.5266 30.9685
ROG		0.0000	0.4284	3.5872	4.0156
	Category	Hauling	Vendor	Worker	Total

# 3.5 Building Construction - 2023

CO2e		2,570.406 1	2,570.406 1
NZO			
СН4	*	0.6079	0.6079
Fotal CO2	lb/day	2,555.209 9	2,555.209 9
JBio-CO2		2,555.209 2,555.209 0.6079 9 9	2,555.209 2,555.209 0.6079 9
Bie-CO2 NBie-CO2 Total CO2 CH4 N2O CO2e			
PM2.5 Total		0.6584	0.6584
Exhaust PM2.5		0.6584	0.6584
Fugitive Exhaust PM2.5 PM2.5			
PM10 Total		0.6997	0.6997
itive Exhaust PM10 410 PM10 Total	ay	0.6997	0.6997
Fugitive PM10	lb/day		
S02		0.0269	0.0269
		16.2440	16.2440
ROG NOX CO		14.3849	1.5728 14.3849 16.2440 0.0269
ROG		1.5728 14.3849 16.2440 0.0269	1.5728
	Category	Off-Road	Total
	Cal	ő	-

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

10000000	Tay a nepari		<del>,</del>	1	T.
CO2e		0.0000	3,676.641	7,988.868 3	11,665.50 99
NZO					
CF4	lay	0.000.0	0.2096	0.2055	0.4151
Total CO2	lb/day	0.0000 0.0000	3,671.400 3,671.400 0.2096	7,983.731 8	11,655.13 11,655.13 25 25
Bio-CO2 NBio-CO2 Total CO2		0.000.0	3,671.400 7	7,983.731 8	11,655.13 25
			 	1 1 1 1 1 1 1 1	
PM2.5 Total		0.0000	0.2752	2.4372	2.7124
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0116	0.0627	0.0743
Fugitive PM2.5		0.0000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9277	9.0214	9.9491
Exhaust PM10	lb/day	0.0000	0.0122	0.0681	£080°0
Fugitive PM10	/ql	0.0000	0.9156	8.9533	8898'6
100000000000000000000000000000000000000		0.0000	0.0343	0.0801	0.1144
8		0.0000	3.3771	24.9725	28.3496
NOx CO SO2		0.0000 0.0000 0.0000	9.9726	3.3795 2.1338 24.9725	3.6978 12.1065 28.3496 0.1144
ROG		0.0000	0.3183	3.3795	3.6978
	Category	Hauling	Vendor	Worker	Total

C02e		2,570.406 1	2,570.406 1
N2O			
CH4	lb/day.	0.6079	0.6079
Total CO2	)/ql	2,555.209 9	2,555.209 9
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		0.0000 2,555.209 2,555.209 0.6079	0.0000 2,555.209 2,555.209 0.6079
Bio-CO2		L	0.0000
r PM2.5 Total		0.6584	0.6584
Exhaust PM2.5		0.6584	0.6584
Fugitive PM2.5			
PM10 Total		0.6997	7669.0
Exhaust PM10 Fügitive Exhaust PM10 Total PM2.5 PM2.5	lb/day	0.6997	0.6997
Fugitive PM10	//qı		
S02		0.0269	0.0269
တ		16.2440	16.2440
ROG NOx		14.3849	1.5728 14,3849 16,2440
ROG		1.5728 14.3849 16.2440 0.0269	1.5728
	Category	Off-Road	Total
	Ö	ф	

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3.5 Building Construction - 2023
Mitigated Construction Off-Site

		_			
CO2e		0.0000	3,676.641 7	7,988.868	11,665.50 99
N2O				 	
CH4	à	0.0000	0.2096	0.2055	0.4151
Total CO2	lb/day	0.0000	3,671.400 7	7,983.731 8	11,655.13 11,655.13 25 25
NBio-CO2		0.0000	3,671,400 3,671,400 0.2096 7	7,983.731 7,983.731 8 8	11,655.13 25
Bio- CO2 NBio- CO2 Total CO2					
PM2.5 Total		0.0000	0.2752	2.4372	2.7124
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000	0.0116	0.0627	0.0743
Fugitive PW2.5		0.0000	0.2636	2.3745	2.6381
PM10 Total		0.0000	0.9277	9.0214	9.9491
Exhaust PM10	lay	0.0000 0.0000	0.0122	0.0681	0.0803
Fugitive PM10	lb/day	0.000.0	0.9156	8.9533	9.8688
S02		0.0000	0.0343	0.0801	0.1144
co soz		0.0000	3.3771	24.9725	28.3496
×on		0.0000 0.0000 0.0000 0.0000	9.9726	2.1338	3.6978 12.1065 28.3496
ROG		0.0000	0.3183	3.3795	3.6978
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2023
Unmitigated Construction On-Site

	No ver			,
COZe		2,225.433	0.0000	2,225.433 6
N20				
	Хe	0.7140		0.7140
Total CO2	lb/day	2,207.584	0.0000	2,207.584
NBio-CO2		2,207.584 2,207.584 0.7140 1	· • ·	2,207.584 2,207.584
Bio-CO2 NBio-CO2 Total CO2 CH4				
PM2.5 Total		0.4694	0.0000	0.4694
Exhaust PM2.5		0.4694	0.0000	0.4694
Fugitive PM2.5			           	
PM10 Total		0.5102	0.0000	0.5102
Fugitive Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5	ay	0.5102	0.0000	0.5102
Fugitive PM10	lb/day		 ! ! !	
S02		0.0228		0.0228
8		14.5842		14.5842
ROG NOx CO SO2		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total
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3.6 Paving - 2023
Unmitigated Construction Off-Site

(	100000000000000000000000000000000000000				
C02e		0.0000	0.0000	149.6043	149.6043
N2O					
CH4	[b/day]	0.0000	0.0000	3.8500e- 003	3,8500e- 003
Total CO2	)qI	0.0000 0.0000 0.0000	0.0000	149.5081	149.5081 149.5081
Bio-CO2 NBio-CO2 Total CO2		0.0000	0.0000	149.5081	149.5081
Bio-CO2			:		
t PM2.5 E		0.0000	0.0000	0.0456	0.0456
Exhaust PM2.5		0.0000	0.0000	1.1700e- 003	1.1700e- 003
Fugitive PM2.5		0.000.0	0.0000	0.0445	0.0445
PM10 Total		0.000.0	0.0000	0.1689	0.1689
Exhaust PM10	lb/day	0.000.0	0.000.0	1.2800e- 003	1.2800e- 0 003
Fugitive PM10	)/gl	0.0000	0.000.0	0.1677	0.1677
S02		0.0000	0.0000	1.5000e- 003	0.0400 0.4677 1.5000e-
NO <sub>X</sub> CO		0.0000	0.0000	0.4677	0.4677
XON		0.0000	0.0000	0.0633 0.0400 0.4677 1.5000e- 0.1677 003	
ROG		0.0000 0.0000 0.0000 0.0000	0.0000	0.0633	0.0633
	Category	Hauling	Vendor	Worker	Total

CO2e		2,225.433 6	0.0000	2,225.433 6
NZO				
CH4	b/day	0.7140		0.7140
Total CO2	<u>//GI</u>	2,207.584	0.0000	2,207.584 1
NBio- CO2		0.0000 2,207.584 2,207.584 0.7140	i ! !	0.0000 2,207.584 2,207.584
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 Total		0.0000	: : : : : : :	0.000
		0.4694 0.4694	0.0000	0.4694
Fugitive Exhaust PM2.5 PM2.5		0.4694	0.000.0	0.4694
Fugitive PM2.5				
PM10 Total		0.5102	0.0000	0.5102
Exhaust PM10	lb/ɗay	0.5102	0.0000	0.5102
Fugitive PM10	lb/			
S02		0.0228		0.0228
NOX		14.5842		14.5842
		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842 0.0228
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total

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3.6 Paving - 2023

Mitigated Construction Off-Site

CO2e		0.0000	0.0000	149.6043	149.6043
NZO					
CH4	p/day	0.0000	0.0000	3.8500e- 003	3.8500e- 003
Total CO2	yq)	0.000	0.0000	149.5081	149.5081
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	0.0000	149.5081	149.5081
Bio-CO2			1 1 1 1 1	1 1 1 1 1 1	
t PM2.5 Total		0.0000	0.0000	0.0456	0.0456
Exhaust PM2.5			0.0000	1.1700e- 003	1.1700e- 003
Fugitive PM2.5		0.0000 0.0000 0.0000 0.0000	0.000	0.0445	0.0445
PM10 Total		0.0000	0.000.0	0.1689	0.1689
Exhaust PM10	lb/day	0.0000	0.000.0	1.2800e- 003	1.2800e- 003
Fugitive PM10	/IP/	0.0000	0.0000	0.1677	0.1677
co soz		0.0000	0.0000	1.5000e- ( 003	1.5000e- 003
တ		0.0000	0.0000	0.4677	0.4677
XON		0.000 0.0000 0.0000	0.0000 0.0000	0.0400	0.0400 0.4677 1.5000e-
ROG		0.0000	0.0000	0.0633	0.0633
	Category	Hauling	Vendor	Worker	Totai

3.6 Paving - 2024

		æ	:_	g
CO2e		2,225.396 3	0.0000	2,225.396 3
NZO				
of Charles a Sec.	) Ae	0.7140		0.7140
Total CO2	kep/qi	2,207.547 2	0.0000	2,207.547 2
Bio-CO2 NBio-CO2 Total CO2 CH4		2,207.547 2,207.547 0.7140 2 2 2		2,207.547 2,207.547 2 2
Bio- CO2				
PM2.5 Total		0.4310	0.0000	0.4310
PM10 Fügitive Exhaust Total PM2.5 PM2.5		0.4310	0.0000	0.4310 0.4310
Fügitive PM2.5				
PM10 Total		0.4685	0.000.0	0.4685
Exhaust PM10	lb/day	0.4685 0.4685	0.000.0	0.4685
SO2 Fugitive Exhaust PM10 PM10	<i>y</i> gi			
S02		0.0228		0.0228
8		14.6258		14.6258
ROG NOX CO		0.9882 9.5246 14.6258 0.0228		0.9882 9.5246 14.6258 0.0228
ROG		0.9882	0.0000	0.9882
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2024
Unmitigated Construction Off-Site

F 7 KOUST	Harita da	1			_
CO2e		0.0000	0.0000	144.9587	144.9587
NZO					
Ç <del>.</del>	lb/day	0.0000	0.0000	3.5300e- 003	3.5300e- 003
Total CO2	)qq	0.0000 0.00000 0.00000	0.0000	144.8706 144.8706	144.8706 144.8706 3.5300e-
NBio-CO2		0.0000	0.0000	144.8706	144.8706
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total					
PM2.5 Total		0.000	0.0000	0.0456	0.0456
Exhaust PM2.5		0.0000 0.0000	0.0000	1.1600 <del>e</del> - 003	1.1600e- 003
Fugitive PM2.5		0.0000	0.0000	0.0445	0.0445
PM10 Total		0.0000	0.0000	0.1689	0.1689
Exhaust PM10	day	0.0000	0.000	1.2600e- 003	1.2600e- 003
Fugitive PM10	lb/day	0.0000	0.0000	0.1677	0.1677
20S		0.0000	0.0000	1.4500e- 003	1.4500e- 003
NOx CO SOZ		0.0000	0.0000	0.4354	0.4354
		0.0000 0.0000 0.0000 0.0000 0.0000	0.000 0.0000	0.0601 0.0364 0.4354 1.4500e- 0.1677 003	0.0601 0.0364 0.4354 1.4500e-
ROG		0.0000	0.0000	0.0601	0.0601
	Category	Hauling	Vendor	Worker	Total

CO2e		2,225.396 3	0.0000	2,225.396 3
N2O				
CF44	lb/day	0.7140		0.7140
Total CO2	//ql	2,20 <b>7</b> .547 2	0.0000	2,207.547 2
NBio-CO2		0.0000 2,207.547 2,207.547 0.7140		2,207.547 2
Bio-CO2		0.0000	 	0.0000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e Total		0.4310	0.0000	0.4310 0.0000 2,207.547 2,207.547 0.7140
Exhaust PM2.5		0.4310	0.0000	0.4310
Fugitive PM2.5				
PM10 Total		0.4685	0.0000	0.4685
Exhaust PM10	day	0.4685 0.4685	0.0000	0.4685
Fugitive PM10	lb/day.			
S02		0.0228		0.0228
00		14.6258		14.6258
NOX		9.5246		9.5246 14.6258
ROG		0.9882 9.5246 14.6258 0.0228	0.0000	0.9882
	Category	Off-Road	Paving	Total

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3.6 Paving - 2024
Mitigated Construction Off-Site

C02e		0.0000	0.0000	144.9587	144,9587
N2O					
CH4	jay	0.0000	0.0000	3.5300e- 003	3.5300e- 003
Total CO2	lb/day	0.0000	0.0000	144.8706	144.8706
NBio-CO2		0.000.0	0.0000	144.8706 144.8706	144.8706
Bio- CO2 NBio- CO2 Total CO2 CH4 N2O				,	
PM2.5 Total		0.0000	0.0000	0.0456	0.0456
Exhaust PM2.5		0.0000	0.0000	1.1600e- 003	1.1600e- 003
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000	0.0000	0.0445	0.0445
PM10 Total		0.000.0	0.000.0	0.1689	0.1689
Fugitive Exhaust PM10 PM10	lb/day	0.0000	0.0000	1.2600e- 003	7 1.2600e- 003
Fugitive PM10	/qı	0.0000	0.0000	0.167	0.167
S02		0.0000	0.0000	0.4354 1.4500e- 003	1,4500e- 003
တ		0.0000	0.0000 0.0000	0.4354	0.4354
ROG NOx CO SO2		0.0000 0.0000 0.0000 0.0000	0.0000 0.0000	0.0364	0.0601 0.0364 0.4354 1.4500e- 0.0364 0.0354 0.03
ROG		0.0000	0.0000	0.0601	0.0601
	Category	Hauling	Vendor	Worker	Total

3.7 Architectural Coating - 2024

.2e		000	3443	3443
CO2e		0.0000	281.8443	281.8443
NZO			<u> </u>	
CH4	lb/day		0.0159	0.0159
Total CO2	ygı .	0.0000	281.4481	281.4481 281.4481
NBio-CO2			281.4481 281.4481 0.0159	281.4481
BIO-CO2 NBIO-CO2 TOTALCO2 CH4				
PM2.5 Total		0.000.0	0.0609	0.0609
Exhaust PM2.5		0.0000	0.0609	0.0609
PM10 Fugitive Total PM2:5				
PM10 Total		0.000.0	0.0609	6090.0
Exhaust PM10	ay	0.000.0	0.0609	0.0609
Fugitive PM10	lb/day.			
<b>S</b> 02			1.8101 2.9700e- 003	2.9700e- 003
<u>0</u>			1.8101	1.8101
ROG NOX			1.2188	236.5923 1.2188 1.8101 2.9700e- 003
ROG		236.4115	0.1808	236.5923
	Category	Archit. Coating 236.4115	Off-Road	Total

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

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3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

and the same	The endoeses				
C02e		0.0000	0.0000	1,546.226	1,546.226 2
NZO					
CH4	Å	0.000.0	0.000.0	0.0376	0.0376
Total CO2	lb/day	0.0000	0.000.0	1,545.286	1,545.286
NBio-CO2		0.0000	0.0000	1,545.286 1,545.286 0 0	1,545.286 1,545.286 0 0
Bio-CO2 NBio-CO2 Total CO2 CH4					
PM2.5 Total		0.0000	0.000.0	0.4866	0.4866
Exhaust PM2.5		0.000.0	0.000.0	0.0123	0.0123
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	0.4743	0.4743
PM10 Total		0.0000	0.0000	1.8018	1.8018
Exhaust PM10	lb/day	0.0000	0.000	0.0134	0.0134
Fugitive PM10	)/qi	0.0000	0.0000	1.7884	1.7884
S02		0.0000	0.0000	0.0155	0.0155
00		0.0000	0.0000	4.6439	4.6439
NOX		0.0000 0.0000 0.0000	0.0000	0.3886	0.3886
ROG		0.0000	0.0000	0.6406	0.6406
	Category	Hauling	Vendor	Worker	Total

N20 C02e		0.0000	281.8443	281.8443
AHO N	Á		0.0159	0.0159
Bio-CO2 NBio-CO2 Total CO2	(b/day	0.0000	0.0000 281.4481 281.4481	0.0000 281.4481 281.4481
NBio-CO2			281.4481	281.4481
Bio-CO2		) of of of	0.0000	0.0000
t PM2.5 5 Total		0.0000	0.0609	0.0609
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.0609	0.0609
Fugitive PM2.5			       	
PM10 Total		0.0000 0.0000	0.0609	0.0609
Exhaust PM10	lb/day	0.0000	0.0609	0.0609
Fugitive PM10	g)			
<b>S</b> 02			2.9700e- 003	2.9700e- 003
00			1.8101	1.8101
XON.			1.2188 1.8101 2.9700e-	236.5923 1.2188 1.8101 2.9700e-
ROG		236.4115	0.1808	236.5923
	Category	Archit. Coating 236.4115	Off-Road	Total

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

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3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

C02e		0.0000	0.0000	1,546.226 2	1,546.226 2
N2O					
CH4	asy	0.0000	0.0000	0.0376	0.0376
Total CO2	lb/day.	0.0000	0.0000	1,545.286	1,545.286 0
NBio-CO2		0.000.0	0.0000	1,545.286 1, 0	1,545.286 1,545.286 0 0
Bio- CO2 NBio- CO2 Total CO2					
PM2.5 Total		0.0000	0.0000	0.4866	0,4866
Exhaust PM2.5		0.000.0	0.0000	0.0123	0.0123
Fugitive PM2.5		0.0000	0.000.0	0.4743	0.4743
PM10 Total		0.0000	0.0000	1.8018	1.8018
Exhaust PM10	lay	0000 0.0000	0.000.0	0.0134	0.0134
Fugitive PM10	lb/day	0.0000	0.000.0	1.7884	1.7884
\$05		0.0000	0.0000	0.0155	0.0155
တ		0.0000	0.0000	4.6439	4.6439
OO XON		0.0000 0.0000 0.0000	0.0000	0.3886	0.3886
Roe		0.0000	0.0000	0.6406	0.6406
	Category	Hauling	Vendor	Worker	Total

# 4.0 Operational Detail - Mobile

# 4.1 Mitigation Measures Mobile

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

C02e	47,972.68 39	47,972.68 39
N2O	47	47
CH4	2.1953	2.1953
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4	47,917.80 47,917.80 2.1953 05 05	47,917.80 47,917.80 2.1953 05 05
NBio- CO2	47,917.80 4 05	47,917.80 4 05
Bio-CO2		
PM2.5 Total	12.6083	12.6083
Jugitive Exhaust PM10 Fugitive Exhaust PM10 PM2.5 PM2.	.9592 0.3373 46.2965 12.2950 0.3132 12.6083	0.3373 46.2965 12.2950 0.3132 12.6083
Fugitive PM2.5	12.2950	12.2950
PM10 Total	46.2965	46.2965
Exhaust PM10 b/day	0.3373	0.3373
Fugitive PM10	45.9592	45.9592
S02	0.4681	0.4681
8	110.0422	110.0422
ROG NOX CO SO2 Fu	9.5233 45.9914 110.0422 0.4681 45	9.5233 45.9914 110.0422 0.4681 45.
ROG	9.5233	9.5233
Category	Mitigated	Unmitigated

## 4.2 Trip Summary Information

	Avera	Average Daily Trip Rate	ate	Unmitigated	Mitigated
Land Use	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

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	395	Γ	:	:	:	<u>.                                    </u>		;
% e	Pass-by	3	3	4	43	4	44	11
Trip Purpose %	Diverted	=	<del>-</del>	19	20	38	8	35
	Primary	98	98	77	37	28	38	54
	H-W or C-W H-S or C-C H-O or C-NW	40.60	40.60	19.00	19.00	19.00	19.00	19.00
Trip %	H-S or C-C	19.20	19.20	48.00	72.50	61.60	69.00	64.70
		40.20	40.20	33.00	8.50	19.40	12.00	16.30
	H-W or C-W H-S or C-C H-O or C-NW	8.70	8.70	6.90	6.90	6.90	6.90	6.90
Miles	J-⊃ or S-H	5.90	5.90	8.40	8.40	8.40	8.40	8.40
	H-W or C-W	14.70	14.70	16.60	16.60	16.60	16.60	16.60
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down	Hotel		Regional Shopping Center

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	. LHD2	LDA LDT1 LDT2 MDV LHD1 LHD2 MHD OBUS UBUS WCY SBUS	ОНН	SOBO	SNBO	MCY	SBOS	MH
Apartments Low Rise	0.543088 0.044216	0.044216	0.209971	0.116369	0.014033	0.006332	0.543088 0.04216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.543088 0.044216 0.209971	0.209971	0.116369	0.014033	0.006332	0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.543088 0.044216 0.2	0.209971	0.116369	0.014033	0.006332		0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088 0.0	0.044216	0.209971	0.116369	09971	0.006332		0.033577	0.002613	.002613 0.001817 0.005285	0.005285	0.000712	0.000821
Hotel	0.543088 0.044216	0.044216	0.209971	0.116369	0.014033	0.006332	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	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	43088 0.044216	0.209971	0.116369	0.014033	0.006332	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712	0.033577	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	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

### 5.0 Energy Detail

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	ROG NOX CO	တ	S02	Fugitive PM10	Egitive Exhaust PM10 PM10 Total	PM10 Total	Fugitive PM2.5	Fugitive Exhaust PM2.5 PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total	CH4	NZO	C02e
Category					o/ql	iay							/kep/ql	ay		
NaturalGas Mitigated	0.7660		4.2573 0.0418	0.0418		0.5292 0.5292	0.5292	<b>-</b>	0.5292 0.5292	0.5292	-	8,355.983 2	8,355.983 $8,355.983$ $0.1602$	0.1602	0.1532 8,405.638	8,405.638 7
NaturalGas Unmitigated	0.7660	0.7660 6.7462 4.2573 0.0418	4.2573	0.0418	• • • • • • • • • • • • • • • • • • •	0.5292	0.5292		0.5292	0.5292		8,355.983	8,355.983 8,355.983 0.1602 2 2	0.1602	0.1532 8,405.638	8,405.638

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

5.2 Energy by Land Use - NaturalGas Unmitigated

NaturalGa s Use	ROG	XON	පි	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Bio-CO2 NBio-CO2 Total CO2	CH4	NZO	C02e
					lb/day.	lay							)(q)	lb/day		
1119.16 🐈 0	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
	0.3859	3.2978	1,4033	0.0211		0.2666	0.2666	 	0.2666	0.2666	1 1 1 1 1	4,209.916 4	4,209.916 4	0.0807	0.0772	4,234.933 9
	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 Tumover (Sit 22759.9 4 0 Down Restaurant)	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.634 2	2,677.634 2	0.0513	0.0491	2,693.546
4769.72 <b>11</b> 0	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
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
251.616 2.	2.7100e- 003	0.0247	0.0207	1.5000e- 004		1.8700e- 003	1.8700e- 003	<b></b>	1.8700e- 003	1.8700e- 003		29.6019	29.6019	5.7000e- 004	5.4000e- 004	29.7778
_	0.7660	6.7463	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355,983 2	8,355,983 2	0.1602	0.1532	8,405.638 7

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

5.2 Energy by Land Use - NaturalGas

#### Mitigated

C02e		132.4486	4,234.933	151.8884	2,693.546	564.4782	598.5658	29.7778	8,405.638 7
NZO		2.4100e- 003	0.0772	2.7700e- 003	0.0491	0.0103	0.0109	5.4000e- 004	0.1532
CHA	lay	2.5200e- 003	0.0807	2.8900e- 003	0.0513	0.0108	0.0114	5.7000e- 004	0.1602
Total CO2	ľb/day	131.6662	4,209.916 4	150.9911	2,677.634 2	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2 NBio-CO2 Total CO2		131.6662	4,209.916 4	150.9911	2,677.634	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2				1			: : : :		
PM2.5 Total		8.3400 <del>c-</del> 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM2.5		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM2.5									
PM10 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM10	lb/day	8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM10	lb/								
S02		6.6000e- 004	0.0211	7.5000e- 004	0.0134	2.8100e- 003	2.9800e- 003	1.5000e- 004	0.0418
00		0.0439	1.4033	0.1057	1.8743	0.3928	0.4165	0.0207	4.2573
NOX		0.1031	3.2978	0.1258	2.2314	0.4676	0.4959	0.0247	6.7463
ROG		0.0121	0.3859	0.0138	0.2455	0.0514	0.0545	2.7100 <del>c</del> - 003	0.7660
NaturalGa s Use	kBTU/yr	1.11916	35.7843	1.28342	22.7599	4.76972	5.05775	0.251616	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hoteí	Quality Restaurant	Regional Shopping Center	Total

### 6.0 Area Detail

### 6.1 Mitigation Measures Area

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0.3300 18,259.11 92	0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 50
0.3300	.3300
ļ · · · ·	<u>:</u> °
0.4874	0.4874
18,148.59 50	18,148.59
18,148.59 50	18,148.59
0.0000	0.0000
	1.5974
1.5974	1.5974
1.5974	1.5974
1.5974	1.5974
0.0944	0.0944
88.4430	88.4430
15.0496	15.0496
30.5020	30.5020 15.0496 88.4430 0.0944
Mitigated	Unmitigated
	30.5020 15.0496 88.4430 0.0944 1.5974 1.5974 1.5974 1.5974 1.5974

6.2 Area by SubCategory

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COZe		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
N2O				0.3300		0.3300
CH4	Àe .			0.3450	0.1424	0.4874
Total CO2	lb/day	0.0000	0.0000	18,000.00	148.5950	18,148.59 0 50
Bio- CO2 NBio- CO2 Total CO2				18,000.00 18,000.00 00 00	148.5950	0 18,148.59 18 50
Bio-CO2				0.0000		0.0000
PM2.5 Total		0.0000	0.0000	1.1400	0.4574	1.5974
Exhaust PM2.5		0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM2,5						
PM10 Total		0.0000	0.0000	1.1400	0.4574	1.5974
Exhaust PM10	lb/day	0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	/IP/		i         			
SO2				0.0900	4.3600e- 003	0.0944
ဝ၁				6.0000	82.4430	88.4430
NOx				14.1000	0.9496	15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

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

### 6.2 Area by SubCategory

#### Mitigated

E 75 285						<del></del>
CO2e		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
N2O				0.3300		0.3300
CH4	ay			0.3450	0.1424	0.4874
Total CO2	lb/day	0.000.0	0.000.0		148.5950	18,148.59 50
Bio- CO2 NBio- CO2 Total CO2				18,000.00 18,000.00 00 00	148.5950 148.5950	18,148.59 50
Bio- CO2				0.0000	; : : :	0.0000
PM2.5 Total		0.0000	0.000.0	1.1400	0.4574	1.5974
Exhaust PM2.5		0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM2.5				           		
PM10 Total		0.0000	0.0000	1.1400	0.4574	1.5974
Exhaust PM10	lb/day	0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	)/ql					
S02				0.0900	4.3600e- 003	0.0944
00				6.0000	82.4430	88.4430
×ON				14.1000 6.0000	0.9496	30.5020 15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

### 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

### 9.0 Operational Offroad

Fuel Type
oad Factor
se Power
ır Hors
Days/Yea
Hours/Day
Number
9
Equipment Typ

### 10.0 Stationary Equipment

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# Fire Pumps and Emergency Generators

Equip	Boilers
ment Type	
V	
Number	
Hours/Day	
Hours∕Year	
Horse F	
Power	
Load Factor	
Fuel Type	

Fuel Type

Boiler Rating

Heat Input/Year

Heat Input/Day

Number

Number

### 11.0 Vegetation

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**User Defined Equipment** 

Equipment Type

Equipment Type

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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

Floor Surface Area Population	0).00	0.00	0 00:	0 00:	).00	0.00	00.00
3, 6	45,000.00	36,000.00	72,600.00			6	56,000.00
Lot Acreage	1.03	0.83	1.67	0.18	1.56	25.66	1.29
Metric	1000sqft	1000sqft	Room	1000sqft	Dwelling Unit	Dwelling Unit	1000sqft
Size	45.00	36.00	50.00	8.00	25.00	975.00	56.00
Land Uses	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Apartments Low Rise	Apartments Mid Rise	Regional Shopping Center

# 1.2 Other Project Characteristics

33	2028		9000
Precipitation Freq (Days)	Operational Year		N2O Intensity 0.0 (Ib/MWhr)
2.2			0.029
Wind Speed (m/s)		a Edison	CH4 Intensity (Ib/MWhr)
Urban	თ	Southern California Edison	702.44
Urbanization	Climate Zone	Utility Company	CO2 Intensity (Ib/MWhr)

# 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

New Value	0.00	0.00	0.00	0.00	10.00	10.00	10.00	10.00	10.00	10.00	6.17	3.87	1.39	79.82
Default Value	1,019.20	1,019.20	1.25	48.75	14.70	14.70	14.70	14.70	14.70	14.70	7.16	6.39	2.46	158.37
Column Name	FireplaceWoodMass	FireplaceWoodMass	NumberWood	NumberWood	WorkerTripLength	WorkerTripLength	WorkerTripLength	WorkerTripLength	WorkerTripLength	WorkerTripLength	ST_TR	ST_TR	ST_TR	ST_TR
Täble:Name	tblFireplaces	tblFireplaces	tblFireplaces	tblFireplaces	tblTripsAndVMT	tblTripsAndVMT	tblTripsAndVMT	tbITripsAndVMT	tbiTripsAndVMT	tblTripsAndVMT	tblVehideTrips	tblVehideTrips	tblVehicleTrips	tblVehicleTrips

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bit Vehicle Trips         94.46         55.99           bit Vehicle Trips         91.TR         49.97         10.74           bit Vehicle Trips         91.TR         6.07         6.16           bit Vehicle Trips         51.TR         6.76         6.16           bit Vehicle Trips         51.TR         1.05         0.69           bit Vehicle Trips         50.TR         7.216         5.765           bit Vehicle Trips         50.TR         5.32         4.13           bit Vehicle Trips         50.TR         5.224         6.41           bit Vehicle Trips         WD_TR         6.53         4.13           bit Vehicle Trips         WD_TR         6.27         6.41           bit Vehicle Trips         WD_TR         42.75         0.00           bit Vehicle Trips         WD_TR         42.70         9.43           bit Vehicle Trips         WD_TR         42.70         9.43           bit Vehicle Trips         WD_TR         42.70         0.00           bit Vehicle Trips         WD_TR         42.70         0.00           bit Vehicle Trips         WD_TR         42.70         0.00           bit Vehicle Trips         WD_TR         42.70         0.00 </th <th>tblVehicleTrips</th> <th>ST_TR</th> <th>8.19</th> <th>3.75</th>	tblVehicleTrips	ST_TR	8.19	3.75
SU_TR         49,97           SU_TR         6,07           SU_TR         6,07           SU_TR         5,86           SU_TR         1,05           SU_TR         5,96           SU_TR         72,16           SU_TR         25,24           WD_TR         11,03           WD_TR         11,03           WD_TR         42,76           NUMDerCatalytic         48,75           NumberNoncatalytic         48,75           NumberNoncatalytic         48,75           NumberNoncatalytic         1,26           NumberNoncatalytic         48,75           NumberNoncatalytic         25,00           WoodstoveDay/ear         25,00           WoodstoveDay/ear         25,00           WoodstoveDay/ear         25,00           WoodstoveWoodMass         999.60	VehicleTrips	ST_TR	94.36	63.99
SU_TR       6.07         SU_TR       5.86         SU_TR       5.86         SU_TR       1.05         SU_TR       1.05         SU_TR       72.16         SU_TR       72.16         SU_TR       6.59         WD_TR       6.59         WD_TR       6.65         WD_TR       8.17         WD_TR       42.70         NumberCatalytic       42.70         NumberCatalytic       42.70         NumberCatalytic       48.75         NumberCatalytic       48.75         NumberCatalytic       48.75         NumberCatalytic       48.75         NumberCatalytic       48.75         NumberCatalytic       48.75         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDaySear       25.00         WoodstoveDaySear       25.00         WoodstoveDaySear       25.00         WoodstoveDaySear       25.00         Wood	NehicleTrips	ST_TR	49.97	10.74
SU_TR       5.86         SU_TR       1.05         SU_TR       1.05         SU_TR       5.96         SU_TR       5.96         SU_TR       25.24         WD_TR       6.65         WD_TR       6.65         WD_TR       8.17         WD_TR       8.17         WD_TR       42.70         NumberCatalytic       1.25         NumberCatalytic       48.75         NumberInnoratalytic       48.75         NumberDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveWoodMass       999.60         WoodstoveWoodMass       999.60	olVehicleTrips	SU_TR	6.07	6.16
SU_TR       1.05         SU_TR       13184         SU_TR       5.96         SU_TR       72.16         SU_TR       72.16         SU_TR       72.16         WD_TR       6.59         WD_TR       11.03         WD_TR       83.95         WD_TR       42.70         WD_TR       42.70         NumberCatalytic       1.25         NumberCatalytic       48.75         NumberCatalytic       48.75         NumberNoncatalytic       48.75         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveWoodMass       999.60         WoodstoveWoodMass       999.60	ylVehicleTrips	SU_TR	5.86	4.18
SU_TR       5.95         SU_TR       5.95         SU_TR       5.95         SU_TR       25.24         WD_TR       6.59         WD_TR       6.65         WD_TR       11.03         WD_TR       81.7         WD_TR       89.95         WD_TR       42.70         NumberCatalytic       1.25         NumberNoncatalytic       1.25         NumberNoncatalytic       48.75         NumberNoncatalytic       25.00         WoodstoveDayYear       25.00         WoodstoveDayYear       25.00         WoodstoveWoodMass       999.60	₀lVehicleTrips	SU_TR	1.05	69.0
SU_TR         72.16           SU_TR         72.16           WD_TR         6.59           WD_TR         6.65           WD_TR         11.03           WD_TR         8.17           WD_TR         82.35           WD_TR         42.70           NumberCatalytic         42.70           NumberNoncatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         25.00           WoodstoveDayYear         25.00           WoodstoveDayYear         25.00           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60	olVehicleTrips	SU_TR	131.84	78.27
SU_TR         72.16           SU_TR         6.59           WD_TR         6.65           WD_TR         11.03           WD_TR         127.15           WD_TR         89.95           WD_TR         42.70           NumberCatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         25.00           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	olVehicleTrips	SU_TR	5.95	3.20
SU_TR         25.24           WD_TR         6.59           WD_TR         6.65           WD_TR         11.03           WD_TR         81.7           WD_TR         89.95           WD_TR         42.70           NumberCatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         1.25           NumberNoncatalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	olVehicleTrips	SU_TR	72.16	57.65
WD_TR         6.59           WD_TR         11.03           WD_TR         127.15           WD_TR         81.7           WD_TR         82.95           WD_TR         42.70           NumberCatalytic         1.25           NumberNoncatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         25.00           WoodstoveDayYear         25.00           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	olVehicleTrips	SU_TR	25.24	6.39
WD_TR         6.65           WD_TR         11.03           WD_TR         8.17           WD_TR         89.95           WD_TR         42.70           NumberCatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         25.00           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	olVehicleTrips	WD_TR	6.59	5.83
WD_TR         11.03           WD_TR         8.17           WD_TR         8.17           WD_TR         89.95           WD_TR         42.70           NumberCatalytic         1.25           NumberNoncatalytic         48.75           NumberNoncatalytic         25.00           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	blVehicleTrips	WD_TR	6.65	4.13
WD_TR         8.17           WD_TR         8.17           WD_TR         89.95           NumberCatalytic         42.70           NumberNoncatalytic         48.75           NumberNoncatalytic         48.75           NumberNoncatalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	tblVehicleTrips	WD_TR	11.03	6.41
WD_TR         8.17           WD_TR         89.95           WD_TR         42.70           NumberCatalytic         1.25           NumberNoncatalytic         48.75           NumberIntoratalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	tblVehicleTrips	WD_TR	127.15	65.80
WD_TR         89.95           WumberCatalytic         1.25           NumberNoncatalytic         48.75           NumberNoncatalytic         1.25           NumberNoncatalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	blVehicleTrips	WD_TR	8.17	3.84
WD_TR         42.70           NumberCatalytic         1.25           NumberNoncatalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	blVehicleTrips	WD_TR	89.95	62.64
NumberCatalytic         48.75           NumberNoncatalytic         1.25           NumberNoncatalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	blVehicleTrips	WD_TR	42.70	9.43
NumberCatalytic 48.75  NumberNoncatalytic 1.25  NumberNoncatalytic 48.75  WoodstoveDayYear 25.00  WoodstoveWoodMass 999.60  WoodstoveWoodMass 999.60	blWoodstoves	NumberCatalytic	1.25	0.00
NumberNoncatalytic         1.25           NumberNoncatalytic         48.75           WoodstoveDayYear         25.00           WoodstoveWoodMass         999.60           WoodstoveWoodMass         999.60	blWoodstoves	NumberCatalytic	48.75	0.00
NumberNoncatalytic 48.75  WoodstoveDayYear 25.00  WoodstoveWoodMass 999.60  WoodstoveWoodMass 999.60	blWoodstoves	NumberNoncatalytic	1.25	0.00
WoodstoveDayYear     25.00       WoodstoveWoodMass     999.60       WoodstoveWoodMass     999.60	tblWoodstoves	NumberNoncatalytic	48.75	0.00
WoodstoveDayYear 25.00 WoodstoveWoodMass 999.60 WoodstoveWoodMass 999.60	blWoodstoves	WoodstoveDayYear	25.00	0.00
WoodstoveWoodMass 999.60 WoodstoveWoodMass 999.60	olWoodstoves	WoodstoveDayYear	25.00	0.00
WoodstoveWoodMass 999.60	/Woodstoves	WoodstoveWoodMass	09.666	0.00
	Woodstoves	WoodstoveWoodMass	09.666	0.00

### 2.0 Emissions Summary

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2.1 Overall Construction

### **Unmitigated Construction**

CO2e		0.0000 212.2661	1,421.692	1,345.229 1	44.8311	1,421.692 5
NZO		0.0000	0.0000	0.0000	0.0000	0.0000
CH4	MT/yr	0.0600	0.1215	0.1115	7.8300e- 003	0.1215
Total CO2	EW.	210.7654	1,418.655 4	1,342.441 1,342.441 2 2	44.6355	1,418.655 4
Bio- CO2 NBio- CO2 Total CO2 CH4		210.7654 210.7654	1,418.655	1,342.441	44.6355	1,418.655 4
Bio-CO2		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.2542	0.3621	0.3195	0.0118	0.3621
Exhaust PM2.5		0.0754	0.1103	0.0912	5.9700e- 003	0.1103
Fugitive PM2.5		0.1788	0.2518	0.2283	5.8700e- 003	0.2518
PM10 Total		0.4958	1.0683	0.9468	0.0285	1.0683
Exhaust PM10	tons/yr	0.0817	0.1175	0.0971	6.3900e- 003	0.1175
Fugitive PM10	ton	0.4141	0.9509	0.8497	0.0221	6056.0
802		0.1704 1.8234 1.1577 2.3800e-	0.0155	0.0147	5.0000e- C	0.0155
တ		1.1577	5.1546	4.7678	0.2557	5.1546
NOX		1.8234	4.0240	3.2850	0.1313	4.0240
ROG		0.1704	0.5865	0.5190	4.1592	4.1592
	Year	2021	2022	2023	2024	Maximum

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2.1 Overall Construction Mitigated Construction

C02e		212.2658	1,421.692	1,345.228	44.8311	1,421.692
CH4 N2O		0.0000	0.0000	0.0000	0.000.0	0.0000
	MT/yr	0.0600	0.1215	0.1115	7.8300e- 003	0.1215
Total CO2	IW.	210.7651	1,418.655 0	1,342.440 1,342.440 9 9	44.6354	1,418.655 0
NBio-CO2		0.0000 210.7651 210.7651	1,418.655 0	1,342.440 9	44.6354	1,418.655 1,418.655 0 0
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.2542	0.3621	0.3195	0.0118	0.3621
Exhaust PM2.5		0.0754	0.1103	0.0912	5.9700e- 003	0.1103
Fugitive PM2.5		0.1788	0.2518	0.2283	5.8700e- 003	0.2518
PIM10 Total		0.4958	1.0683	0.9468	0.0285	1.0683
Exhaust PM10	tons/yr	0.0817	0.1175	0.0971	6.3900e- 003	0.1175
Fugitive PM10		0.4141	0.9509	0.8497	0.0221	0.9509
<b>S</b> 02		2.3800e- 003	0.0155	0.0147	5.0000e- 004	0.0155
ဝ၁		1.1577 2.3800e- 003		4.7678	0.2557	5.1546
NOX		1.8234	4.0240	3.2850	0.1313	4.0240
ROG		0.1704	0.5865	0.5190	4.1592	4.1592
	Year	2021	2022	2023	2024	Maximum

CO2e	0.00									
N20	0.00									
СН	0.00	larter)								
Total CO2	0.00	OX (tons/qu								
NBio-CO2	0.00	ed ROG + N	1.4091	1.3329	1.1499	1.1457	1.1415	1.0278	0.9868	0.9831
Bio- CO2 NBio-CO2 Total CO2	0.00	Maximum Mitigated ROG + NOX (tons/quarter)				,				
PM2.5 Total	0.00	Maxir								
Exhaust PM2.5	0.00	quarter)								
Fugitive PM2.5	0.00	Maximum Unmitigated ROG + NOX (tons/quarter)								
PM10 Total	0.00	ited ROG +	1.4091	1.3329	1.1499	1.1457	1.1415	1.0278	0.9868	0.9831
Exhaust PM10	0.00	ım Uninitige								:
Fugitive Exhaust PM10 PM10	0.00	Maximu		Š						
S02	0.00	End Date	11-30-2021	2-28-2022	5-31-2022	8-31-2022	11-30-2022	2-28-2023	5-31-2023	8-31-2023
ဝ၁	0.00	End	11-30	2-28	5-31	8-31	11-30	2-28	5-31	8-31
XON V	0.00	Start Date	9-1-2021	12-1-2021	3-1-2022	6-1-2022	9-1-2022	12-1-2022	3-1-2023	6-1-2023
Rog	0.00	Sta	9-	12-	<u>ڄ</u>	9	9-1	12-	<u>£</u>	6-1
	Percent Reduction	Quarter	-	2	8	4	5	9	7	8

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0.9798	2.8757	1.6188	2.8757
0.9798	2.8757	1.6188	2.8757
11-30-2023	2-29-2024	5-31-2024	Highest
9-1-2023	12-1-2023	3-1-2024	
6	10	11	

### 2.2 Overall Operational

### **Unmitigated Operational**

1.000000	al Tipo, School		1.	, -	_	_	
CO2e		222.5835	3,913.283 3	7,629.016 2	514.8354	683.7567	12,963.47 51
N2O.		3.7400e- 003	0.0468	0.0000	0.0000	0.0755	0.1260
O. 4	5	0.0201	0.1303	0.3407	12.2811	3.0183	15.7904
Total CO2	MT/yr	220.9670	3,896.073	7,620.498 6	207.8079	585.8052	12,531.15 19
Bio- CO2 NBio- CO2 Total CO2		220.9670 220.9670	3,896.073 3,896.073	7,620.498	0.000.0	556.6420	12,294.18 07
Bio- CO2		0.0000	0.000.0	0.0000	207.8079	29.1632	236.9712
PM2.5 Total		0.0714	0.0966	2.1434	0.000.0	0.0000	2.3114
Exhaust PM2.5		0.0714	0.0966	0.0539	0.0000	0.0000	0.2219
Fugitive PM2.5			 	2.0895	             	         	2.0895
PM10 Total		0.0714	0.0966	7.8559	0.0000	0.0000	8.0240
Exhaust PM10	ilyr	0.0714	9960.0	0.0580	0.0000	0.0000	0.2260
Fugitive PM10	fons/yr			7.7979		   	7.7979
S02		1.670 <b>0</b> e- 003	7.6200e- 003	0.0821			0.0914
<b>9</b>		0.2950 10.3804 1.6700e-	0.7770	19.1834		<b>;</b>	30.3407 0.0914
×ON			1.2312	7.9962			9.5223
ROG		5.1437	0.1398	1.5857			6.8692
	Category	Area	Energy	Mobile	Waste	Water	Total

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2.2 Overall Operational Mitigated Operational

CO2e		222.5835	3,913.283	7,629.016	514.8354	683.7567	12,963.47 51
NZO		3.7400e- 003	0.0468	0.0000	0.0000	0.0755	0.1260
CH4	MT/yr	0.0201	0.1303	0.3407	12.2811	3.0183	15.7904
Total CO2	IM	220.9670	3,896.073 3,896.073 2 2	7,620.498 6	207.8079	585.8052	12,531.15 19
Bio- CO2 NBio- CO2 Total CO2		220.9670	3,896.073 2	7,620.498 7,620.498 6 6	0.0000	556.6420	12,294.18 07
Bio-CO2		0.0000	0.0000	0.0000	207.8079	29.1632	236.9712
PM2.5 Total		0.0714	0.0966	2.1434	0.000.0	0.0000	2.3114
Exhaust PM2.5		0.0714	9960.0	0.0539	0.000.0	0.0000	0.2219
Fugitive PM2.5				2.0895			2.0895
PM10 Total		0.0714	9960.0	7.8559	0.0000	0.0000	8.0240
Exhaust PM10	síyr	0.0714	0.0966	0.0580	0.0000	0.0000	0.2260
Fugitive PM10	tons/yr			7.7979			7.7979
S02		1.6700e- 003	7.6200e- 003	0.0821			0.0914
ဝ၁		0.2950 10.3804	0.7770	19.1834			30.3407
XON		0.2950	1.2312	7.9962			9.5223
ROG		5.1437	0.1398	1.5857			6.8692
	Category	Area	Energy	Mobile	Waste	Water	Total

CO2e

N20

CH4

Bio- CO2 NBio-CO2 Total CO2

PM2.5 Total

Exhaust PM2.5

Fugitive PM2.5

PM10 Total

Exhaust PM10

Fugitive PM10

802

တ

NOX

ROG

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

0.00

Percent Reduction

### 3.0 Construction Detail

### **Construction Phase**

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Phase Vumber	Phase Name	Phase Type	Start Date	End Date Num Days Num Days Week	Num Days Week	Num Days	Phase Description
	Demolition			10/12/2021	5	30	
· · · ·	Site Preparation	Site Preparation		11/9/2021	5	20	
	Grading	Grading	11/10/2021	1/11/2022	5	45	
	Building Construction	Building Construction		12/12/2023	5	200	
	Paving	Paving	8	1/30/2024	5	35	
	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

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

**Trips and VMT** 

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Phase Name	Phase Name Offroad Equipment Worker Trip Count Number	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Hauling Trip Worker Trip Vendor Trip Hauling Trip Worker Vehicle Vendor Hauling Number Length Length Class Vehicle Class	Vendor Vehide Class	Hauling Vehicle Class
Demolition	9	15.00	00.00	458.00	10.00	06.9	다. 다. 단.	20.00 LD_Mix	HDT_Mix	ННОТ
Site Preparation		18.00	00.00	0	10.00	6.90		20.00 LD_Mix	HDT_Mix	HHDT
Grading	80	20.00	0.00	0.00	10.00	6.90		×	HDT_Mix	HHDT
Building Construction	0	801.00	143.00	0.00	10.00	9.90		20.00 LD_Mix	HDT_Mix	HHDT
Paving	9	15.00	0.00	0.00	10.00	06.9	! ! ! !	20.00 LD_Mix	HDT_Mix	HHDT
Architectural Coating		160.00	00.0	0.00	10.00	96.90		20.00 LD_Mix	HDT_Mix	HHDT

# 3.1 Mitigation Measures Construction

3.2 Demolition - 2021

C02e		0.0000	51.3601	51.3601
N2O CO2e		0.0000	0.0000	0.000
Bio- CO2 NBio- CO2 Total CO2 CH4	, V	0.0000 0.0000 0.0000 0.0000	51.0012 0.0144 0.0000	0.0144
Total CO2	TW	0.0000	51.0012	51.0012
NBio-CO2		0.0000	51.0012	51.0012
Bio- CO2		0.0000	0.0000	0.000
PM2:5 Total		0.0000 7.5100e-	0.0216	0.0291
Exhaust PM2.5		0.000.0	0.0216	0.0216
Fugitive PM2.5		0.0000 0.0496 7.5100e-	             	0.0729 7.5100e- 003
PM10 Total		0.0496	0.0233	0.0729
Exhaust PM10	ıkys	0.000.0	0.0233	0.0233
Fugitive PM10	tons/yr	0.0496		0.0496
S02			5.8000e- 004	5.8000e- 004
8			0.3235 5.8000e- 004	0.3235
NOX			0.4716	0.0475 0.4716 0.3235 5.8000e-
ROG			0.0475	0.0475
	Category	Fugitive Dust	Off-Road	Total

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3.2 Demolition - 2021

## Unmitigated Construction Off-Site

C02e		17.4869	0.0000	1.5293	19.0161
NZO		0.0000	0.0000	0.0000	0.0000
СН4	MTlyr	1.2100 <del>c.</del> 003	0.0000	5.0000e- 005	1.2600e- 003
Total CO2	_MT	17.4566	0.0000	1.5281	18.9847
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000 17.4566 17.4566 1.2100e-	0.000.0	1.5281	18.9847
Bio-co2		0.0000	0.0000	0.0000	0.000.0
PM2.5 Total		1.2600e- ( 003	0.0000	4.6000e- 004	1.7200e- 003
Exhaust PM2.5		1,9000e- 4,1300e- 1,0800e- 1,8000e- 004 004	0.0000	1.0000e- 005	1.9000e- 004
Fugitive PM2.5		1.0800e- 003	0.0000	- 4.5000e- 004	1.5300e- 003
PM10 Total		4.1300e- 003	0.000.0	1.6900 <del>e-</del> 003	5.8200e- 003
Exhaust PM10	tons/yr	1.9000e- 004	0.000.0	1.0000e- 005	2.0000e- 004
Fugitive PM10	ton	3.9400e- 003	0.0000	1.6800 <del>c</del> 003	5.6200e- 003
SO2		1.8000e- 004	0.000.0	e- 2.0000e- 005	2.0000e- 004
NOX CO		0.0148	0.0000	0e- 6.0900e- 2 1 003	0.0209 2.0000e- 004
NOX		1.9300e- 0.0634 0.0148 1.8000e- 003 004	0.00	300 <del>6-</del> 104	629
RoG		1.9300e- 003	0.0000	7.2000e- 004	2.6500e- 0.0 003
	Category	Hauling	Vendor	Worker	Fotal

C02e		0.0000	51.3600	51.3600
NZO		0.0000	0.0000	0.0000
CH4	МТ/уг	0.0000	0.0144	0.0144
Total CO2	MT	0.000.0	51.0011 51.0011 0.0144	51.0011
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000 0.0000 0.0000 0.0000 0.0000	51.0011	0.0000 51.0011 51.0011 0.0144
Bio- CO2		0.0000	0.0000	0.0000
PM2.5 Fotal		7.5100 <del>c.</del> 003	0.0216	0.0291
Exhaust PM2.5		0.0496 7.5100e- 0.0000 7.5100e- 003 003	0.0216	0.0216
Fugitive PM2.5		7.5100e- 003		7.5100e- 0. 003
PM10 Total		0.0496	0.0233	0.0729
Exhaust PM10	tons/yr	0.0000	0.0233	0.0233
Fugitive PM10	щ	0.0496		0.0496
S02			5.8000e- 004	5.8000e- 0.0496 004
00			0.3235	0.3235
NOx CO.			0.4716 0.3235 5.8000e- 004	0.0475 0.4716
ROG			0.0475	0.0475
	Category	Fugitive Dust	Off-Road	Total

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3.2 Demolition - 2021

### Mitigated Construction Off-Site

CO2e		17.4869	0.0000	1.5293	19.0161
N2O		0.0000	0.0000	0.0000	0.000
CH4	ريد م	1.2100e- 003	0.0000	5.0000e- 005	1.2600e- 003
Total CO2	WT/V	17.4566 1.2100e- 003	0.0000	1.5281	18.9847
Bio- CO2 NBio- CO2 Total CO2 CH4		17.4566	0.0000	1.5281	18.9847
Bio- CO2		0000	0.0000	0.0000	0.0000
PM2.5. Total		1.2600e- 0 003	0.0000	4.6000e- 004	1.7200e- 003
Exhaust PM2.5		1.0800e- 1.8000e- 003 004	0.0000	1.0000e- 005	1.9000e- 004
Fugitive PM2.5		1.0800e- 003	0.0000	4.5000e 004	1.5300e- 003
PM10 Total		4.1300e- 003	0.0000	1.6900e- 003	5.8200e- 003
Exhaust PM10	síyr	1.9000e- 4.1300e- 004 003	0.0000	1.0000e- 005	2.0000e- 004
Fugitive PM10	tons/yr	9400e- 003	0.000.0	1.6800e- 003	5.6200e- 003
S02		1.8000e- 004	0.000.0	)e- 2.0000e- 005	2.0000e- 004
ROG NOx CO		0.0148	0.000	7.2000e- 15.3000e- 16.0900e- 004 004 003	0.0209 2.0000e- 004
XON V		0.0634	0.0000	5.3000e- 004	0.0639
ROG		1.9300e- 003	0.0000	7.2000e- 004	2.6500e- 003
	Category	Hauling	Vendor	Worker	Total

### 3.3 Site Preparation - 2021

CO2e		0.0000	33.7061	33.7061
NZO		0.0000	0.0000	0.0000
CH4	Į.	0.0000	0.0108	0.0108
Total CO2	MT/yr	0.0000	33.4357 0.0108	33.4357
NBio-CO2		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	33.4357	0.0000 33.4357
Bio-CO2		0.000.0	0.0000	0.0000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		0.0993	0.0188	0.1181
		0.0000	0.0188	0.0188
Fugitive PM2.5		0.0993	   	0.0993
PM10 Total		0.1807	0.0204	0.2011
grifive Exhaust PM10 Fugitive Exhaust M10 PM2.5 PM2.5	tons/yr	0.0000	0.0204	0.0204
Fugitive PM10	(ou	0.1807		0.1807
SO2 Fug			3.8000e- 004	0.0389 0.4050 0.2115 3.8000e-
<b>0</b> 0			0.2115	0.2115
ROG NOX CO			0.4050	0.4050
ROG			0.0389 0.4050 0.2115 3.8000e-	0.0389
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

			_		
CO2e		0.0000	0.0000	1.2234	1.2234
CH4 N20		0.000	0.0000	0.0000	0.0000
	ίγι	0.000.0	0.0000	4.0000e- 005	5 4.0000e- 005
Total CO2	MT/yr	0.0000	0.0000	1.2225	1.2225
NBio-CO2		0.0000	0.0000	1.2225	1.2225
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	0.0000	0.000
PM2.5 Total		0.000.0	0.000.0	3.7000e- 004	3.7000e- 004
Exhaust PM2.5		0.0000 0.0000	0.0000	1.0000e- 005	1.0000e- 005
Fugitive PM2.5			0.000.0	3.6000e- 004	000e- 004
PM10 Total		0.000 0.0000	0.0000	1.3500e- 3. 003	1.3500 003
Exhaust PM10	síyr	0.000.0	0.000.0	1.0000e- 005	1.0000e- 005
Fugitive PM10	tons/yr	0.0000	0.0000	1.3400e- 003	1.3400e- 003
S02		0.000.0	0.0000	)e- 1.0000e- 1. 005	1.0000e- 005
.co soz		0.000.0	0.0000	4.8700e- 003	4.8700e- 003
XON		0.0000 0.0000 0.0000	0.0000 0.0000	5.8000e- 4.3000e- 4.8700e- 004 003	5.8000e- 4.3000e- 4.8700e- 1.0000e- 004 004 005
ROG		0.000	0.0000	5.8000e- 004	5.8000e- 004
	Category	Hauling	Vendor	Worker	Total

Fugitive	0.1807 0.0000 0.1807 0.0993 0.0000 0.0993 0.0000 0.0000	0.0204 0.0204 0.0188 0.0188 0.0000 33.4357 33.4357 0.0108 0.0000 33.7060	- 0.1807 0.0204 0.2011 0.0993 0.0188 0.1181 0.0000 33.4357 33.4357 0.0108 0.0000 33.7060
Total PM2.5	0 0.1807 0.0993 (	0.0204	0.2011 0.0993
2 4 §	0.1807 0.0000		0.1807
O3 XO2		0.0389 0.4050 0.2115 3.8000e-	0.4050 0.2115 3.8000e-
ROG	Fugitive Dust	Off-Road 0.0389	Total 0.0389

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3.3 Site Preparation - 2021
Mitigated Construction Off-Site

C02e		0.0000	0.0000	1.2234	1.2234
NZO		0.0000	0.0000	0.0000	0.0000
CH4	<b>3</b> 6	0.000.0	0.0000	4.0000e- 005	4.0000e- 005
Total CO2	IM	0.0000	0.0000	1.2225	1.2225
NBio- CO2		0.000.0	0.000.0	1.2225	1.2225
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4.		0.000.0	0.0000	0.0000	0.0000
PM2.5 Total		0.000.0	0.000.0	3.7000e- 004	3.7000e- 004
Exhaust PM2.5		0.0000	0.0000	1.0000e- 005	1.0000e- 005
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.000.0	3.6000e- 004	3000e- 004
PM10 Total		0.0000	0.0000	1.3500e- 003	1.3500e- 3.6 003
Exhaust PM10	tons <i>k</i> yr	00000 0.0000 0.0000.	0.0000	1.0000e- 005	1.0000e- 005
Fugitive PM10	ton		0.0000	1.3400 <del>e-</del> 003	1.3400e- 003
S02		0.000.0	0.000.0	. 1.0000 <del>e-</del> 1.3 005	1.0000e- 005
တ		0.0000	0.0000	4.8700e- 003	4.8700e- 003
ROG NOX CO SOZ		0.0000 0.0000 0.0000	0.0000 0.0000	5.8000e- 4.3000e- 4.8700e- 004 004 003	5.8000e- 4.3000e- 4.8700e- 1.0000e- 004 003
ROG		0.0000	0.0000	5.8000e- 004	5.8000e- 004
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2021

Partuses	Filosopo a	1	,	T
CO2e		0.0000	104.3776	104.3776
OZN		0.0000	0.0000 104.3776	0.0000 104.3776
_ CH4	MTAyr	0.0000	0.0335	0.0335
Total CO2	TM.	0.000.0	103.5405	103.5405
NBio-CO2		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	103.5405 103.5405	103.5405 103.5405 0.0335
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.000.0	0.0000
		0.0693	0.0347	0.1040
Fugitive Exhaust PM2.5 PM2.5 Total		0.0000	0.0347	0.0347
Fugitive PM2.5		0.0693	           	0.0693
		0.1741	0.0377	0.2118
Exhaust PM10	tons/yr	0.1741 0.0000 0.1741 0.0693	0.0377	0.0377
Fugitive PM10	lon			0.1741
S02			1.1800e- 003	1.1800e- 003
. co			0.5867	0.5867
ROG NOX CO SO2 Fugitive Exhaust PM10 PM10 Total			0.8816	0.8816 0.5867 1.1800e-
ROG			0.0796 0.8816 0.5867 1.1800e-	9620.0
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021 Unmitigated Construction Off-Site

V. 1874	Part Service	r	:		
COZe		0.0000	0.0000	2.5828	2.5828
NZO		0.0000	0.0000	0.0000	0.0000
CH4	J.G.	0.0000	0.0000	8.0000e- 005	8.0000e- 005
Total CO2	M .	0.000 0.0000 0.0000	0.0000	2.5808	2.5808
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000	0.0000	2.5808	2.5808
Bio-CO2		0.000.0	0.0000	0.0000	0.0000
PM2.5 Total		0.000.0	0.0000	7.8000e- 004	7.8000e- 004
Exhaust PM2.5		0.0000 0.0000 0.0000	0.000	0000e- 005	2.0000e- 005
Fugitive PM2.5		0.0000	0.0000	7.5000e- 2. 004	7.5000e- 004
PM10 Total		0.0000	0.0000	3600e- 003	1600e- 003
Exhaust PM10	sityr	0.0000	0.0000	2.0000e- 005	2.0000e- 005
Fugitive PM10	tons/y	0.000.0	0.0000	300e- 303	2.8300e- 003
205		0.0000	0.0000	3 3.0000e- 2.8 005 (	3.0000e- 005
NOX CO		0.0000	0.000	0.010	0.0103
NOX		0.0000 0.0000 0.0000	0.0000	1.2200e- 9.0000e- 003 004	9.0000e- 004
ROG		0.0000	0.0000	1.2200e- 003	1.2200e- 903 004
	Category	Hauling	Vendor	Worker	Total

	Control of			<del>,</del>
C02e		0.0000	104.3775	104.3775
NZO		0.0000	0.0000	0.0000
CH4	s.	0.0000	0.0335	0.0335 0.0000 104.3775
Total CO2	MT/yr	0.000.0	103.5403	103.5403
Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e		0.000.0	0.0000 103.5403 103.5403 0.0335 0.0000 104.3775	0.0000 103.5403 103.5403
Вю- со2		0.000.0	0.0000	0.0000
PM2.5 E Total		690.0	0.0347	0.1040
Exhaust PM2.5		1741 0.0000 0.1741 0.0693 0.0000 0.0693 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0347	0.0347
Fugitive PM2.5		0.0693		0.0693
PM10 Total		0.1741	0.0377	0.2118
Exhaust PM10	síyr	0.0000	0.0377	0.0377
Fugitive :PM10	tons/yr	0.1741		0.1741
S02			1.1800e- 003	1.1800e- 003
Nox co			0.5867	0.5867
			0.8816	0.8816 0.5867
ROG			0.0796	0.0796
	Category	Fugitive Dust	Off-Road	Total

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

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3.4 Grading - 2021
Mitigated Construction Off-Site

					-
N2O C02e		0.0000	0.0000	2.5828	2.5828
1000		0.0000	0.0000	0.0000	0.000
CH4	λλε	0.0000 0.0000	0.0000	8.0000e- 005	8.0000e- 005
Total CO2	EW.	0.000	0.0000	2.5808	2.5808
Bio-CO2 NBio-CO2 Total CO2 CH4.		0.0000 0.0000	0.0000	2.5808	2.5808
		0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.000.0	7.8000e- 004	e- 7.8000e- 004
Exhaust PM2.5		0.0000	0.000.0	2.0000e- 005	2.0000 005
Fugitive PM2.5		0.000	0.0000	7.5000e- 004	7.5000e- 004
PM10 Total		0.0000	0.0000	2.8600 <del>c.</del> 7. 003	2.8600e- 003
Exhaust PM10	tons/yr	0.0000 0.0000	0.0000	2.0000e- 005	2.0000
Fugitive PM10	ton	0.0000	0.0000	2.8300e- 003	2.8300e- 003
S02		0.0000	0.0000	33 3.0000e- 2 005	0.0103 3.0000e- 005
00		0.0000	0.00	0.01	0.0103
NOx		0.0000 0.0000 0.0000	0.000 0.0000	1.2200e- 9.0000e- 003 004	1.2200e- 003 004
ROG		0.0000	0.0000	1.2200e- 003	1.2200e- 003
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2022

CO2e		0.0000	19.2414	19.2414
N20		0.0000	0.0000	0.0000
CH4	¥	0.0000 0.0000	6.1700e 0.0	6.1700e- 003
Total CO2	TM.	0.0000	19.0871	19.0871
NBio- CO2		0.0000	19.0871 19.0871	19.0871 19.0871 6.1700e-
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		0.000.0	0.000.0	0.0000
it PM2.5 Total		0.0180	5.2600e-	0.0233
Fugitive Exhaust PM2.5 PM2.5		0.0000	5.2600e- 5.2600e- 003 003	5.2600e- 0 003
Fugitive PM2.5		0.0000 0.0807 0.0180 0.0000	         	0.0180
PM10 Total		0.0807	5.7200e- 003	0.0865
Exhaust PM10	síyr	0.000.0	5.7200e- 003	5.7200e- 0 003
Fugitive PM10	tons/v	0.0807		0.0807
S02			2.2000e- 004	0.1017 2.2000e- 004
ဝ			0.1017	0.1017
NOX			0.1360	0.1360
ROG			0.0127 0.1360 0.1017 2.2000e-	0.0127
	Category	Fugitive Dust	Off-Road	Total

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3.4 Grading - 2022
Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	0.4590	0.4590
NZO		0.0000	0.0000	0.0000	0.0000
CH4	WIT/yr	0.000	0.0000	1.0000e- 005	1.0000e- 005
Total CO2	<u>M</u>	0.0000 0.0000	0.0000	0.4587	0.4587
Bio-CO2 NBio-CO2 Total CO2		0.000.0	0.0000	0.4587	0.4587
Bio-CO2		0.000.0	0.000.0	0.000	0.000
PM2.5 Total		0.000.0	0.0000	1.4000e- 004	1.4000e- 004
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0000	0.0000	0.0000
PM10 Fugitive Total PM2.5		0.000.0	0.000.0	1.4000e- 004	1.4000e- 0 004
10.200		0.0000	0.0000	5.3000e- 004	0 5.3000e- 004
Exhaust PM10	s/yr	0.0000	0.0000	0.0000	0.0000
Fugitive PM10	tons/yr	0.0000	0.0000	5.2000e- 004	5.2000e- 004
S02		0.0000	0.0000	1.0000e- 005	1.0000e- 005
00		0.0000	0.0000	1.7400e- 003	1.7400e- 003
NOx CO SO2		0.0000 0.0000 0.0000	0.0000 0.0000	2.1000e- 1.5000e- 1.7400e- 1.0000e- 004 004 005	2.1000e- 1.5000e- 1.7400e- 1.0000e- 004 005
ROG		0.0000	0.0000	2.1000e- 004	2.1000e- 004
	Category	Hauling	Vendor	Worker	Total

CO2e		0.0000	19.2414	19.2414
N20		0.0000	0.0000	0.0000
CH4	JA,	0.0000	6.1700e- 003	6.1700e- 003
Total CO2	MITAY	0.0000	19.0871	19.0871
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 0.0000 0.0000 0.0000 0.0000	19.0871	0.0000 19.0871
Bio-CO2		0.000.0	0.0000	0.0000
PM2.5 Total		0.0180	5.2600e- 003	0.0233
Exhaust PM2.5		0.0807 0.0000 0.0807 0.0180 0.0000 0.0180	5.2600e- 6 003	5.2600e- 003
Fugitive PM2.5		0.0180		0.0180
PM10 Total		0.0807	- 5.7200e- 003	0.0865
Exhaust PM10	s/yr	0.0000	5.7200e- 003	5.7200e- 003
Fugitive PM10	tons/yr			0.0807
S02			2.2000e- 004	2.2000e- 004
NOx CO			0.1017	0.1017
140000			0.0127 0.1360 0.1017 2.2000e-	0.0127 0.1360 0.1017 2.2000e-
ROG			0.0127	0.0127
	Category	Fugitive Dust	Off-Road	Total

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3.4 Grading - 2022

Mitigated Construction Off-Site

CO2e		0.0000	0.0000	0.4590	0.4590
NZO		0.0000	0.0000	0.0000	0.0000
2H2	MT/yr	0.0000	0.0000	1.0000e- (	1.0000e- 005
Total CO2	<u> </u>	0.0000	0.0000	0.4587	0.4587
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000	0.0000	0.4587	0.4587
Bio- CO2		0.0000	0.0000	0.0000	0.0000
t PM2.5 Total		0.0000	0.0000	1.4000e- 004	1.4000e- 004
Exhaust PM2.5		0.0000 0.0000	0.0000	0000.	0.000
Fugitive Exhaust PM2.5 PM2.5			0.0000	1.4000e- 0 004	1.4000e- 004
PM10 Total		0.0000	0.0000	5.3000e- 004	5.3000e- 004
Exhaust PM10	tons/yr	0.0000 0.0000	0.000	0.0000	0.0000
Fugitive PM10	(Ou	0.0000	0.0000	5.2000e- 004	5.2000e- 004
<b>S</b> 02		0.0000	0.0000	1.0000e- 005	1.0000e- 005
NOX CO SO2		0.0000	0.0000	1.7400e- 003	1.7400e- 003
XON		0.0000 0.0000 0.0000	0.0000 0.0000	2.1000e- 1.5000e- 1.7400e- 1.0000e- 004 004 003 005	2.1000e- 1.5000e- 1.7400e- 1.0000e- 004 003 005
ROG		0.0000	0.0000	2.1000e- 004	2.1000e- 004
	Category	Hauling	Vendor	Worker	Total

3.5 Building Construction - 2022

Yuppetgery	Carrenti	1	1
CO2e		294.8881	0.0000 294.8881
N20		0.0000	0.0000
CH4	n.	0.0702	0.0702
Fotal, CO2	/IMI	293.1324	293.1324
Bio-CO2		0.0000 293.1324 293.1324 0.0702 0.0000 294.8881	0.0000 293.1324 293.1324
Bio-CO2 N		0.0000	0.0000
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4.		0.0963	0.0963
Exhaust PM2.5		0.0963	0.0963
gitive Exhaust PM10 Fugitive Exhaust M10 PM10 Total PM2.5 PM2.5			
PM10 Total		0.1023	0.1023
Exhaust PM10	W.	0.1023 0.1023	0.1023
ğο	tons/yr		
SOS		3.4100e- 003	3.4100e- 003
00		2.0700	2.0700
×ON		1.9754	1.9754 2.0700 3.4100e-
ROG		0.2158 1.9754 2.0700 3.4100e-	0.2158
	Category	Off-Road	Total

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3.5 Building Construction - 2022
Unmitigated Construction Off-Site

CO2e		0.0000	442.6435	664.4604	0.0000 1,107.103
NZO		0.0000	0.0000	0.0000	0.0000
CH <b>4</b>	Ŋ.	0.0000 0.0000 0.0000	0.0264	0.0187	0.0451
Total CO2	MT/yr	0.0000	441.9835	663.9936	1,105.977 1
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 0.0000	441.9835 441.9835	663.9936 663.9936	0.0000 1,105.977 1,105.977 1 1
Bio-CO2		0.0000	0.0000	0.000.0	0.000
PM2.5 B Total		0.0000	0.0359	0.2065	0.2424
Exhaust PM2.5		0.0000	3.0400e- 003	5.7400e- 003	8.7800e- 003
Fugitive PM2.5		0.0000	0.0329	0.2007	0.2336
PM10 Total		0.000.0	0.1171	0.7619	0.8790
Exhaust PM10	tons/yr	0000 0.0000	3.1800e- 003	6.2300 <b>e</b> - 003	9.4100e- 003
Fugitive PM10	ton		0.1140	0.7557	9698'0
205		0.0000	4.5500e- C 003	7.3500e- C 003	0.0119
NOx CO SO2		0.0000	0.4580	2.5233	2.9812 0.0119
×ON		0.0000 0.0000 0.0000	1.6961	0	1.9125
ROG		0.0000	0.0527	0.3051	0.3578
	Category	Hauling	Vendor	Worker	Total

C02e		294.8877	294.8877
N2O		0.0000 293.1321 293.1321 0.0702 0.0000 294.8877	0.0000 294.8877
CH4	, V	0.0702	0.0702
Total CO2	TMI	293.1321	293.1321
Bio-CO2 NBio-CO2 Total CO2 CH4		293.1321	0.0000 293.1321 293.1321 0.0702
Bio- CO2		0.0000	0.0000
PM2.5 Total		0.0963 0.0963	0.0963
Exhaust PM2.5		0.0963	0.0963
Fugitive PM2.5			
PM10 Total		0.1023	0.1023
gitive Exhaust PM10 M10 PM10 Total	ons/yr	0.1023 0.1023	0.1023
Fug	tons		
<b>20</b> 5		3.4100e- 003	3.4100e- 003
		2.0700	2.0700
NOX CO.		1.9754	1.9754 2.0700 3.4100e- 003
ROG		0.2158 1.9754 2.0700	0.2158
	Category	Off-Road	Total

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3.5 Building Construction - 2022
Mitigated Construction Off-Site

CO2e		0.0000	442.6435	664.4604	0.0000 1,107.103
N2O		0.0000	0.0000	0.0000	0.0000
СН4	16,	0.000	0.0264	0.0187	0.0451
Total CO2	JÁ/LIM	0.0000	441.9835	663.9936	1,105.977 1
Bio- CO2   NBio- CO2   Total CO2   CH4		0.0000 0.0000	441.9835 - 441.9835	663.9936 1 663.9936	1,105.977 1,105.977 1
Bio-CO2		0.000.0	0.0000	0.000	0000'0
PM2.5 Total		0.000.0	0.0359	0.2065	0.2424
Exhaust PM2.5		0.000.0	3.0400e- 003	5.7400e- 003	8.7800e- 003
Fugitive PM2.5		0.0000	0.0329	0.2007	0.2336
PM10 Total		0.0000	0.1171	0.7619	0.8790
Exhaust PM10	tońskyr	0.0000	3.1800e- 003	6.2300e- 003	9.4100e- 003
Fugitive PM10	toni	0.0000	3.1140	0.7557	0.8696
S02		0.0000	4.5500e- 0.	2.5233 7.3500e- (	0.0119
03		0.0000	0.4580	2.5233	2.9812
XON		0.0000 0.0000 0.0000	1.6961	0.2164	1.9125
ROG		0.0000	0.0527	0.3051	0.3578
	Category	Hauling	Vendor	Worker	Total

# 3.5 Building Construction - 2023

ROG         NOX         CO         SO2         Fugitive         Exhaust         PML2.5         PML2.5         Total         PML2.5	Tugações est	ang madapa		T
Fugitive Exhaust PM10 Fugitive Exhaust PM2.5 Total FM2.5 PM2.5 Total Total Constyr.	C02e		287.9814	287.9814
Fugitive Exhaust PM10 Fugitive Exhaust PM2.5 Total tons/yr	. N2O		0.0000	0.0000
Fugitive Exhaust PM10 Fugitive Exhaust PM2.5 Total tons/yr	CH4	<b>.</b>	0.0681	0.0681
Fugitive Exhaust PM10 Fugitive Exhaust PM2.5 Total Total PM2.5 PM2.5 Total Total PM2.5 PM2.5 Total Total PM2.5 PM2	Total CO2	TM.	286.2789	286.2789
Fugitive Exhaust PM10 Fugitive Exhaust PM2.5 Total Total PM2.5 PM2.5 Total Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2	NBio-CO2		286.2789	286.2789
Fugitive Exhaust PM10 Fugitive PM2.5 Total PM2.5 tons/yr. 0.0864	Bio-CO2		0.0000	0.0000
Fugitive Exhaust PM10 Fugitive PM2.5 Total PM2.5 tonsiyr. 0.0864	PM2,5 Total		0.0813	0.0813
Fugitive Exhaust PM10 Fugitive PM2.5 Total PM2.5 tons/yr. 0.0864	Exhaust PM2.5		0.0813	0.0813
Fugitive Exhaust PM10 PM10 Total tons/yr.  0.0864 0.0864	ugitive VM2.5			
Fugitive Exhaust PM10 PM10 fons/yr 0.0864	PM10 Total		0.0864	0.0864
Fugitive PM10 tor	Exhaust PM10	Ty.		0.0864
ROG NOX CO SOZ  0.1942 1.7765 2.0061 3.3300e- 0.1942 1.7765 2.0061 3.3300e-	Fugitive PM10			
0.1942 1.7765 2.0061	<b>S</b> 02		3.3300e- 003	3.3300e- 003
0.1942 1.7765	8		2.0061	2.0061
0.1942			1.7765	1.7765
	ROG		0.1942	
Calegory Off-Road				Total

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3.5 Building Construction - 2023
Unmitigated Construction Off-Site

	Hartige.	I		· (0	16
C02e		0.0000	418.5624	624.9466	1,043.50 0
N2O		0.0000	0.0000	0.0000	0.0000 1,043.509 0
	J.	0.0000	0.0228	0.0164	0.0392
Total CO2	MTVF	0.0000 0.0000	417.9930	624.5363	1,042.529 4
NBio-CO2		0.000.0	417.9930 417.9930 0.0228	624.5363 624.5363	0.0000 1,042.529 1,042.529 4 4
Bio- CO2 NBio- CO2 Total CO2 CH4		0.0000	0.0000	0.0000	0.000
PM2.5 Total		0.0000	0.0335	0.2014	0.2349
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	1.4000e- 003	5.4500e- 003	6.8500e- 003
Fugitive Exhaust PM2.5		0.000.0	0.0321	0.1960	0.2281
PM10 Total		0.0000	0.1127	0.7436	0.8564
Exhaust PM10 PM10 Total	tons/yr	0.000.0	1.4600e- 003	5.9100e- 003	7.3700e- 003
Fugitive PM10	ton		0.1113	.7377	0.8490
s02		0.0000	4.3000e- 003	6.9100e- 0 003	0.0112
တ		0.0000	4011	2635	2.6646
ROG NOx CO SO2		0.0000 0.0000 0.0000	1,2511 0.4011 4.3000e- 003	0.1910 2	0.3177 1.4420
ROG		0.0000	0.0382	0.2795	0.3177
	Category	Hauling	Vendor	Worker	Total

Exhaust         PMI0         Fugitive         Exhaust         PMZ.5         Bio- CO2         Inside CO2         Total CO2         CH4         N2O         CO2e           s/yr         0.0864         0.0864         0.0813         0.0813         0.0813         0.0860         286.2785         286.2785         0.0681         0.0000         287.9811           0.0864         0.0864         0.0864         0.0813         0.0813         0.0863         286.2785         0.0681         0.0000         287.9811	
PM/10   Fugitive   Exhaust   PM2.5   Total   Dio-CO2   Total CO2   Total CO2   Total CO2   CH4   NIZO   Total CO3   Sec. 2785   CH4   NIZO   NIZO   CH4	
PM/10   Fugitive   Exhaust   PM/2.6   Bio- CO2   NBio- CO2   Total CO2   CH4	
PM/10 Total- Total         Exhaust PM2.5 PM2.5 Total         Bio- CO2 PM3-CO2 PM3-CO2 PM3-CO2 PM3-CO2 PM3-CO3	
PM/10   Fugitive         Exhaust PM2.5   PM2.5   PM2.5   PM2.5   Total         PM2.5   Total         NBio-CO2   NBio-CO2   NBio-CO2   PM2.5   PM2.5   Total           0.0864   0.0813   0.0813   0.0800   286.2785   PM2.5   DM2.5	
PM10 Fugitive Exhaust PM2.5 Bio-CO2 Total Total 0.0864  0.0864 0.0813 0.0813 0.0000	
PM/10 Fugitive Exhaust PM2.5 Total Total 0.0864 0.0813 0.0813 0.0864 0.0813 0.0813	
PM/10 Fugitive Exhaust PM2.5 P	
PM10 Fugitive Total PM2.5 0.0864	
PM10 Total 0.0864	
Exhaust PM10 Oh8/yr 0.0864	
Fugitive PM10	
3.3300e- 003 003	
2.0061	
1.7765	
NOX NOX 0.1942 1.7765	
Category, Off-Road	

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3.5 Building Construction - 2023
Mitigated Construction Off-Site

CO2e		0.0000	418.5624	624.9466	1,043.509 0
NZO		0.0000 0.0000	0.0000	0.0000	0.0000
CF4	ıyı.	0.0000	0.0228	0.0164	0.0392
Total CO2	MEVyr	0.0000	417.9930	624.5363	1,042.529 4
Bio-CO2 NBio-CO2 Total-CO2 CH4		0.0000 0.0000 0.0000 0.0000	417.9930 417.9930	624.5363   624.5363   0.0164	0.0000 1,042.529 1,042.529
Bio-CO2		0.0000	0.0000	0.0000	0.0000
PW2.5 Fotal		0.0000	0.0335	0.2014	0.2349
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000	1.4000e- 003	5.4500e- 003	6.8500e- 003
Fugitive PM2.5		0.0000	0.0321	0.1960	0.2281
PM10 Total		0.0000	0.1127	0.7436	0.8564
Exhaust PM10	tons/yr	0.0000	1.4600e- 003	5.9100e- 003	7.3700e- 003
Fugitive PM10	ton	0.0000	0.1113	0.7377	0.8490
co soz		0.0000	4.3000e- 003	6.9100e- 003	0.0112
ဝ၁		0.0000	<b>.4</b> 011	2.2635	2.6646
NOx		0.0000 0.0000 0.0000	1.2511 0	0.1910	0.3177 1.4420
ROG		0.0000	0.0382	0.2795	0.3177
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2023

C02e		13.1227	0.000.0	13.1227
NZO		13.0175 13.0175 4.2100e 0.0000 13.1227 003	0.000.0	0.0000
	<b>1</b> 5,	4.2100 <del>6.</del> 003	0.0000	5 13.0175 4.2100e- 003
Total CO2	Mīrkyr	13.0175	0.0000	13.0175
NBio-CO2		13.0175	0.0000	13.0175
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4		0000	0.0000	0.0000
PM2.5 Total		3.0500e- ( 003	0.0000	3.0500e- 003
Fugitive Exhaust PM2.5 PM2.5		3.0500e- 1 3 003	0.0000	3.0500e- 003
Fugitive PM2.5				
PM10 Total		3.3200e- 003	0.000	3.3200e- 003
CO SO2 Fligitive Exhaust PM10	fonsíýr	3.3200e- 003	0.0000	3.3200e- 3. 003
Fugitive PM10	ton			
SO2		1.5000 <b>e</b> - 004		1.5000e- 004
8		0.0948		0.0948
ROG NÓX		0.0663		0.0663
ROG		6.7100e- 0.0663 0.0948 1.5000e- 003 004	0.0000	6.7100e- 003
	Category	Off-Road	Paving	Total

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3.6 Paving - 2023
Unmitigated Construction Off-Site

		-			
CO2e		0.0000	0.0000	0.6160	0.6160
N2O		0.0000	0.0000	0.0000	0.0000
CH4	, ,	0.0000	0.0000	2.0000e- 005	2.0000e- 005
Total CO2	MTAT	0.0000 0.0000	0.0000	0.6156	0.6156
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	0.0000	0.6156	0.6156
Bio- CO2		0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.0000	2.0000e- 004	2.0000e- 004
Exhaust PM2.5		0.0000 0.0000	0.0000	0000e-	1.0000e- 2.0
Fugitive PM2.5		0.0000 0.0000	0.0000	9000e- 004	1.9000e- 004
PM10 Total		0.0000	0.0000	000e- 004	000e- 004
Exhaust PM10	tons/yr	0.0000	0.0000	1.0000e- 005	1.0000e- 005
Fugitive PM10	uo)	0.0000	0.0000	7.3000e- 004	7.3000e- 004
<b>用用有数数</b>		0.0000	0.0000 0.0000	1.0000e- 005	1.0000e- 005
co co		0.0000	0.0000	2.2300e- 003	2.2300e- 003
ROG NOx		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	1.9000e- 004	2.8000e- 1.9000e- 2.2300e- 1.0000e- 7.3000e- 004 004
ROG		0.0000	0.0000	2.8000e- 1.9000e- 2.2300e- 1.0000e- 7.3000e- 004 004 003 005 004	2.8000e- 004
	Category	Hauling	Vendor	Worker	Total

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3.6 Paving - 2023
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	0.6160	0.6160
OZN		0.0000 0.0000	0.0000	0.0000	0.0000
CH4	J.	0.0000	0.0000	2.0000e- 005	2.0000e- 005
Total CO2	MITAY	0.0000	0.0000	0.6156	0.6156
Bio- CO2 NBio- CO2 Total CO2		0.0000 0.0000	0.0000	0.6156	0.6156
Bio-CO2		0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.0000	2.0000e- 004	2.0000e- 004
Exhaust PM2.5		0.0000	0.000.0	1.0000e- 005	1.0000e- 005
Fugitive PM2.5		0.000	0.0000	1.900C 004	1.9000 004
PM10 Total			0.0000	3000e- 004	7.300C 004
Exhaust PM10	síyr	0.0000 0.0000	0.000.0	1.0000e- 7. 005	1.0000e- 005
Fugitive PM10	tons/yr	0.000.0	0.0000	7.3000e- 004	7.3000e- 004
S02		0.0000	0.0000	1.0000e- 005	1.0000e- 005
NOx C0 S02		0.0000	0.0000	2.2300e- 003	2.2300e- 003
NOX		0.0000 0.0000 0.0000	0.0000	2.8000e- 1.9000e- 2.2300e- 1.0000e- 004 003 005	2.8000e- 1.9000e- 2.2300e- 1.0000e- 004 005
ROG		0.0000	0.0000	2.8000e- 004	2.8000e- 004
	Сатедолу	Hauling	Vendor	Worker	Total

3.6 Paving - 2024

ž≘ I	PM/10 PM/10		PM10
tons/yr	tons/yr	tons/yr	tons/yr
5.1500e- 5.1500e- 003 003	5.1500e- 003	5.1500e- 003	0.0109 0.1048 0.1609 2.5000e- 5.1500e- 0.003
0.0000	0.000	0.000	0.0000
5.1500e- 003			•

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

Fr. Susceria	E - Tourse Pa				
C02e		0.0000	0.0000	1.0100	1.0100
NZO		0.0000	0.0000	0.0000	0.0000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 N20 Total	МТ/ут	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	3.0000e- 005	4 3.0000e- 005
Total CO2	Ā	0.0000	0.0000	1.0094	1.0094
NBio-CO2		0.0000	0.0000	1.0094	1.0094
Bio- CO2		0.000.0	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	0.0000	3.4000e- 004	3.4000e- 004
Exhaust PM2.5		0.0000	0.0000	0000e- 005	1.0000e- 005
Fugitive PM2.5		0.0000	0.000	3.3000e- 1. 004	3.3000e- 004
PM10 Total		0.0000	0.000.0	2400e- 003	1.2400e- 003
Exhaust PM10	tons/yr	0.0000 0.0000 0.0000	0.0000	.0000e- 005	- 1.0000e- 005
Fugitive PM10	(On		0.0000	1.2300e- 003	2300e 003
S02		0.0000	0.0000	1.0000e- 005	1.0000e- 005
0၁		0.0000	0.0000	3.5100e- 003	3.5100e- 003
ROG NOx		0.000.0 0.000.0 0.000.0	0.0000	44000e- 2,9000e- 3,5100e- 1,0000e- 004 004 005	4.4000e- 2.9000e- 3.5100e- 004 003
ROG		0.0000	0.0000	4.4000e- 004	4.4000e- 004
	Category	Hauling	Vendor	Worker	Total

-ugitive Exhaust PM10 Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e PM10 PM10 Total PM2.5 PM2.5 Total	tonstyr	5.1500e- 5.1500e- 6.1500e- 6.1500e- 6.1500e- 6.1500e- 6.1000 7.1200e- 6.0000 72.2073	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	5.1500e-     5.1500e-     4.7400e-     4.7400e-     4.7400e-     0.0000     22.0292     22.0292     7.1200e-     0.0000     22.2073       003     003     003     003
SO2. Fugitive Exhaust PM10 PM10		5.1500e- 003	0.0000	5.1500e- 003
NOX XON		0.0109 0.1048 0.1609 2.5000e-		0.0109 0.1048 0.1609 2.5000e- 004
ROG	Category	Off-Road 0.0109	Paving 0.0000	Total 0.0109

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3.6 Paving - 2024
Mitigated Construction Off-Site

C02e		0.0000	0.0000	1.0100	1.0100
NZO		0.0000	0.0000	0.0000	0.0000
CF4	'yı	0.000.0	0.0000	3.0000e- 005	3.0000e- 005
Total CO2	EW.	0.000	0.0000	1.0094	1.0094
NBio-CO2		0.000.0	0.0000	1.0094	1.0094
PM2.5 Bio- CO2 NBio- CO2 Total CO2 Total		0.000.0	0.0000	0.0000	0.000
PM2.5 Total		0.000.0	0.0000	3.4000e- 004	3.4000e- 004
Exhaust PM2.5		0.0000	0.0000	1.0000e- 005	1.0000e- 3 005
Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.000.0	0.0000	3000e- 004	3.3000e- 004
PM10 Total		0.0000 0.0000	0.0000	1.2400e- 003	1.2400e- 003
Exhaust PM10	skyr	0.0000	0.000.0	1.0000e- 005	1.0000e- 005
Fugitive PM10	tons/yr	0.0000	0.0000	1.2300 <del>c.</del> 003	1.2300e- 003
S02		0.0000	0.0000	)e- 1.0000e- 1.2 005 (	1.0000e- 005
00		0.0000	0.000.0	3.5100e- 003	3.5100e- 003
ROG NOx CO SO2		0.0000	0.000.0	2.9000e- 004	4.4000e- 2.9000e- 004 004
Rog		0.0000 0.0000 0.0000	0.0000	4.4000e- 2.9000e- 3.5100e- 004 003	4.4000e- 004
	Category	Hauling	Vendor	Worker	Total

3.7 Architectural Coating - 2024 Unmitigated Construction On-Site

			_	
CO2e		0.0000	4.4745	4.4745
NZO		0.0000	0.000.0	0.0000
CH44			4,4682 2,5000e- (	4.4682 2.5000e- 0
Total CO2	MT/yr	0.0000	4.4682	4.4682
NBio-CO2		0.0000 0.0000 0.0000 0.0000	4.4682	4.4682
Bio-CO2		0.0000	0.000.0	0.0000
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 N2O CO2e		0.000.0	1.0700e- 003	1.0700e- 0 003
		0.0000 0.0000	1.0700e- 003	1.0700e- 003
PM10 Fugitive Exhaust Total PM2.5 PM2.5			           	
PM10 Total		0.000.0	1.0700e- 003	1.0700e- 003
Exhaust PM10	tons/yr	0.0000	1.0700e- 1.0700e- 003 003	1.0700e- 003
Fugitive PM10	<b>lo</b>			
SO2			5.0000 <b>e-</b> 005	5.0000e- 005
ဝ၁			0.0317	0.0213 0.0317
NOX			0.0213	0.0213
ROG		4.1372	3.1600e- 0.0213 003	4.1404
	Category	Archit. Coating 4.1372	Off-Road	Total

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3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

C02e		0.0000	0.0000	17.1394	17.1394
NZO		0.0000	0.0000	0.0000	0.0000
CH4	N.		0.0000	4.3000e- (	4.3000e- 004
Total CO2	MT/yr	0.0000 0.0000	0.0000	17.1287	17.1287 4.3000e-
NBio-CO2		0.000.0	0.000.0	17.1287	17.1287
Bio- CO2 NBio- CO2 Total CO2		0.0000 0.0000	0.000.0	0.0000	0.0000
PM2.5 Total		0.000.0	0000.0	5.7000e- 003	5.7000e- 003
Exhaust PM2.5		0.0000	0.0000	1.5000e- 004	1.5000e- 004
PM10 Fugitive Total PM2.5		0.000 0.0000 0.0000	0.0000	5.5500e- 003	1 5.5500e- 003
PIM10 Total		0.000.0	0.000.0	.021	.021
Exhaust PM10	JAC.	0.000.0	0.000.0	1.6000e- 004	1.6000e- 004
SO2 Fugitive PM10	tons/yr	0.000.0	0.0000	.0209	0.0209
S02		0.000.0	0.000.0	1.9000e- 0 004	1.9000e- 004
တ		0.0000	0.000.0	0.0596	0.0596
NOx CO		0.0000 0.0000 0.0000	0.0000 0.0000	4.9300e- 003	7.4800e- 4.9300e- 003 003
ROG		0.0000	0.0000	7.4800e- 4.9300e- ( 003 003	7.4800e- 003
	Category	Hauling	Vendor	Worker	Total

	■ #= <b>27</b> 5 % . • . • .			
CO2e		0.0000	4.4745	4.4745
N2O		0.000.0	0.0000	0.0000
сн4	У	0.000.0	2.5000e- 004	2.5000e- 004
Total CO2	MT/yr	0.000.0	4.4682 2.5000e- 0.0	4.4682
NBio- CO2		0.0000 0.0000 0.0000 0.0000 0.0000	4.4682	4.4682
Bio-CO2 NBio-CO2 Total CO2		0.000.0	0.000.0	0.0000
PM2.5 Total		0.000	1.0700e- 003	1.0700e- 003
Exhaust PM2.5		0.0000	1.0700e- 003	1.0700e- 003
Fugitive PM2.5				
PM10 Total		0.000.0	1.0700e- 003	1.0700e- 003
Exhaust PM10	, lýt	0.0000	1.0700e- 003	1.0700e- 003
Fugitive PM10	tons/yr	• • • •		
S02			5.0000e- 005	5.0000e- 005
CO			0.0317	0.0317
NOX			0.0213	0.0213
ROG		4.1372	3.1600e- 0. 003	4.1404
	Category	Archit. Coating	Off-Road	Total

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3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

CO2e		0.0000	0.000.0	17.1394	17.1394
25.35.22			¦	<u></u>	
N20		0.0000	0.0000	0.0000	0.0000
CF4	VIT (yr.	0.000	0.0000	4.3000 <del>c</del> - 004	4.3000e- 004
Total CO2	MT	0.0000 0.0000	0.000.0	17.1287	17.1287
NBio-CO2		0.0000	0.0000	17.1287	17.1287
PM2.5 Bio-CO2 NBio-CO2 Total CO2 Total		0.000.0	0.0000	0.0000	0.000.0
		0.000.0	0.0000	5.7000e- 003	5.7000e- 003
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0000	1.5000e- 004	1.5000e- 004
Fugifive PM2.5		0.0000	0.0000	1 5.5500e- 003	5.5500e- 003
PM10 Total		0.0000	0.0000	0.0211	0.0211
Exhaust PM10	tons/yr	0.0000	0.0000	1.6000e- 004	1.6000e- 004
Fugitive PM10	fon	0.0000	0.0000	0.0209	0.0209
S02		0.000.0	0.000.0	1.9000e- 004	1.9000e- 004
ROG NOX CO		0.0000 0.0000 0.0000	0.000.0	0.0596	0.0596
NOX		0.0000	0.0000	7.4800e- 4.9300e- 003 003	7.4800e- 4.9300e- 003 003
ROG		0.0000	0.0000	7.4800e- 003	7.4800e- 003
	Category	Hauling	Vendor	Worker	Total

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

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	(1) justicus e	<b>.</b>	1,6
C02e		7,629.016 2	7,629.016
NZO		0.000	0.0000
CH4	Ŋ.	0.3407	0.3407
Total CO2	/IMI	7,620.498 6	7,620.498 6
VBio-CO2		7,620.498 6	7,620.498
Bio- CO2		0.000.0	0.000.0
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total		.7979 0.0580 7.8559 2.0895 0.0539 2.1434 0.0000 7,620.498 7,620.498 0.3407 0.0000 7,629.016	2.1434 0.0000 7,620.498 7,620.498 0.3407 0.0000 7,629.016 6 6 2
PM10: Fugitive Exhaust Total PM2.5 PM2.5		0.0539	0.0539
Fugitive PM2.5		2.0895	0.0580 7.8559 2.0895 0.0539
PM10- Total		7.8559	7.8559
Exhaust PM10	/yr	0.0580	0.0580
igitive M10	tons/yr	9767.7	979
S02		0.0821	0.0821
00		19.1834	19.1834
ROG NOX CO SO2 FI		7.9962	7.9962
ROG		1.5857 7.9962 19.1834 0.0821 7	1.5857 7.9962 19.1834 0.0821 7.
	Category	Mitigated	Unmitigated

### 4.2 Trip Summary Information

	Avera	Average Daily Trip Rate	ite	Unmitigated	Mitigated
Land Use	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

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		Miles			Trip %			Trip Purpose %	% *
Land Use	H-Worc-W H-So	H-S or C-C	or C-C H-O or C-NW	H-W or C-W	H-S or C-C	HW or C-W H-S or C-G H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	98	1	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86		3
General Office Building	16.60	8.40	9.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	9.90	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
	16.60	8.40	6.90	12.00	69.00	19.00	38	18	4
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	1

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	LDA LDT1 LDT2 MDV LHD1 LHD2 MHD HHD OBUS UBUS MCY SBUS MH	SBUS	MH
Apartments Low Rise	0.543088 0.044216 0.20	0.044216	1266	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.000712	0.000821
Apartments Mid Rise	0.543088 0.044216 0.209971	0.543088 0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	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	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	543088 0.044216 0.20	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	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	0.000712	0.000821
Hotel	0.543088 0.044216	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	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	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	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	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	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.000712	0.000821

### 5.0 Energy Detail

Historical Energy Use: N

# 5.1 Mitigation Measures Energy

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	ROG	XON	8	S02	Fugitive PM10	xhaust PM10	PM10 Total	Fugitive Exhaust PM2.5 PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	Bio- CO2 NBio- CO2 Total CO2	Total CO2	CH4	NZO	C02e
Category					tons/yr	/yr							MT/yr	lyr.		
Electricity Mitigated						0.0000 0.0000	0.000.0		0.0000	0.0000	0.0000	2,512.646 5	0.0000 0.0000 2,512.646 2,512.646 0.1037		0.0215 2,521.635 6	2,521.635 6
Electricity Unmitigated						0.0000	0.0000		0.000.0	0.0000	0.0000	2,512.646 5	2,512.646 2,512.646 5 5	0.1037	0.0215	2,521.635 6
NaturalGas Mitigated	0.1398	1.2312 0.7770	0.7770	7.6200e- 003		0.0966	0.0966		9960.0	9960.0	0.0000	1,383.426 7	1,383.426 1,383.426 7 7	0.0265	0.0254	1,391.647 8
NaturalGas Unmitigated	0.1398	1.2312 0.7770	0.7770	0 7.6200e- 003		9960.0	9960.0		9960.0	0.0966	0.0000	1,383.426 7	1,383.426 1,383.426 7 7	0.0265	0.0254	1,391.647 8

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

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5.2 Energy by Land Use - NaturalGas

#### Unmitigated

53,573.		Т			Τ				<b>.</b>
CO2e		21.9284	701.1408	25.1468	445.9468	93.4557	99.0993	4.9301	1,391.647 8
NZO		4.0000e- 004	0.0128	4.6000e- 004	8.1300e- 003	1.7000e- 003	1.8100e- 003	9.0000e- 005	0.0254
СН4	MT/yr	4.2000e- 004	0.0134	4.8000e- 004	8.5000e- 003	1.7800e- 003	1.8900e- 003	9.0000e- 005	0.0265
Total CO2	EW .	21.7988	686.969	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio-CO2 NBio-CO2 Total CO2		21.7988	686.989	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio-CO2		0.000.0	0.000.0	0.0000	0.0000	0.0000	0.000.0	0.000	0.0000
PM2.5 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Exhaust PM2.5		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	9960'0
Fugitive PM2.5									
PM10 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Exhaust PM10	tons/yr	1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Fugitive PM10	tor					- 3			
s05		1.2000e- 004	3.8400e- 003	1.4000e- 004	2.4400e- 003	5.1000e- 004	5.4000e- 004	3.0000e- 005	7.6200e- 003
တ		8.0100e- 003	0.2561	0.0193	0.3421	0.0717	0.0760	3.7800e- 003	0.777.0
NOx		0.0188	0.6018	0.0230	0.4072	0.0853	0.0905	4.5000e- 003	1.2312
ROG		2.2000e- 003	0.0704	2.5300e- 003	0.0448	9.3900e- 003	9.9500e- 003	5.0000e- 004	0.1398
NaturalGa s Use	квтилуг	408494	1.30613e +007	468450	8.30736e +006	1.74095e +006	1.84608e +006	91840	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit 8.30736e Down Restaurant) +006	Hotel	Quality Restaurant	Regional Shopping Center	Total

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5.2 Energy by Land Use - NaturalGas

#### **Mitigated**

						_			
C02e		21.9284	701.1408	25.1468	445.9468	93.4557	99.0993	4.9301	1,391.647 8
NZO		4.0000e- 004	0.0128	4.6000e- 004	8.1300e- 003	1.7000e- 003	1.8100e- 003	9.0000e- 005	0.0254
CH4	λŷΓ	4.2000e- 004	0.0134	4.8000e- 004	8.5000e- 003	1.7800e- 003	1.8900e- 003	9.0000e- 005	0.0265
Total CO2	MT/yr.	21.7988	696.969	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio-CO2 NBio-CO2 Total CO2		21.7988	686.969	24.9983	443.3124	92.9036	98.5139	4.9009	1,383.426 8
Bio-CO2		0.0000	0.000.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Exhaust PM2.5		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Fugitive PM2.5					<b></b>				
PM10 Total		1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Exhaust PM10	tons/yr	1.5200e- 003	0.0487	1.7500e- 003	0.0310	6.4900e- 003	6.8800e- 003	3.4000e- 004	0.0966
Fugitive PM10	fon								
S02		1.2000e- 004	3.8400e- 003	1.4000e- 004	2.4400e- 003	5.1000e- 004	5.4000e- 004	3.0000e- 005	7.6200e- 003
တ		8.0100e- 003	0.2561	0.0193	0.3421	0.0717	0.0760	3.7800e- 003	0.7770
XON		0.0188	0.6018	0.0230	0.4072	0.0853	0.0905	4.5000e- 003	1.2312
ROG		2.2000e- 003		2.5300e- 003	0.0448	9.3900e- 003	9.9500e- 003	5.0000e- 004	0.1398
NaturalGa s Use	kBTU/yr	408494	1.30613e +007	468450	8.30736e	1.74095e	1.84608e +006	91840	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit 8.30736e Down Restaurant) +006	Hotel	Quality Restaurant	Regional Shopping Center	Total

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5.3 Energy by Land Use - Electricity

**Unmitigated** 

C02e		33.8978	1,262.086	186.9165	508.1135	175.9672	112.9141	241.7395	2,521.635 6
N2O	MT/yr	2.9000e- 004	0.0107	1.5900e- 003	4.3200e- 003	1.5000e- 003	9.6000e- 004	2.0600e- 003	0.0215
CH4	LIM)	1.3900e- 003	0.0519	7.6900e- 003	0.0209	7.2400e- 003	4.6500e- 003	9.9400e- 003	0.1037
Total CO2		33.7770	1,257.587 9	186.2502	506.3022	175.3399	112.5116	240.8778	2,512.646 5
Electricity Use	kwh/yr	106010	3.94697e +006	584550	1.58904e +006	250308	353120	756000	
	Land Use	<sup>∆</sup> partments Low Rise	Apartments Mid Rise	General Office Building	igh Turnover (Sit Jown Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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5.3 Energy by Land Use - Electricity

#### Mitigated

C02e		33.8978	1,262.086 9	186.9165	508.1135	175.9672	112.9141	241.7395	2,521.635 6
N2O	MT/yr	2.9000e- 004	0.0107	1.5900e- 003	4.3200e- 003	1.5000e- 003	9.6000e- 004	2.0600e- 003	0.0215
СН4	LW	1.3900e- 003	0.0519	7.6900e- 003	0.0209	7.2400e- 003	4.6500e- 003	9.9400e- 003	0.1037
Total CO2		33.7770	1,257.587 9	186.2502	506.3022	175.3399	112.5116	240.8778	2,512.646 5
Electricity Use	KWhyr	106010	3.94697e +006	584550	1.58904e +006	250308	353120	756000	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

### 6.0 Area Detail

### 6.1 Mitigation Measures Area

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f			
co2e		222.5835	222.5835
		0.0000 220.9670 220.9670 0.0201 3.7400e- 222.5835 003	220.9670 220.9670 0.0201 3.7400e 222.5835 003
Bio-CO2 NBio-CO2 Total CO2 CH4 N20	, , , , , , , , , , , , , , , , , , ,	0.0201	0.0201
Fotal CO2	V.E.W	220.9670	220.9670
Bio-CO2		220.9670	220.9670
Bio-CO2 N		0.0000	0.000.0
PM2.5 Total			0.0714
7 W. W		0.0714 0.0714	0.0714
PM10 Fugitive Exhaust Total PM2.5 PM2.5			
PM10 Total		0.0714	0.0714
Jugitive Exhaust	, i	0.0714 0.0714	0.0714 0.0714
Fugitive PM10	/suat		
S02		1.6700e- 003	1.6700e- 003
00		2950 10.3804	10.3804
NOx		5.1437 0.2950 10.3804 1.6700e-	5.1437 0.2950 10.3804 1.6700e- 003
ROG		5.1437	5.1437
	Category	Mitigated	Jnmitigated
			5

### 6.2 Area by SubCategory

Unmitigated

C02e		0.0000	0.0000	205.3295	17.2540	222.5835
N2O		0.0000	0.0000	3.7400e- 003	0.0000	3.7400e- 003
CH4	JA,	0.0000 0.0000	0.0000	3.9100e- 003	0.0161	0.0201
Total CO2	MT/yr	0.000.0	0.0000	204.1166	16.8504	220.9670
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	204.1166	16.8504	220.9670
Bio-CO2		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.000	0.0000	0.0143	0.0572	0.0714
Exhaust PM2.5		0.000.0	0.000.0	0.0143	0.0572	0.0714
Fugitive PM2.5			<b>;</b>               			
PM10 Total		0.0000	0.000.0	0.0143	0.0572	0.0714
Exhaust PM10	fons/yr	0.000.0	0.000.0	0.0143	0.0572	0.0714
Fugitive PM10	(ou					
s02				1.1200e- 003	5.4000e- 004	1.6600e- 003
ဝ၁				0.0750	10.3054 5.4000e- 004	10.3804
XON				0.1763	0.1187	0.2950
ROG		0.4137	4.3998	0.0206	0.3096	5.1437
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

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6.2 Area by SubCategory

Mitigated

The state	Eskigi zir 18				1	Г.
C02e		0.0000	0.0000	205.3295	17.2540	222.5835
NZO		0.0000	0.0000	3.7400e- 2 003	0.0000	3.7400e- 003
CH4	J.	0.0000	0.0000	3.9100e- 003	0.0161	0.0201
Total CO2	MT/yr	0.0000	0.0000	204.1166	16.8504	220.9670
Bio- CO2 NBio- CO2 Total CO2		0.000.0	0.000.0	204.1166	16.8504	220.9670
Bio-CO2		0.000.0	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		0.0000	00000	0.0143	0.0572	0.0714
Exhaust PM2.5		0.000.0	0.000.0	0.0143	0.0572	0.0714
Fugitive PM2.5			 			
PM10 Total:		0.000.0	0.000.0	0.0143	0.0572	0.0714
Exhaust PM10	3//	0.0000	0.0000	0.0143	0.0572	0.0714
Fugitive PM10	tons/yr					
S02				1.1200e- 003	5.4000e- 004	1.6600e- 003
zos oo				0.0750	10.3054	0.2950 10.3804 1.6600e-
NOX				0.1763	0.1187	0.2950
ROG		0.4137	4.3998	0.0206	0.3096	5.1437
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

### 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

raylal of Makes and Assault	<del></del>	
CO2e	683.7567	683.7567
N2O 'ýr	0.0755	0.0755
CH4	3.0183	3.0183
Total CO2 CH4	585.8052	585.8052
Category	Mitigated	Unmitigated

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7.2 Water by Land Use

#### Unmitigated

C02e		12.6471	493.2363	61.6019	62.8482	7.5079	13.9663	31.9490	683.7567
N2O	MT/yr	1.3400 <b>e-</b> 003	0.0523	6.5900e- 003	8.8200e- 003	1.0300e- 003	1.9600e- 003	3.4200 <del>e</del> - 003	0.0755
СН4	W	0.0535	2.0867	0.2627	0.3580	0.0416	0.0796	0.1363	3.0183
Total CO2		10.9095	425.4719	53.0719	51.2702	6.1633	11.3934	27.5250	585.8052
Indoor/Out door Use	Mgal	1.62885 / 1.02688	63.5252 / 40.0485	7.99802 / 4.90201	10.9272 / 0.697482	1.26834 / 0.140927	2.42827 / 0.154996	4.14806 / 2.54236	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Tumover (Sit Down Restaurant)	Hotei	Quality Restaurant	Regional Shopping Center	Total

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7.2 Water by Land Use

#### Mitigated

C02e		12.6471	493.2363	61.6019	62.8482	7.5079	13.9663	31.9490	683,7567
NZO	MTlyr	1.3400e- 003	0.0523	6.5900e- 003	8.8200e- 003	1.0300e- 003	1.9600e- 003	3.4200e- 003	0.0755
CH4	M	0.0535	2.0867	0.2627	0.3580	0.0416	0.0796	0.1363	3.0183
Total CO2		10.9095	425.4719	53.0719	51.2702	6.1633	11.3934	27.5250	585.8052
Indoor/Out door Use	Mgal	1.62885 / 1.02688	63.5252 / 40.0485	7.99802 / 4.90201	10.9272 / 0.697482	1.26834 / 0.140927	2.42827 / 0.154996	4.14806 / 2.54236	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

### 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

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

Category/Year

CO2e	514.8354	514.8354
N2O ATAN	0.0000	0.0000
CH4	12.2811	12.2811
Total CO2	207.8079	207.8079
	Mitigated	Unmitigated

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8.2 Waste by Land Use

#### Unmitigated

C02e		5.7834	225.5513	21.0464	215.4430	13.7694	3.6712	29.5706	514.8354
NZO	MT/yr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CH4	LW.	0.1380	5.3804	0.5021	5.1393	0.3285	0.0876	0.7054	12.2811
Total CO2		2.3344	91.0415	8.4952	86.9613	5.5579	1.4818	11.9359	207.8079
Waste Disposed	tons	11.5	448.5	41.85	428.4	27.38	7.3	58.8	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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### 8.2 Waste by Land Use

#### Mitigated

C02e		5.7834	225.5513	21.0464	215.4430	13.7694	3.6712	29.5706	514.8354
N20	MT/yr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CH4	W	0.1380	5.3804	0.5021	5.1393	0.3285	0.0876	0.7054	12.2811
Total CO2		2.3344	91.0415	8.4952	86.9613	5.5579	1.4818	11.9359	207.8079
Waste Disposed	tons	11.5	448.5	41.85	428.4	27.38	7.3	58.8	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

### 9.0 Operational Offroad

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### 10.0 Stationary Equipment

# Fire Pumps and Emergency Generators

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

#### Boilers

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### 11.0 Vegetation

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

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### 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	Lot Acreage Floor Surface Area Population	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

Freq (Days) 33	'ear 2028		0.006
Precipitation Freq (Days)	Operational Year		N2O Intensity (Ib/MWhr)
2.2			0.029
Wind Speed (m/s)		ınia Edison	CH4 Intensity (Ib/MWhr)
Urban	ത	Southern California Edison	702.44
Urbanization	Climate Zone	Utility Company	CO2 Intensity (Ib/MWhr)

# 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

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

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

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

### 2.0 Emissions Summary

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

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2.1 Overall Construction (Maximum Daily Emission)

#### **Unmitigated Construction**

	T 5	_				
COZe		6,212.103 9	12,518.57 07	12,174.46 15	2,331.095 6	0.0000 12,518.57 07
OZN		0.0000	0.0000	0.0000	0.0000	0.0000
CH4	lay	1.9475	1.9485	0.9589	0.7166	1.9485
Total CO2	Ab/day	6,163.416 6	12,493.44 03	12,150.48 90	2,313.180 8	12,493.44 03
Bio-CO2 NBio-CO2 Total CO2		0.0000 6,163.416 6,163.416 1.9475 0.0000 6,212.103	12,493.44 12,493.44 03 03	12,150.48 12,150.48 90 90	2,313.180 2,313.180 8 8	0.0000 12,493.44 12,493.44 03 03
Bio-CO2		0.0000	0.0000	0.0000	0.0000	0000'0
PM2.5 Total		11.8490	5.1421	2.5935	0.4621	11.8490
Exhaust PM2.5		20.2488 9.9670 1.8820 11.8490	1.5052	0.7136	0.4319	1.8820
Fugitive PM2.5		9.9670	3.6369	1.8799	0.3229	0296.6
PM10 Total		20.2488	10.4616	7.7679	1.2875	20.2488
Exhaust PM10	lb/daý	18.2032 2.0456	1.6361	0.7592	0.4694	2.0456
Fugitive PM10	/qı	18.2032	8.8255	7.0088	1.2171	18.2032
soz		0.0636	0.1240	0.1206	0.0239	0.1240
O)		31.4494	40.8776	38.7457	14.9642	40.8776
NOX		4.2561 46.4415 31.4494	38.8811	25.7658	9.5478	46.4415
RoG		4.2561	4.5441	4.1534	237.0219	237.0219
	Year	2021	2022	2023	2024	Maximum

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

2.1 Overall Construction (Maximum Daily Emission)

#### Mitigated Construction

CO2e		6,212.103 9	12,518.57 07	12,174.46 15	2,331.095	12,518.57 07
NZO		0.0000 6,212.103	0.0000	0.0000	0.0000	0.0000
CH4	lay	1.9475	1.9485	0.9589	0.7166	1.9485
Total CO2	lb/đay	6,163.416 6	12,493.44 03	12,150.48 90	2,313.180 8	12,493.44 03
Bio- CO2 NBio- CO2 Total CO2		6,163.416 6,163.416 6 6	12,493.44 12,493.44 03 03	12,150.48 12,150.48 90 90	2,313.180	12,493.44 12,493.44 03 03
		0.0000	0.0000	0.0000	0.0000	0.0000
PM2.5 Total		11.8490	5.1421	2.5935	0.4621	11.8490
Exhaust PM2.5		1.8820	1.5052	0.7136	0.4319	1.8820
Fugitive PM2.5		9.9670	3.6369	1.8799	0.3229	9.9670
PM10 Total		20.2488	10.4616	7.7679	1.2875	20.2488
Exhaust PM10	lay	2.0456	1.6361	0.7592	0.4694	2.0456
Fugitive PM10	lb/day	18.2032	8.8255	7.0088	1.2171	18.2032
CO S02		0.0636	0.1240	0.1206	0.0239	0.1240
8		46,4415 31.4494	40.8776	38.7457	14.9642	40.8776
×ON			38.8811	25.7658	9.5478	46.4415
ROG		4.2561	4.5441	4.1534	237.0219	237.0219
	Year	2021	2022	2023	2024	Maximum

coze	0.00
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NZ0	0.00
CH4	0.00
Total CO2	0.00
PN2.5 Bio- CO2 NBio-CO2 Total CO2 Total	0.00
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Fugitive PM2.5	0.00
PM10 Total	0.00
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	Percent Reduction

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

2.2 Overall Operational Unmitigated Operational

i salueda	Political Co			T	Ι.
CO2e		18,259.11 92	8,405.638 7	50,361.12 08	77,025.87 86
NZO		0.3300	0.1532	 	0.4832
CH4	<b>Se</b>	0.4874	0.1602	2.1807	2.8282
Total CO2	lb/day	18,148.59 50	8,355.983	50,306.60 34	76,811.18 16
NBio-CO2		18,148.59 50	8,355,983 8,355,983 0.1602 2 2	50,306.60 50,306.60 34 34	0.0000 76,811.18 76,811.18 2.8282 16 16
Bio-CO2		0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 92	L		0.0000
PWZ.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total			0.5292	12.6070	14.7336
Fugitive Exhaust PM2.5 PM2.5		1.5974 1.5974	0.5292	0.3119	2.4385
Fugitive PM2.5				12.2950	12.2950
PM10 Total		1.5974	0.5292	46.2951	48.4217 12.2950
ugitive Exhaust PM10 PM10	lb/day	1.5974	0.5292	0.3360	2.4626
Fugitive PM10	/gi			45.9592	45.9592
S02		0.0944	0.0418	0.4917	0.6278
8		88.4430	4.2573	45.4304 114.8495 0.4917	207.5497
NOx		30.5020 15.0496 88.4430 0.0944	6.7462	45.4304	67.2262
ROG		30.5020	0.7660	9.8489	41.1168
	Category	Area	Energy	Mobile	Total

#### Mitigated Operational

Tay Some	a von Stere				
CO2e		18,259.11 92	8,405.638	50,361.12 08	77,025.87 86
NZO		0.3300 18,259.1 <sup>°</sup>	0.1532		0.4832
CH4	ay		0.1602	2.1807	2.8282
Total CO2	lb/day	18,148.59 50	8,355.983	50,306.60	76,811.18 16
Bio-CO2 NBio-CO2 Total CO2		0.0000 18,148.59 18,148.59 0.4874 50 50	8,355.983 8,355.983 2 2	50,306.60 50,306.60 34 34	76,811.18 76,811.18 16
Bio-CO2		0.000.0			0.0000
PM2.5 Total		1.5974	0.5292	12.6070	14.7336
Exhaust PM2.5		1.5974	0.5292	0.3119	2.4385
Fugitive PM2.5			<b>;</b>               	12.2950 0.3119	12.2950
PM10 Total		1.5974	0.5292	46.2951	48.4217
Exhaust PM10	lay	1.5974	0.5292	0.3360	2.4626
Fugitive PM10	lb/day			45.9592	45.9592
S02		0.0944	0.0418	0.4917	0.6278
ဝ		88.4430	4.2573	114.8495	207.5497
XON		30.5020 15.0496 88.4430	0.7660 6.7462	45.4304 114.8495 0.4917	67.2262 207.5497
ROG		30.5020	0.7660	9.8489	41.1168
	Category	Area	Energy	Mobile	Total

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

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COZe	0.00
NZO	00'0
CH4	0.00
Total CO2	0.00
Bio- CO2 NBio-CO2 Total CO2	0.00
Bio- CO2	0.00
PM2.5 Total	0.00
Exhaust PM2.5	0.00
Fugitive PM2.5	0.00
PM10 Total	00:0
Exhaust PM10	0.00
Fugitive PM10	0.00
S02	00.00
8	00'0
Š	00'0
ROG	0.00
	Percent Reduction

#### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Num Days Week	Num Days	Phase Description
1	Demolition	Demolition		10/12/2021	5	30	
2	aration	aration	10/13/2021	11/9/2021	5	20	
3	Grading			1/11/2022	5	45	
4	Building Construction	Building Construction	)22	12/12/2023	5	200	
5	Paving	Paving		1/30/2024	5	35	
9	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

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

		Alloquit	Coase Ions	DANCE DE DE	Load Factor
Demolition	Concrete/Industrial Saws		8.00	81	0.73
Demolition	Excavators	() () () () () () () () () () () () () (	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	e	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes		8.00	1.6	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders		8.00	187	0.41
Grading	Rubber Tired Dozers		8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	26	0.37
Building Construction	Cranes		7.00	231	0.29
Building Construction	Forklifts	r	8.00	68	0.20
Building Construction	Generator Sets	-	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	С	7.00	26	0.37
Building Construction	Welders	—	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78.	0.48

**Trips and VMT** 

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

Phase Name Offroad Equipment Worker Trip Count Number	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Vendor Trip Hauling Trip Worker Vehicle Length Class	Vendor Hauling Vehicle Class Vehicle Clas	Hauling Vehicle Class
Demolition	9	15.00	00.00	458.00	10.00	06.9	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Site Preparation	2	18.00	00.00	0.00	10.00	9.90	20.00 LD_N	20.00 LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	00.00	0.00	10.00	06.9	20.00 L	20.00 LD_Mix	HDT_Mix	HHDT
Building Construction	6	801.00	143.00	0.00		9.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Paving	9	15.00	00.00	0.00	10.00	06.9	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	00.00	00.00	10.00	6.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT

## 3.1 Mitigation Measures Construction

3.2 Demolition - 2021

CO2e		0.000.0	3,774.317	3,774.317 4
NZO			· <b>†</b> ·	
CH4	ay		1.0549	1.0549
Total CO2	lb/day	0.0000	3,747.944 9	3,747.944 3,747.944 9 9
NBio-CO2			3,747.944 3,747.944 9 9	3,747.944 9
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 Total			: : : :	
PM2.5 Total		0.5008	1.4411	1.9419
Exhaust PM2.5		0.0000 0.5008	1.4411 1.4411	1.4411
Fugitive Exhaust PM2.5 PM2.5		0.0000 3.3074 0.5008		0.5008
PM10 Total		3.3074	1.5513	4.8588
Exhaust PM10	lb/day	0.0000	1.5513	1.5513
Fugitive PM10	//ql	3.3074		3.3074
co soz			0.0388	0.0388
			21.5650	21.5650
XÔN.			3.1651 31.4407 21.5650	3.1651 31.4407 21.5650 0.0388
ROG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

3.2 Demolition - 2021

## Unmitigated Construction Off-Site

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CO2e		1,294.433 7	0.0000	117.3678	1,411.801
NZO				           	
CH4	lay	0.0877	0.0000	3.5200e- 003	0.0912
Total CO2	1b/day	1,292.241 1,292.241 0.0877 3 3	0.0000	117.2799 3.5200e- 003	1,409.521 1,409.521 2 2
Bio-CO2   NBio-CO2   Total CO2   CH4		1,292.241 3	0.0000	117.2799	1,409.521 2
Bio-CO2				1 1 1 1 1 1	
PM2.5 Total		0.0852	0.0000	0.0311	0.1163
Exhaust PM2.5		0.0120	0.0000	8.8000e- 004	0.0129
Fugitive PM2.5		0.0732	0.0000	0.0303	0.1034
PM10 Total		0.2795	0.000.0	0.1151	0.3946
Exhaust PM10	lb/day	0.0126	0.0000	9.5000e- 004	0.0135
Fugitive PM10	)/GI	0.2669	0.0000	0.1141	0.3810
<b>S</b> 02		0.0119	0.0000	.2 1.1800e- 003	0.0131
CO SO2		0.9602	0.000	0.428	1.3884
ROG NOx		4.0952	0.0000	0.0313	4.1265
<b>20</b> 0		0.1273	0.0000	0.0487	0.1760
	Category	Hauling	Vendor	Worker	Total

· · · · · · ·				
CO2e		0.0000	3,774.317 4	3,774.317 4
N20.				
CH4			1.0549	1.0549
otal CO2	lb/day	0.0000	3,747.944 9	,747.944 9
NBio-CO2			3,747.944 3,747.944 9 9	3,747.944
Bio-CO2			0.0000	0.0000
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 4/2O CO2e		0.5008	1.4411	1.9419 0.0000 3,747.944 3,747.944 9
Exhaust PM2.5		3.3074 0.0000 3.3074 0.5008 0.0000 0.5008	1.4411 1.4411	1.4411
Fugitive PM2.5		0.5008	       	0.5008
PM10 Total		3.3074	1.5513	4.8588
Exhaust PM10	ay	0.0000	1.5513	1.5513
Fugitive PM10	kep/qj	3.3074	               	3.3074
S02			0.0388	0.0388
8			21.5650	21.5650
ROG NOX CO			3.1651 31.4407 21.5650	3.1651 31.4407 21.5650 0.0388
ROG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

3.2 Demolition - 2021

### Mitigated Construction Off-Site

C02e		1,294.433 7	0.0000	117.3678	1,411.801
N2O		· · · · ·	 		
CH4	lay	0.0877	0.0000	3.5200e- 003	0.0912
Bio- CO2 NBio- CO2 Total CO2 CH4	lb/day	1,292.241 1,292.241 0.0877	0.0000	17.2799 117.2799 3.5200e-	1,409.521 1,409.521 2 2
NBio-CO2		1,292.241 3	0.0000	117.2799	1,409.521 2
Bio-CO2			 		
PM2.5 Total		0.0852	00000	0.0311	0.1163
Exhaust PM2.5		0.0120	0.0000	8.8000e- 004	0.0129
Fugitive PM2.5		0.0732	0.0000	0.0303	0.1034
PM10 Total		0.2795	0.0000	0.1151	0.3946
Exhaust PM10	day	0.0126	0.0000	9.5000e- 004	0.0135
Fugitive PM10	lb/day	0.2669	0.0000	.1141	0.3810
S02		0.0119	0.0000	1.1800e- 0 003	0.0131
တ		4.0952 0.9602 0.0119	0.000	0.4282	1.3884
NOX		4.0952	0.0000	0.0313	4.1265
ROG		0.1273	0.0000	0.0487	0.1760
	Category	Hauling	Vendor	Worker	Total

#### 3.3 Site Preparation - 2021

1.1 950	autoti w		' <u>`</u>	T.
N2O CO2e		0.0000	3,715.457 3	3,715.457 3
NZO				
CH4	lb/ďäy		1.1920	1.1920
Total CO2	p/gl	0.0000	3,685.656 9	3,685.656 9
Bio- CO2 NBio- CO2 Total CO2 CH4			3,685.656 13,685.656 9 9	3,685.656 3,685.656 9
Bio- CO2				
PM2.5 Total		9.9307	1.8809	11.8116
Exhaust PM2.5		0.000.0	1.8809	1.8809
agitive M2.5		0.0000 18.0663 9.9307 0.0000	             	
PM10 Total		18.0663	2.0445	20.1107 9.9307
Exhaust PM10	lb/day	0.0000	2.0445	2.0445
Fugitive PM10	)/ql	18.0663		18.0663
S02			0.0380	0.0380
ZOS 00			21.1543	21.1543
ROG NOx			40.4971 21.1543	3.8882 40.4971 21.1543 0.0380 18.0
ROG		• • • •	3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

C 32- N 12	E		,		
C02e		0.0000	0.0000	140.8414	140.8414
NZO					
CH4	lb/day	0.0000	0.0000	4.2200e- 003	4.2200e- 003
Total CO2	JQI	0.000.0	0.0000	140.7359 140.7359	140.7359 140.7359
NBio- CO2		0.000.0	0.0000	140.7359	140.7359
PMZ.5 Bio- CO2 NBio- CO2 Total CO2 CH4 Total			: : : : : :		
PM2.5 Total		0.0000	0.0000	0.0374	0.0374
Exhaust PM2.5		0.0000	0.0000	1.0500e- 003	1.0500e- 003
Fugitive PM2.5		0.0000	0.0000	0.0363	0.0363
PM10 Total		0.0000	0.0000	0.1381	0.1381
Exhaust PM10	fay	0.000.0	0.0000	1.1400 <del>c-</del> 003	1.1400e- 003
Fugitive PM10	lb/day	0.0000	0.0000	0.1369	0.1369
S02		0.0000	0.0000	1.4100e- 0.1 003	1.4100e- 0.
ဝ၁		0.0000	0.0000	0.5139	0.5139
ROG NOx CO SO2 Fugitive Exhaust PM10 PM10 Total		0.0000	0.0000	0.0375	0.0375
ROG		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000	0.0584	0.0584
	Category	Hauling	Vendor	Worker	Total

CO2e		0.0000	3,715.457	3,715.457 3
			က် 	ę,
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O	8		1.1920	1.1920
Total CO2	lb/day	0.0000	3,685,656 9	
NBio-CO2			0.0000 3,685.656 3,685.656	0.0000 3,685.656 3,685.656 9 9
Bio-CO2			0.0000	0.0000
PM2.5 Total		9.9307	1.8809	11.8116
Exhaust PM2.5		18.0663 0.0000 18.0663 9.9307 0.0000 9.9307	1.8809	1.8809
PM10 Fugitive Exhaust Total PM2.5 PM2.5		9.9307	             	9.9307
PM10 Total		18.0663	2.0445	20.1107
Exhaust PM10	lay	0.000.0	2.0445	2.0445
Fugitive PM10	lb/day	18.0663		18.0663
S02			0.0380	0.0380
NOx CO			21.1543	21.1543
357 W. A.S.			3.8882 40.4971 21.1543	3.8882 40.4971 21.1543 0.0380
ROG			3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

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Mitigated Construction Off-Site 3.3 Site Preparation - 2021

F					
C02e		0.0000	0.0000	140.8414	140.8414
NZO					
<b>第</b>	w.	0.000.0	0.0000	4.2200e- 003	4.2200e- 003
Fotal CO2	lb/day	0.0000 0.00000 0.00000	0.0000	140.7359	
VBio-CO2		0.000.0	0.000.0	140.7359 140.7359	140.7359 140.7359
Bio- CO2 NBio- CO2 Total CO2 CH4					
PM2.5 Total		0.0000	00000	0.0374	0.0374
Exhaust PM2.5		0.000.0	0.000.0	1.0500e- 003	1.0500e- 003
Fugitive PM2.5		0.0000	0.0000	0.0363	0.0363
PM10 Total		0.0000	0.0000	0.1381	0.1381
Exhaust PM10	lay	0.000.0	0.000.0	1.1400e- 003	1.1400e- 003
Fugitive PM10	ib/day	0.000.0	0.000.0	3.1369	0.1369
S02		0.000.0	0.0000	1.4100 <del>e</del> - 003	1.4100e- 003
co   co		0.0000	0.0000	0.5139 1.4100e- (	0.5139
XON		0.0000	0.0000	0.0584 0.0375	0.0375
ROG		0.0000 0.0000 0.0000	0.0000	0.0584	0.0584
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2021

CO2e		0.0000	6,055.613	6,055.613 4
N20				
CH4	ay		1.9428	1.9428
Total CO2	lb/day	0.000.0	6,007.043	6,007.043
Bio- CO2 NBio-CO2 Total CO2 CH4 N2O CO26			6,007.043 6,007.043 1.9428 4 <b>4</b>	6,007.043 6,007.043 1.9428 4 4
Bio- CO2				
PM2.5 Total		3.5965	1.8265	5.4230
Exhaust PM2.5		0.0000	1.8265	1.8265
Fugitive PM2.5		3.5965		3.5965
PM10 Total		8.6733	1.9853	10.6587
Exhaust PM10	lb/day	0.0000	1.9853	1.9853
Fugitive Exhaust PM10 PM10	Ib/c	8.6733		8.6733
SO2			0.0620	0.0620
00			30.8785	30.8785
NOX			4.1912 46.3998 30.8785 0.0620	4.1912         46.3998         30.8785         0.0620         8.6733
ROG			4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021

Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	156.4904	156.4904
OZN NZO		ö	00	156	156
CH4	<b>Xe</b>	0.0000	0.0000	4.6900e- 003	4.6900e- 003
Total CO2	.lb/day	0.0000	0.0000	156.3732 4.6900e- 003	156.3732 156.3732 4.6900e-
NBio-CO2		0.000.0	0.0000	156.3732	156.3732
Bio- CO2 NBio- CO2 Total CO2 CH4					
PM2.5 Total		0.000.0	0.0000	0.0415	0.0415
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	1.1700e- 003	1.1700e- 003
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000	0.0000	0.0404	0.0404
PM10 Total		0.0000	0.0000	0.1534	0.1534
Exhaust PM10	lb/day	0.0000	0.0000	1.2700 <del>e-</del> 003	1.2700e- 003
Fugitive PM10	JP/	0.0000	0.0000	0.1521	0.1521
S02		0.0000	0.0000	1.5700e- 003	1.5700e- 003
NOx CO SO2		0.0000	0.0000	0.5710	0.5710
1.3747.47		0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0417 0.5710 1.5700e- 003	0.0417 0.5710 1.5700e-
ROG		0.0000	0.0000	0.0649	0.0649
	Category	Hauling	Vendor	Worker	Total

Farance -	Maria de la Carta			
C02e		0.0000	6,055.613 4	6,055.613 4
N20			 	
CH4			1.9428	1.9428
otal CO2	Ibiday	0.000.0	,007.043 4	,007.043 4
Bio-CO2 T			6,007.043 6,007.043 4 4	,,007.043 6 4
Bio-CO2 NBio-CO2 Total CO2 - CH4			00000	0.0000 6,007.043 6,007.043 1.9428 4 4
PM2.5 Total		3.5965	1.8265	5.4230
PM10 Fugitive Exhaust PM2.5 Total PM2.5 PM2.5 Total		0.0000	1.8265	1.8265
Fugitive PM2.5		3.5965		3.5965
PM10 Total		8.6733	1.9853	10.6587
Exhaust PM10	ay.	8.6733 0.0000	1.9853	1.9853
Fugitive PM10>	/Ib/day	8.6733		8.6733
CO SO2 Fugitive PM10			0.0620	0.0620
03			30.8785	30.8785
ROG NOX			4.1912 46.3998 30.8785 0.0620	4.1912 46.3998 30.8785 0.0620
RoG			4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021

Mitigated Construction Off-Site

CO2e		0.0000	0.0000	156.4904	156.4904
NZO					
CH4	Ae	0.0000	0.0000	4.6900e- 003	4.6900e- 003
Total CO2	lb/day	0.000	0.0000	156.3732	156.3732 156.3732
NBio-CO2		0.000.0	0.000.0	156.3732	156.3732
Bio-CO2 NBio-CO2 Total-CO2 CH4					
PM2.5 Total		0.0000	0.0000	0.0415	0.0415
Exhaust PM2.5		0.0000 0.0000 0.0000 0.0000 0.0000	0.0000	1.1700e- 003	0.0404 1.1700e- 003
Fugitive PM2.5		0.0000	0.0000	0.0404	0.0404
PM10 Total		0.0000	0.000.0	0.1534	0.1534
Exhaust PM10	lb/day	0.0000	0.0000	1.2700e- 003	1.2700e- 003
Fugitive PM10	y <b>q</b> i	0.0000	0000	0.1521	0.1521
co sos		0.0000	0.0000	1.5700e- 0 003	1.5700e- 003
8		0.0000	0.0000	0.5710	0.5710
XON.		0.0000 0.0000 0.0000	0.0000 0.0000	0.0417	0.0649 0.0417 0.5710 1.5700e-
ROG		0.0000	0.0000	0.0649	0.0649
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2022

		_		
C02e		0.0000	6,060.015	6,060.015 8
N20				
CHA	ay		1.9442	1.9442
Total CO2	lb/day	0.000.0	6,011.410 5	6,011.410 5
NBio-CO2			6,011.410 6,011.410 1.9442 5 5	6,011.410 6,011.410 1.9442 5
Bio-CO2				
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4.		3.5965	1.5041	5.1006
Fugitive Exhaust PM2.5 PM2.5		0.000.0	1.5041	10.3082 3.5965 1.5041
Fugitive PM2.5		3.5965		3.5965
PM10 Total		8.6733	1.6349	10.3082
Exhaust PM10	iay	0.0000	1.6349	1.6349
Fugitive PM10	lb/day	8.6733		8.6733
S02			0.0621	0.0621
00			29.0415	29.0415
ROG NOx CO SO2			3.6248 38.8435 29.0415 0.0621	3.6248 38.8435 29.0415 0.0621
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2022
Unmitigated Construction Off-Site

13-47-128	9.1517	1		' <u>~</u>	1
CO2e		0.0000	0.0000	150.9813	150.9813
N2O				•	
CH4	lb/day	0.0000	0.0000	4.2400e- 003	4.2400e- 003
Total CO2	)/q].	0.0000 0.0000	0.0000	150.8754	150.8754
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000	0.0000	150.8754	150.8754
Bio-CO2			: : : : :		
t PM2.5 Total		0.0000	0.0000	0.0415	0.0415
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000	0.000.0	1.1300e- 003	1.1300e- 003
Fugitive PM2.5			0.0000	0.0404	0.0404
PM10 Total		0.0000 0.0000 0.0000	0.0000	0.1534	0.1534
Exhaust PM10	lb/day	0.0000	0.0000	1.2300e- 003	1.2300e- 003
Fugitive PM10	//GI	0.0000	0.0000	0.1521	0.1521
SOS		0.0000	0.0000	1.5100e- 0 003	1.5100e- 0 003
00		0.000 0.0000 0.0000	0.0000	0.5263	0.5263
×ON		0.0000	0.0000	0.0376	0.0376
ROG		0.0000	0.0000	0.0607	0.0607
	Category	Hauling	Vendor	Worker	Total

	<b>.</b>			
COZe		0.0000	6,060.015 8	6,060.015 8
N2O				
CH4	y		1.9442	1.9442
otal CO2	lb/day	0.0000	3,011.410 5	,,011.410 5
JBio-CO2 T			0.0000 6,011.410 6,011.410 1.9442	5,011.410
Bio- CO2 NBio- CO2 Total CO2 CH4.			00000	0.0000 6,011,410 6,011,410 1.9442 5
PM2:5 Total		3.5965	1.5041	5.1006
Exhaust PM2.5		0.0000	1.5041	1.5041
Fugitive PM2.5				3.5965
PM10 Total		0.0000 8.6733 3.5965	1.6349	1.6349 10.3082 3.5965
Exhaust PM10	(ga)	0.0000	1.6349	1.6349
Fugitive PM10	lb/day	8.6733		8.6733
<b>S</b> 02			0.0621	0.0621
လ			29.0415	29.0415
ROG NOx			3.6248 38.8435 29.0415	3.6248 38.8435 29.0415 0.0621
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2022
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	150.9813	150.9813
NZO				• • • • • • • • • • • • • • • • • • •	
CH4	lb/day************************************	0.0000	0.0000	4.2400e- 003	4.2400e- 003
Total CO2	)/g	0.0000 0.00000 0.00000	0.0000	150.8754	150.8754
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000	150.8754	150,8754
Bio-CO2			1 1 1 1 1		
f PM2.5 Total		0.000.0	0.0000	0.0415	0.0415
Exhaus PM2.5		0.0000 0.0000 0.0000	0.0000	1.1300e- 003	1.1300e- C
Fugitive PM2.5		0.0000	0.0000	0.0404	0.0404
PM10 Total		0.0000	0.000.0	0.1534	0.1534
ugitive Exhaust PM10 PM10	lb/day	0.0000	0.0000	1.2300e- 0 003	1,2300e- 003
Fugitive PM10	ygi.	0.000.0	0.0000	0.1521	0,1521
S02		0.0000	0.0000	3 1.5100e- 003	1.5100e- 003
. co soz		0.0000	0.000(	0.5263	0.5263
ROG NOX		0.0000 0.0000 0.0000	0.0000	0.0376	0.0376
ROG		0.0000	0.0000	0.0607	0.0607
	Category	Hauling	Vendor	Worker	Total

3.5 Building Construction - 2022

han saasa saasa		
CO2e	2,569.632 2	2,569.632 2
NZO		
CH4	0.6120	0.6120
Otal CO2	2,554.333 6	,554.333 6
VBio-CO2	2,554.333 2,554.333 0.6120 6 6	2,554.333 2,554.333 0.6120 6 6
Bio-CO2 NBio-CO2 Total CO2 CO4 N20 CO2e		
PM2.5 E	0.7612	0.7612
Exhaust PM2.5	0.7612 0.7612	0.7612
Fugitive Exhaust PM2.5 PM2.5		
PM10 Total	0.8090	0.8090
Exhaust PM10	0.8090 0.8090	0.8090
SO2. Fügifive Exhaust PM10 PM10 Ib/day.		
502.	0.0269	0.0269
8	16.3634	16.3634
XON	15.6156	1.7062 15.6156 16.3634
ROG	1.7062 15.6156 16.3634 0.0269	1.7062
Category	Off-Road	Total
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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

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3.5 Building Construction - 2022
Unmitigated Construction Off-Site

	Taria dela r				
CO2e		0.0000	3,902.138 4	6,046.800 0	9,948.938 4
N2O.					
CH4	b/day	0.000.0	0.2236	0.1697	0.3933
Bio-CO2 NBio-CO2 Total CO2 CH4	) <b>q</b> i	0.0000 0.0000	3,896.548 3,896.548 2 2	6,042.558 6,042.558 5	9,939.106 9,939.106 7
NBio-CO2		0.000.0	3,896.548 2	6,042.558 5	9,939.106 7
Bio- co2			 		
PM2.5 Total		0.0000	0.2873	1.6617	1.9490
Exhaust PM2.5		0.000.0	0.0237	0.0454	0.0691
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000 0.0000	0.2636	1.6163	1.8799
PM10 Total		0.0000	0.9404	6.1425	7.0828
Exhaust PM10	ib/day	0.0000	0.0248	0.0493	0.0741
Fugitive PM10	/qı		0.9155	6.0932	7800.7
		0.0000	0.0364	0.0607	0.0971
NOx CO SO2		0.0000	3.4341	1.5074 21.0801 0.0607	24.5142
XON		0.0000 0.0000 0.0000	0.4079 13.2032 3.4341	1.5074	2.8378 14.7106 24.5142 0.0971
ROG		0.0000	0.4079	2.4299	2.8378
	Category	Hauling	Vendor	Worker	Total

N2O CO2e		2,569.632 2	2,569.632 2
NZO			
CH4	íay	0.6120	0.6120
Total CO2	)/g	2,554.333 6	2,554.333 6
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 2,554.333 2,554.333 0.6120 6 6	0.0000 2,554.333 2,554.333 0.6120
Bio-CO2		0.0000	0.0000
t PM2.5 Total		0.7612 0.7612	0.7612
Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.7612	0.7612
Fugitive PM2.5			
PM10 Total		0.8090	0.8090
Exhaust PM10	lb/day	0.8090	0608'0
Fugitive PM10	/qլ		
S02		0.0269	0.0269
NOx CO		16.3634	16.3634
XON		1.7062 15.6156 16.3634	1.7062 15.6156 16.3634
ROG		1.7062	1.7062
	Safegory	Off-Road	Total
Î	Ü	Ö	

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3.5 Building Construction - 2022 Mitigated Construction Off-Site

T-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	The American				
C02e		0.0000	3,902.138	6,046.800	9,948.938 4
NZO			         	# 1 1 1 1 1	
C#4	(ay	0.000.0	0.2236	0.1697	0.3933
Total CO2	lb/day	0.0000 0.0000	3,896.548 2	6,042.558 6,042.558 5 5	9,939.106 9,939.106 7
Bio-CO2   NBio-CO2   Total-CO2   CH4		0.000.0	3,896.548 3,896.548 2 2	6,042.558 5	9,939.106 7
Bio-CO2			1 1 1 1 1	; ; ; ;	
PM2.5 Total		0.0000	0.2873	1.6617	1.9490
Exhaust PM2.5		0.0000	0.0237	0.0454	0.0691
Fugitive PM2.5		0.000.0	0.2636	1.6163	1.8799
PM10 Total		0.000.0	0.9404	6.1425	7.0828
Exhaust PM10	iay	0.0000	0.0248	0.0493	0.0741
Fugitive Exhaust PM10 PM10 PM10 Total	lb/day	0.0000	0.9155	6.0932	7.0087
S02		0.0000	0.0364	0.0607	1260.0
တ		0.0000	3.4341	21.0801 0.0607	24.5142
ΧÓΝ		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.4079 13.2032 3.4341 0.0364	1.5074	2.8378 14.7106 24.5142
ROG		0.000.0	0.4079	2.4299	2.8378
	Category	Hauling	Vendor	Worker	Total

## 3.5 Building Construction - 2023

3		
	2,570.406	2,570.406 1
ÁE:	0.6079	0.6079
P/qt	2,555.209	2,555.209
	2,555.209	2,555.209 2,555.209 0.6079 9
	0.6584	0.6584
	0.6584	0.6584
	7669.0	0.6997
ay	0.6997	0.6997
. Ib/d		
	0.0269	0.0269
	16.2440	16.2440
	14.3849	1.5728 14.3849 16.2440 0.0269
	1.5728	1.5728
Category	Off-Road	Total
	'Tub'day	1.5728 14.3849 16.2440 0.0269 0.6997 0.6997 0.6584 0.6584 7.255.209 2.555.20

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

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3.5 Building Construction - 2023
Unmitigated Construction Off-Site

8" "Car 50 5					
C02e		0.0000	3,778.830 0	5,825.225 4	9,604.055 4
N2O				 	
CH.	â	0.000.0	0.1982	0.1529	0.3511
Total CO2	lb/day	0.0000 0.0000 0.0000	3,773.876 2	5,821.402 8	9,595.279 0
VBio-CO2		0.0000	3,773.876 3,773.876 2 2	5,821.402 5,821.402 8 8	9,595.279 9,595.279 0 0
Bio-CO2 NBio-CO2 Total CO2 CH4					-
PM2.5 Total		00000	0.2747	1.6604	1.9350
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0111	0.0441	0.0552
Fugitive Exhaust PM2.5 PM2.5		0.0000	0.2636	1.6163	1.8799
PM10 Total		0.0000	0.9271	6.1411	7.0682
Exhaust PM10	iay	0.0000	0.0116	0.0479	0.0595
CO SO2 Fugitive Exhaust PM10	lb/day	0.0000	0.9156	6.0932	7.0088
soz		0.000.0	0.0352	0.0584	0.0936
ဝ၁		0.0000	3.1014	1.3628 19.4002 0.0584	22.5017
NOX		0.0000	0.3027 10.0181 3.1014	1.3628	2.5807 11.3809 22.5017
ROG		0.0000 0.0000 0.0000	0.3027	2.2780	2.5807
	Category	Hauling	Vendor	Worker	Total

CO2e		2,570.406 1	2,570.406 1
N20			
CH4	\   \a	0.6079	6/09'0
Total CO2	/lp/day	2,555.209 9	2,555.209 9
VBio- CO2		2,555.209	0.0000 2,555.209 2,555.209 0.6079 9
Bio- CO2   NBio- CO2   Total CO2   CFH4   N2O		0.0000 2,555.209 2,555.209 0.6079 9 9	0.000
PM2.5 Total		0.6584	0.6584
Exhaust PM2.5		0.6584	0.6584
Fugitive Exhaust PM2.5 PM2.5			
PM10 Total		0.6997	0.6997
ugitive Exhaust PM10 PM10	lay	0.6997	0.6997
Fugitive PM10	lb/day		
S02		0.0269	0.0269
CO		16.2440	16.2440
NOX		1.5728 14.3849 16.2440 0.0269	1.5728 14.3849 16.2440 0.0269
RoG		1.5728	1.5728
	Category	Off-Road	Total
36 T	7 - 20 25 24 20 3 2 4 4 5		

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

C02e		0.0000	3,778.830 0	5,825.225 4	9,604.055 4
N2O					
CFF4	ay	0.0000	0.1982	0.1529	0.3511
Total CO2	, ib/day	0.000.0	3,773.876 2	5,821.402 8	9,595.279 0
Bio-CO2 NBio-CO2 Total CO2		0.000.0	3,773.876 3,773.876 2 2	5,821.402 5,821.402 8	9,595.279 0
Bio-C02					
PM2.5 Total		0.000.0	0.2747	1.6604	1.9350
Exhaust PM2.5		0.000.0	0.0111	0.0441	0.0552
Fugitive PM2.5		0.0000 0.0000	0.2636	1.6163	1.8799
PM 10 Total		0.0000	0.9271	6.1411	7.0682
Exhaust PM10	lb/day	0.0000	0.0116	0.0479	0.0595
Fugitive PM10	. Ib/o	0.000.0	0.9156	6.0932	7.0088
S02		0.0000	0.0352	0.0584	0.0936
ထ		0.0000	3.1014	1.3628 19.4002	22.5017
NOx		0.0000 0.0000 0.0000	10.0181	1.3628	2.5807 11.3809 22.5017 0.0936
ROG		0.0000	0.3027	2.2780	2.5807
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2023

	B to the state			
CO2e		2,225.433 6	0.0000	2,225.433 6
N2O				
P. 2	W.	0.7140		0.7140
Total CO2	lb/day	2,207.584	0.0000	2,207.584
NBio-CO2		2,207.584 2,207.584 0.7140	             	2,207.584 2,207.584 0.7140
Bio- CO2				
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4.		0.4694	0000.0	0.4694
Exhaust PM2.5		0.4694	0.0000	0.4694
PM10 Fugitive Exhaust Total PM2.5 PM2.5			   	
PM10 Total		0.5102	0.0000	0.5102
Exhaust PM10	ay	0.5102	0.000.0	0.5102
Fugitive PM10	lb/day			
S02		0.0228		0.0228
CO SO2 Fugitive Exhaust PM10 PM10		14.5842		14.5842
ROG NOx		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842 0.0228
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2023 Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	109.0866	109.0866
NZO					
CH4	3%	0.0000	0.000.0	2.8600e- 003	2.8600e- 003
Total CO2	lb/day	0.000.0	0.0000	109.0150	109.0150
VBio- CO2		0.0000	0.000.0	109.0150 109.0150 2.8600e-	109.0150 109.0150
Bio-CO2			L		
PMZ.5 Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.000.0	0.0311	0.0311
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000 0.0000 0.0000	0.0000	8.3000e- 004	8.3000e- 004
Fugitive PM2.5		0.0000	0.0000	0.0303	0.0303
PM10 Total		0.0000	0.0000	0.1150	0.1150
Exhaust PM10	lb/daý	0.0000	0.0000	9.0000e- 004	9.0000e- 004
Fugitive PM10	JQI	0.000.0	0.0000	0.1141	0.1141
S02		0.0000	0.0000	0.3633 1.0900e- 003	0.3633 1.0900e- 003
CO CO		0.0000	0.0000	0.3633	0.3633
XON		0.0000 0.0000 0.0000 0.0000	0.000 0.0000	0.0255	0.0255
ROG		0.0000	0.0000	0.0427	0.0427
	Category	Hauling	Vendor	Worker	Total

W. 50 - 75	The page of the	T		r.
CO2e		2,225.433 6	0.0000	2,225.433 6
NZO				
CH4	À	0.7140	† • • • • • • • • • • • • • • • • • • •	0.7140
Total CO2	lb/day	2,20 <b>7</b> .584	0.0000	,207.584
VBio-CO2		0.0000 2,207.584 2,207.584 0.7140	       	0.0000 2,207.584 2,207.584 0.7140
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e		0.0000		0.0000
PM2.5 Total		0.4694	0000.0	0.4694
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.4694	0.000.0	0.4694
Fugitive. PM2.5			         	
PM10 Total		0.5102	0.0000	0.5102
Fugitive Exhaust PM10 PM10	lay	0.5102 0.5102	0.0000	0.5102
Fugitive PM10	ip/qa/			
S02		0.0228		0.0228
S		14.5842		14.5842
XON		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842 0.0228
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2023
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	109.0866	109.0866
N2O C		°	0	10	2
N		ļ		 	
CH4	lb/day.	0.0000	0.0000	2.8600 003	2.8600e- 003
Total CO2	qı	0.0000	0.0000	109.0150 2.8600e- 003	109.0150
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 0.0000	0.0000	109.0150	109.0150 109.0150
Bio- CO2					
PM2.5. Total		0.0000	0.000.0	0.0311	0.0311
Exhaust PM2.5		0.0000	0.0000	8.3000e- 004	8.3000e- 004
Fugitive PM2.5		0.0000	0.0000	0.0303	0.0303
PM10 Total		0.0000	0.0000	0.1150	0.1150
Exhaust PM10	lb/day	0.0000 0.0000	0.0000	9.0000e- 004	9.0000e- 004
Fugitive PM10	1b/	0.0000	0.0000	).1141	0.1141
co soz		0.0000	0.0000	1.0900e- ( 003	1.0900e- 003
14354		0.0000	0.0000	0.3633	0.3633
NOx		0.0000 0.0000 0.0000	0.0000	0.0255	0.0255
ROG		0.0000	0.0000	0.0427	0.0427
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2024

Figure 1	Indiction of	/C	1	Lo
C02e		2,225.396 3	0.0000	2,225.396 3
N29 CO2e				
	, a	0.7140		0.7140
Total CO2	lb/day	2,207.547 2	0.0000	2,207.547
NBfo- CO2		2,207.547 2,207.547 0.7140 2 2 2	           	2,207.547 2,207.547 2 2
Bio- CO2			• • • • • •	
PM2.5 Bio- CO2 NBio- CO2 Total CO2 CH4. Total		0.4310	0.000.0	0.4310
Exhaust PM2.5		0.4310	0.0000	0.4310
Fugitive Exhaust PM2.5 PM2.5				
PM10 F Total		0.4685	0.0000	0.4685
Fugitive Exhaust PM10 PM10	lay	0.4685 0.4685	0.0000	0.4685
Fugitive PM10	lb/day			
S02		0.0228		0.0228
ငဝ		14.6258		14.6258
ROG NOX CO		9.5246 14.6258 0.0228		0.9882 9.5246 14.6258 0.0228
ROG		0.9882	0.0000	0.9882
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2024
Unmitigated Construction Off-Site

Table 7	<b>.</b>				
C02e		0.0000	0.0000	105.6992	105.6992
N2O CO2e					
CH4	<u>.</u>	0.0000	0.0000	2.6300e- 003	2.6300e- 003
Total CO2	lb/day	0.0000 0.0000	0.000.0	105.6336	105.6336
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	105.6336	105.6336
Bio-CO2				<b>L</b>	
PM2.5 Total		0000.0	0000.0	0.0311	0.0311
Exhaust PM2.5		0.0000	0.000.0	8.1000e- 004	8.1000e- 004
Fugitive PM2.5		0.0000 0.0000	0.0000	0.0303	0.0303
PM10 Total		0.000 0.0000	0.000.0	0.1150	0.1150
Exhaust PM10	lay	0.000.0	0.0000	8.8000e- 004	8.8000e- 004
Fugitive PM10	Ibíday	0.0000	0.000.0	0.1141	0.1141
S02		0.0000	0.000.0	1.0600e- 003	1.0600e- 003
3. 12.5.13.7		0.0000 0.0000 0.0000	0.0000	0.3384 1.0600e- 003	0.3384
CO XON		0.0000	0.0000	0.0233	0.0233
ROG		0.0000	0.0000	0.0403	0.0403
	Category	Hauling	Vendor	Worker	Total

gagaga a Sa	I of of the	F.:		1
CO2e		2,225.396 3	0.0000	2,225.396 3
N20				
CH4	33	0.7140	; ! ! ! ! !	0.7140
Total CO2	lb/day	2,207.547 2	0.0000	2,207.547
NBio- CO2		2,207.547 2	             	2,207.547
Bio-CO2 NBio-CO2 Total CO2		0.0000 2,207.547 2,207.547 0.7140 2 2		0.0000 2,207.547 2,207.547 0.7140
PM2.5 Total		0.4310 0.4310	0000.0	0.4310
Exhaust PM2.5		0.4310	0.0000	0.4310
Fugitive Exhaust PM2:5 PM2:5				
PM10 Total		0.4685	0.000.0	0.4685
Exhaust PM10	lay	0.4685 0.4685	0.000.0	0.4685
Fugitive PM10	lb/day			
<b>S</b> 02		0.0228		0.0228
CO SO2		14.6258		14.6258
ROG NOx		0.9882 9.5246 14.6258		9.5246 14.6258 0.0228
ROG		0.9882	0.0000	0.9882
	Category	Off-Road	Paving	Total

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

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3.6 Paving - 2024
Mitigated Construction Off-Site

To See See To	ESSERVE SE		,		T
C02e		0.0000	0.0000	105.6992	105.6992
NZO					
CH4	ay	0.0000	0.0000	2.6300e- 003	2.6300e- 003
Total CO2	Ib/day	0.0000 0.0000	0.0000	105.6336	105.6336 105.6336 2.6300e-
Bio-CO2 NBio-CO2 Total CO2		0.0000	0.0000	105.6336	105.6336
Bioco2					
PM2.5 Total		0.0000	0.0000	0.0311	0.0311
Exhaust PM2.5		0.000.0	0.000.0	8.1000e- 004	8.1000e- 004
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000	0.000.0	0.0303	0.0303
		0.0000	0.000.0	0.1150	0.1150
Exhaust PM10	lb/day	0.0000	0.0000	8.8000e- 004	8.8000e- 004
Fugitive PM10	)(g)	0.0000	0.0000	0.1141	0.1141
S02		0.0000	0.0000	1.0600e- 003	1.0600e- 003
လ		0.0000	0.0000 0.0000	0.0233 0.3384 1.0600e- 003	0.3384 1.0600e- 003
ROG NOx CO SO2 Fugitive		0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000	0.0233	0.0233
ROG		0.0000	0.0000	0.0403	0.0403
	Category	Hauling	Vendor	Worker	Total

## 3.7 Architectural Coating - 2024

5tal CO2 CH4 N2O CO2e	lb/day	0.0000	81.4481 0.0159 281.8443	81.4481 0.0159 281.8443
Bio-CO2 NBio-CO2 Total CO2 CH4			281.4481 281.4481	281.4481 281.4481
PM2.5 Total		0.0000	0.0609	0.0609
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000	0.0609	0.0609
Fugitive PM2.5			  -  -  -  -  -  -	
PM10 Total		0.0000	0.0609	0.0609
Exhaust PM10	lb/day	0.0000	0.0609	0.0609
Fugitive PM10	q			
S02			1.8101 2.9700e- 003	2.9700e- 003
NOX CO			1.8101	236,5923 1.2188 1.8101 2.9700e-
XOX V			0.1808 1.2188	1.2188
ROG		236.4115	0.1808	236.5923
	Category	Archit, Coating = 236.4115	Off-Road	Total

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

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

C02e		0.0000	0.0000	1,127.458	1,127.458
N20					
CH4	ay	0.0000	0.0000	0.0280	0.0280
Total CO2	(b/day	0.0000 0.00000 0.00000	0.0000		
NBio- CO2		0.0000	0.0000	1,126.758 1,126.758 3 3	1,126.758 1,126.758 3 3
Bio- CO2 NBio- CO2 Total CO2 CH4					
PM2.5 B		0.000.0	00000	0.3315	0.3315
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0000	8.6800e- 003	8.6800e- 003
Fugitive PM2.5		0.0000	0.0000	0.3229	0.3229
PM10 Total		0.0000	0.000.0	1.2266	1.2266
Exhaust PM10	lb/day	0.0000	0.0000	9.4300e- 003	9.4300e- 003
Fugitive PM10	)gr	0.0000	0.000.0	1.2171	1.2171
205		0.0000	0.0000	0.0113	0.0113
သ		0.0000	0.0000	3.6098	3.6098
NOX		0.0000	0.0000	0.2481	0.4296 0.2481 3.6098
RoG		0.0000 0.0000 0.0000 0.0000	0.0000	0.4296	0.4296
	Category	Hauling	Vendor	Worker	Total

- 35, 25 A 1.25	Paris is			
CO2e		0.0000	281.8443	281.8443
NZO				
CH4	lay		0.0159	0.0159
Total CO2	lb/day	0.000	281.4481	281.4481
Bio-CO2 NBio-CO2 Total CO2 CH4			0.0000 281.4481 281.4481 0.0159	0.0000 281.4481 281.4481
Bio-CO2			0.0000	0.0000
PM2.5 Total		0.0000	6090.0	0.0609
Exhaust PM2.5		0.000.0	0.0609	6090'0
Fugitive PM2.5				
PM10 Total		0.000.0	6090.0	6090'0
Exhaust PM10	lay	0.0000 0.0000	0.0609	0.0609
Fugitive PM10	lb/day			
S02			2.9700e- 003	2.9700e- 003
8			1.8101	1.8101 2.9700e-
NOX			1.2188	236.5923 1.2188
ROG		236.4115	0.1808 1.2188 1.8101 2.9700e-	236.5923
	Category	Archit. Coating 236.4115	Off-Road	Total

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

3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

	45 S 34		:	. w	ω
COZe		0.0000	0.0000	1,127.458	1,127.458 3
NZO				 	
СН4	ay.	0.0000	0.0000	0.0280	0.0280
Total CO2	kep/ql	0.0000 0.0000	0.000.0	1,126.758 3	1,126.758 3
Bio- CO2 NBio- CO2 Total CO2		0.0000	0.0000	1,126.758 1,126.758 3 3	1,126.758
			1 1 1 1 1 1	i ; ; ;	
PM2.5 Total		0.000.0	0.000.0	0.3315	0.3315
Exhaust PM2.5		0.000.0	0.0000	8.6800e- 003	8.6800e- 003
Fugitive Exhaust PM2.5 PM2.5		0.0000 0.0000	0.0000	0.3229	0.3229
PM10 Total		0.0000	0.000.0	1.2266	1.2266
Exhaust PM10	lb/day	0.0000	0.0000	9.4300e- 003	9.4300e- 003
Fugitive PM10	)QI	0.0000	0.0000	1.2171	1.2171
S02		0.0000	0.0000	0.0113	0.0113
ဝ၁		0.0000 0.0000 0.0000	0.000.0	3.6098	3.6098
XON		0.0000	0.0000 0.0000	0.2481	0.4296 0.2481
ROG		0.0000	0.0000	0.4296	0.4296
	Category	Hauling	Vendor	Worker	Total

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

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

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Bio- CO2	50,306.60 50,306.60 2.1807 50,361.12 34 34 08	50,306.60 50,306.60 2.1807 50,361,12 34 34 08
U. 1985-22 P. 18-18-18-18-18-18-18-18-18-18-18-18-18-1	34 34 34 2.1807	50,306.60 2.1807 34
o- CO2   Total CO2   CH4	34 34 34 34 34 34 34 34 34 34 34 34 34 3	50,306.60 2.1807 34
o- CO2 Total CO2	34 306.60 50,306.60	50,306.60
o- coz	34	- <b> </b>
8	್ಷ	50,306.60
Bio-CO2		
PM2.5 Total	12.6070	12.6070
Exhaust PM2.5	9592 0.3360 46.2951 12.2950 0.3119 12.6070	.9592 0.3360 46.2951 12.2950 0.3119 12.6070
Fugitive PM2:5	12.2950	12.2950
PM10 Total	46.2951	46.2951
Exhaust PM10. Jay	0.3360	0.3360
Fugitive PM10	45.9592	45.9592
S02	0.4917	0.4917
0	114.8495	114.8495
203 00	9.8489 45.4304 114.8495 0.4917 45.	9.8489 45.4304 114.8495 0.4917 45.
ROG	9.8489	9.8489
Category	Mitigated	Unmitigated

## 4.2 Trip Summary Information

	Aver	Average Daily Trip Rate	ate	Unmitigated	Mitigated
Land Use	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

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

	þý							
ж <b>е</b> %	Pass-by	8	8	4	43	4	44	11
Trip Purpose %	Diverted	11	11.	19	20	38	18	35
	Primary	98	98	77	37	28	88	54
	H-W or C-W H-S or C-C H-O or C-NW	40.60	40.60	19.00	19.00	19.00	19.00	19.00
, Iпр %	H-S or C-C	19.20	19.20	48.00	72.50	61.60	69.00	64.70
	H-W or C-W	40.20	40.20	33.00	8.50	19.40	12.00	16.30
	or C-C H-O or C-NW	8.70	8.70	9.90	6.90	9.90	6.90	9.90
Miles	H-S or C-C	5.90	5.90	8.40	8.40	8.40	8.40	8.40
	H-W or C-W H-S	14.70	14.70	16.60	16.60	16.60	16.60	16.60
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down	Hotel	Quality Restaurant	Regional Shopping Center

#### 4.4 Fleet Mix

	•												
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Regional Shopping Center
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088 0.	Quality Restaurant
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	Hotel
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.044216	0.543088	High Turnover (Sit Down Restaurant)
0.000821	0.000712	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	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.209971	0.543088 0.044216 0.20	0.543088	General Office Building
0.000821	0.000712	0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	0.543088 0.044216 0.209971	0.044216	0.543088	Apartments Mid Rise
0.000821	0.000712	0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	0.001817	0.002613	0.033577	0.021166	0.006332	0.014033	0.116369	9971	0.044216	0.543088 0.044216 0.20	Apartments Low Rise
MH	SINS	LHD1 LHD2 MHD HHD OBUS UBUS MCY SBUS	SNBN	SNBO	ННО	MHD	LHD2	LHD1	MDV		LDA LDT1 LDT2	LDA	Land Use

#### 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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

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	ROG	13/1/20/2003	NOX CO	S02	Fugitive PM10	Fugitive Exhaust PM10 PM10	PM10 Total	PM10 Fugitive Exhaust Total PM2.5 PM2.5	· Exhaust · PM2.5	PM2.5 Total	Bio-CO2	NBio- CO2	Bio-CO2 NBio-CO2 Total CO2 CH4 N2O	CH4	N20	CO2e
Category					JP/c	//day							lb/di	l de		
NaturalGas Mitigated	0.7660	0.7660 6.7462 4.2573 0.0418	4.2573	0.0418		0.5292 0.5292	0.5292		0.5292 0.5292	0.5292		8,355.983 2	8,355,983 8,355,983 0.1602 0.1532 8,405.638	0.1602	0.1532	8,405.638 7
NaturalGas Unmitigated	0.7660	0.7660 6.7462 4.2573 0.0418	6.7462 4.2573 0.0418	0.0418		0.5292	0.5292		0.5292	0.5292	; ; ; ;	8,355.983 2	8,355,983 8,355,983 0.1602 0.1532 8,405.638 2 2 2 7	0.1602	0.1532	8,405.638

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

5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGa s Use	ROG	NOX	<u></u>	S02	Fugitive PM10	Exhaust PM10	PM10 Fotal	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio- CO2	Bio-CO2 NBio-CO2 Total CO2	CH4	NZO	C02e
Land Use	квти/уг					lb/day	tay							lb/day	lay		
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		4,209.916 4	4,209.916	0.0807	0.0772	4,234.933 9
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	1 1 1 1 1	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	 	2,677.634	2,677.634 2	0.0513	0.0491	2,693.546
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	1 1 1 1 1	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
Total		0.7660	6.7463	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7

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

5.2 Energy by Land Use - NaturalGas

Mitigated

COZe		132.4486	4,234.933 9	151.8884	2,693.546	564.4782	598.5658	29.7778	8,405.638 7
NZO		2.4100e- 003	0.0772	2.7700e- 003	0.0491	0.0103	0.0109	5.4000e- 004	0.1532
CH4	lb/day	2.5200e- 003	0.0807	2.8900e- 003	0.0513	0.0108	0.0114	5.7000e- 004	0.1602
Total CO2	)BI	131.6662 131.6662	4,209.916 4,209.916 4 4	150.9911	2,677.634 2	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2 NBio-CO2 Total CO2		131.6662	4,209.916 4	150.9911	2,677.634 2	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2			 	 		1 1 1 1 1	 		
PM2.5 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM2.5		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700 <del>e-</del> 003	0.5292
Fugitive PM2.5									
PIM10 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM10	lb/day	8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM10	<b>/9</b> 1								
S02		6.6000e- 004	0.0211	7.5000e- 004	0.0134	2.8100e- 003	2.9800e- 003	1.5000e- 004	0.0418
00		0.0439	1.4033	0.1057	1.8743	0.3928	0.4165	0.0207	4.2573
×ON		0.1031	3.2978	0.1258	2.2314	0.4676	0.4959	0.0247	6.7463
ROG		0.0121	0.3859	0.0138	0.2455	0.0514	0.0545	2.7100 <del>c.</del> 003	0.7660
NaturalGa s Use	kBTU/yr	1.11916	35.7843	1.28342	22.7599	4.76972	5.05775	0.251616	
	Land Use	Apartments Low Rise	Apartments Mid Ris <b>e</b>	General Office Building	er (Sit urant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

6.0 Area Detail

6.1 Mitigation Measures Area

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

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1.5974 1.5974 0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 0.3300 18,259.11 CO2e NZO 0.0000 18,148.59 18,148.59 0.4874 50 50 CH4 lb/day Total CO2 NBio-CO2 Bio-CO2 1.5974 PM2.5 Total 1.5974 Exhaust PM2.5 Fugitive PM2.5 1.5974 PIM10 Total 1.5974 1.5974 Exhaust PM10 1.5974 lb/day Fugitive PM10 Unmitigated 30.5020 15.0496 88.4430 0.0944 15.0496 88.4430 0.0944 . S02 ္ပ χοΝ 30.5020 ROG Mitigated Category

6.2 Area by SubCategory

Unmitigated

Tale transfer	Kanada sa sa		_			
CO2e		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
NZO				0.3300		0.3300
CH4	λe			0.3450	0.1424	0.4874
Total CO2	lb/day	0.000.0	0.0000	18,000.00 00	148.5950	18,148.59 50
NBio- CO2				18,000.00 18,000.00 00 00	148.5950	18,148.59 18,148.59 50 50
Bio-CO2 NBio-CO2 Total CO2			1 1 1 1	0.0000		0.000
PM2.5 Total		0000.0	0.000	1.1400	0.4574	1.5974
Exhaust PM2.5		0.000.0	0.000.0	1.1400	0.4574	1.5974
Fugitive PM2.5			             	<b>;</b>             		
PM10 Total		0.000.0	0.0000	1.1400	0.4574	1.5974
Exhaust PM10	lay	0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	lb/day					
S02				0.0900	4.3600e- 003	0.0944
ဝ၁				6.0000	82.4430	88.4430
XON				14.1000	0.9496	15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

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

6.2 Area by SubCategory

Mitigated

	Same.	Ι –	:	: 9		<b>I</b> -
COZe		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
NZO				0.3300		0.3300
CH4	jay.			0.3450	0.1424	0.4874
Total CO2	(lb/day	0.0000	0.000.0	18,000.00	148.5950	18,148.59 50
Bio-CO2 NBio-CO2 Total CO2 CH4				18,000.00 18,000.00 00 00	148.5950	18,148.59 50
Bio-CO2			1 1 1 1 1	0.0000	1 1 1 1 1 1	0.000.0
PM2.5 Total		0.0000	0.0000	1.1400	0.4574	1.5974
Exhaust PM2.5		0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM2.5				           		
PM10 Total		0.0000	0.0000	1.1400	0.4574	1.5974
Exhaust PM10	lb/day	0.000.0	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	)QI					
SO2 Fu				0.0900	4.3600e- 003	0.0944
ဝ၁				6.0000	82.4430	88.4430
XON				14.1000 6.0000	0.9496	30.5020 15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

#### 7.0 Water Detail

## 7.1 Mitigation Measures Water

#### 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

#### 9.0 Operational Offroad

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## 10.0 Stationary Equipment

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

## Fire Pumps and Emergency Generators

Equipment Type Hours/Day Hours/Year Horse Power Eactor Fuel Type
Boilers
Equipment Type: Heat Input/Day Heat Input/Day Equipment Type
User Defined Equipment

#### 11.0 Vegetation

Number

Equipment Type

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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	20.00	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

Orbanization	Urban	Wind Speed (m/s)	7.7	Precipitation Freq (Days)	33
Climate Zone	ത			Operational Year	2028
Utility Company	Southern California Edison	<b>-</b>			
CO2 Intensity (Ib/MWhr)	702.44	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

# 1.3 User Entered Comments & Non-Default Data

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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	
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
tbiTripsAndVMT	WorkerTripLength	14.70	10.00
tbiTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehideTrips	ST_TR	7.16	6.17
tblVehideTrips	ST_TR	6:39	3.87
tbl/ehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

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3.75	63.99	10.74	6.16	4.18	69.0	78.27	3.20	57.65	6.39	5.83	4.13	6.41	65.80	3.84	62.64	9.43	0.00	0.00	0.00	00.0	00.0	0.00	0.00	0.00
8.19	94.36	49.97	6.07	5.86	1.05	131.84	5.95	72.16	25.24	6.59	6.65	11.03	127.15	8.17	89.95	42.70	1.25	48.75	1.25	48.75	25.00	25.00	09.666	09.666
ST_TR	ST_TR	ST_TR	SU_TR	SU_TR	SU_TR	SU_TR	SU_TR	SU_TR	SU_TR	WD_TR	NumberCatalytic	NumberCatalytic	NumberNoncatalytic	NumberNoncatalytic	WoodstoveDayYear	WoodstoveDayYear	WoodstoveWoodMass	WoodstoveWoodMass						
tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tblVehideTrips	tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tblVehicleTrips	tbIVehicleTrips	tblVehicleTrips	tbIVehicleTrips	tbIVehicleTrips	tblVehicleTrips	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves	tblWoodstoves

## 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** 

CO2e		6,203.018 6	12,060.60 13	11,734.44 97	2,324.962 7	12,060.60 13
NZO		0.0000	0.0000	0.0000	0.0000	0.000
СН4	(b/day	1.9472	1.9482	0.9617	0.7164	1.9482
Total CO2	)/QI	6,154.337 7	12,035.34 12,035.34 40 40	11,710.40 11,710.40 80 80	2,307.051 7	12,035.34 40
Bio- CO2 NBio- CO2 Total CO2		0.0000 6,154.337 6,154.337 1.9472	12,035.34 40	11,710.40 80	2,307.051 7	12,035.34 40
Bio- CO2		0.0000	0.0000	0.0000	0.0000	0.000
PM2.5 Total		11.8490	5.1421	2.5940	0.4621	11.8490
Exhaust PM2.5		9.9670 1.8820 11.8490	1.5052	0.7142	0.4319	1.8820
Fugitive PM2.5		9.9670	3.6369	1.8799	0.3229	9.9670
PM10 Total		20.2488	10.4616	7.7685	1.2875	20.2488
Exhaust PM10	fay	8.2032 2.0456	1.6361	0.7598	0.4694	2.0456
Fugitive PM10	lb/day	18.2032	8.8255	7.0088	1.2171	18.2032
S02		0.0635	0.1195	0.1162	0.0238	0.1195
o: .	, in the second	31.4068	39.6338	37.5031	14.9372	39.6338
NOX		4.2621 46.4460 31.4068 0.0635	38.8851	25.8648	9.5503	237.0656 46.4460
ROG		4.2621	4.7966	4.3939	237.0656	237.0656
	Year	2021	2022	2023	2024	Maximum

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

2.1 Overall Construction (Maximum Daily Emission)

### Mitigated Construction

CO2e		6,203.018 6	12,060.60 13	11,734.44 97	2,324.962	12,060.60 13
NZO		0.0000 6,203.018 6	0.0000	0.0000	0.0000	0.0000
CH4	-lb/day	1.9472	1.9482	0.9617	0.7164	1.9482
Total CO2	/gl	6,154.337 7	12,035.34 40	11,710.40 (	2,307.051 2,307.051 7	12,035.34 12,035.34 40 40
Bio- CO2 NBio- CO2 Total CO2		0.0000 6,154.337 6,154.337 1.9472	12,035.34 40	11,710.40 80	2,307.051 7	12,035.34 40
Bio-CO2		0.0000	0000.0	0.000	0.000	0.0000
PM2.5 Total		11.8490	5.1421	2.5940	0.4621	11.8490
Exhaust PM2:5		1.8820	1.5052	0.7142	0.4319	1.8820
Fugitive PM2.5		9.9670	3.6369	1.8799	0.3229	0/96'6
PM10 Total		20.2488	10.4616	7.7685	1.2875	20.2488
Exhaust PM10	lb/day	2.0456	1.6361	0.7598	0.4694	2.0456
Fugitive PM10	/QI	18.2032	8.8255	7.0088	1.2171	18.2032
205		0.0635	0.1195	0.1162	0.0238	0.1195
8		31.4068	39.6338	37.5031	14.9372	39.6338
×ON		4.2621 46.4460 31.4068	38.8851	25.8648	9.5503	46.4460
ROG		4.2621	4.7966	4.3939	237.0656	237.0656
	Year	2021	2022	2023	2024	Maximum

CO2e	0.00
.N20	0.00
CH4	0.00
Total CO2	0.00
Bio-CO2 NBio-CO2 Total CO2	0.00
Bio- CO2	0.00
PM2.5 Total	0.00
Exhaust PM2.5	0.00
Fugitive PM2.5	0.00
PM10 Total	0.00
Exhaust PM10	0.00
Fugitive PM10	0.00
S02	0.00
00	0.00
NOx	0.00
Roc	0.00
	Percent Reduction

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

2.2 Overall Operational Unmitigated Operational

CO2e		259.11 92	8,405.638	47,972.68 39	637.44 17
0		18,	r	47,9	74,0
NZO		0.3300	0.1532		0.4832 74,637.44 17
CH4	lb/day.	0.4874	0.1602	2.1953	2.8429
Total CO2	) <b>(g</b> )	18,148.59 50	8,355.983 8,355.983 2 2	47,917.80 47,917.80 05 05	74,422.37 87
NBio-CO2		0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 50	8,355.983 2	47,917.80 05	0.0000 74,422.37 74,422.37 87 87
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0			0.0000
PM2.5 Total		1.5974	0.5292	12.6083	14.7349
Exhaust PM2.5		1.5974 1.5974	0.5292	0.3132	2.4399
Fugitive PM2.5				12.2950	48.4231 12.2950
PM10 Total		1.5974	0.5292	46.2965	48.4231
Exhaust PM10	lay	1.5974	0.5292	0.3373	2.4640
Fugitive PM10	lb/day			45.9592	45.9592
S02		0.0944	0.0418	0.4681	0.6043
တ		88.4430	4.2573	110.0422	202.7424
ROG NOx CO SO2.		30.5020 15.0496 88.4430 0.0944	6.7462	45.9914 110.0422 0.4681	40.7912 67.7872 202.7424
ROG		30.5020	0.7660	9.5233	40.7912
	Category	Area	Energy	Mobile	Total

### Mitigated Operational

COZe		0.3300 18,259.11 92	8,405.638 7	47,972.68 39	0.4832 74,637.44 17
NZO		0.3300	0.1532		0.4832
CH4	ay	0.4874	0.1602	2.1953	2.8429
Total CO2	lb/day	18,148.59 50	8,355.983 2	47,917.80 05	74,422.37 87
Bio- CO2 NBio- CO2 Total CO2		0.0000 18,148.59 18,148.59 50 50	8,355.983 18,355.983 2 2	47,917.80 47,917.80 05 05	74,422.37 74,422.37 87 87
		0.0000			0.0000
PM2.5 Total		1.5974	0.5292	12.6083	14.7349
Exhaust PM2.5		1.5974	0.5292	0.3132	2.4399
Fugitive PM2.5				12.2950	12.2950
PM10 Total		1.5974	0.5292	46.2965	48.4231
Exhaust PM10	lb/day	1.5974	0.5292	0.3373	2.4640
Fugitive PM10	/P/			45.9592	45.9592
S02		0.0944	0.0418	9.5233 45.9914 110.0422 0.4681	0.6043
<b>၀</b> ၁		30.5020 15.0496 88.4430 0.0944	4.2573	110.0422	40.7912 67.7872 202.7424
NOX CO		15.0496	0.7660 6.7462	45.9914	67.7872
ROG		30.5020	0.7660	9.5233	40.7912
	Category	Area	Energy	Mobile	Total

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

C02e	0.00
N20	00'0
CH4	00'0
Total CO2	00.0
NBio-CO2	00'0
Bio-CO2	00'0
PM2.5 Total	0.00
Exhaust PM2.5	00'0
Fugitive PM2.5	00'0
PM10 Total	00'0
Exhaust PM10	00'0
Fugitive PM10	00'0
S02	00.0
8	00'0
NOX	00'0
ROG	0.00
	Percent

## 3.0 Construction Detail

### **Construction Phase**

(

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days Phase Description Week
_	Demolition	Demolition	9/1/2021	10/12/2021	5	30
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20
က		Grading	i i i	1/11/2022	5	45
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	200
'n			12/13/2023	1/30/2024	5	355
9	Architectural Coating	itectural Coating	1/31/2024	3/19/2024	5.	355

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

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Demolition Demolition	나 본 이 전대 하지 않아서 전하지 않아서 하는 것들은 것을 하다. 전	المترادي وهيدا المتوازية بالمائم المترات فعليا الأراء الإداءاء	Models Theory States and the	A. C. Brand See Jan 1991 (A.S. 1971)	<ul> <li>Zewie ist in spiritual probability in the</li> </ul>
Demolition	Concrete/Industrial Saws		8.00	81	0.73
	Excavators	Ε 1 1 1 1 1 1 1 1 1 1 1	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	ල 	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		8.00	187	0.41
Grading	Rubber Tired Dozers		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		7.00	231	0.29
Building Construction	Forklifts	က	8.00	88	0.20
Building Construction	Generator Sets		8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	()	7.00	97	0.37
Building Construction	Welders		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	808	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT** 

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

Phase Name	Phase Name Offroad Equipment Worker Trip Count Number	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Vendor Trip Hauling Trip Length Length Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Venide Class	Hauling Venicle Class
Demolition	9	15.00	00.0	458.00	10.00	9.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Site Preparation		18.00	00.00	0.00	10.00	9.90		20.00 LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	00.0	0.00	10.00	9.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT
Building Construction	6	801.00	143.00		10.00	9.90		20.00 LD_Mix	HDT_Mix	HHDT
Paving	9	15.00	00.00	0.00	10.00	9.90		20.00 LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	00.00	0.00	10.00	9.90	20.00	20.00 LD_Mix	HDT_Mix	HHDT

(

# 3.1 Mitigation Measures Construction

3.2 Demolition - 2021

128, 08, 99	19-ha gorie ja		1.	1.
CO2e		0.0000	3,774.317	3,774.317 4
NZO				
CH4	Ŷe G		1.0549	1.0549
Total CO2	lb/day	0.000.0	3,747.944 9	3,747.944 3,747.944 9 9
NBio- CO2			3,747.944 3,747.944 9 9	3,747.944 9
Bio-CO2				
PM10 Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO2e Total PM2.5 PM2.5 Total		0.5008	1.4411	1.9419
Exhaust PM2.5		3.3074 0.0000 3.3074 0.5008 0.0000 0.5008	1.4411	1.4411
Fugitive PM2.5		0.5008	         	0.5008
PM10 Total		3.3074	1.5513	4.8588
Exhaust PM10	lb/day	0.000.0	1.5513	3.3074 1.5513
Fugitive Exhaust PM10 PM10	19/6	3.3074		
S02			0.0388	0.0388
co			21.5650	21.5650
ROG NOX			3.1651 31.4407 21.5650 0.0388	31,4407 21,5650
ROG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

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3.2 Demolition - 2021

# **Unmitigated Construction Off-Site**

		မွ	!_		စ္
CO2e	3	1,272.125 2	0.0000	110.5539	1,382.679
NZO				           	
CH4	b/day	0.0908	0.0000	3.3300e- 003	0.0941
Bio- CO2 NBio- CO2 Total CO2 CH4	JQI	1,269.855 1,269.855 0.0908 5 5	0.0000	110.4707 3.3300e- 003	1,380.326 1,380.326 2 2
NBio-CO2		1,269.855 5	0.0000	110.4707	1,380.326 2
Bio-CO2					
PM2.5 Total		0.0854	0.0000	0.0311	0.1165
Exhaust PM2.5		0.0122	0.0000	8.8000e- 004	0.0131
Fugitive PM2.5		0.0732	0.0000	0.0303	0.1034
PIM10 Total		0.2797	0.0000	0.1151	0.3948
Exhaust PM10	lay	0.0128	0.000.0	9.5000e- 004	0.0137
Fugitive PM10	lb/day.	0.2669	0.000.0	0.1141	0.3810
co soz		0.0117	0.0000	1.1100e- 0 003	0.0128
00		0.1304 4.1454 1.0182 0.0117	0.0000	0.3963	1.4144
×ON		4.1454	0.0000	0.0346	4.1800
ROG		0.1304	0.0000	0.0532	0.1835
	Category	Hauling	Vendor	Worker	Total

C02e		0.0000	3,774.317	3,774.317 4
N2O				
CH4	biday		1.0549	1.0549
Total CO2	)/g	0.0000	3,747.944 9	3,747.944 9
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4.			3,747.944 3,747.944 1.0549 9 9	0.0000 3,747,944 3,747,944
Bio-CO2			0.0000	0.0000
PM2.5 Total		0.5008	1.4411	1.9419
Exhaust 'PM2.5		0.0000	1.4411	1.4411
Fugitive PM2.5		0.5008		4.8588 0.5008
PIM10 Total		0.0000 3.3074 0.5008	1,5513	4.8588
Exhaust PM10	lb/day	0.000.0	1.5513	1.5513
Fugitive PM10	yqi	3.3074		3,3074
SO2			0.0388	0.0388
ဝ၁			21.5650	21,5650
NOX			3.1651 31.4407 21.5650 0.0388	3.1651 31.4407 21.5650 0.0388
ROG			3.1651	3.1651
	Category	Fugitive Dust	Off-Road	Total

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

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3.2 Demolition - 2021
Mitigated Construction Off-Site

Water Provi	sjagar e	1		-	
C02e		1,272.125 2	0.0000	110.5539	1,382.679 1
N2O					
CH4	lay	0.0908	0.0000	3.3300e- 003	0.0941
Total CO2	lb/day	1,269.855 1,269.855 5 5	0.000	110.4707 110.4707	1,380.326 1,380.326 2 2
Bio-CO2 NBio-CO2 Total CO2 CH4		1,269.855 5	0.0000	110.4707	1,380.326 2
Bio- C02					
PM2.5 Total		0.0854	0.000.0	0.0311	0.1165
Exhaust PM2.5		0.0122	0.000.0	8.8000e- 004	0.0131
Fugitive PM2.5		0.0732	0.000.0	0.0303	0.1034
PM10 Total		0.2797	0.0000	0.1151	0.3948
Exhaust PM10	lay	0.0128	0.000.0	9.5000e- 004	0.0137
Fugitive PM10	¹lb/day	0.2669	0.000.0	141	0.3810
S02		0.0117	0.0000	1.1100e- 0.1 003	0.0128
NOX CO		1.0182	0.000	0.3963	1.4144
×ON		4.1454	0.0000	0.0346	0.1835 4.1800 1.4144 0.0128
ROG		0.1304 4.1454 1.0182 0.0117 0.2669	0.0000	0.0532	0.1835
	Category	Hauling	Vendor	Worker	Total

3.3 Site Preparation - 2021

CO2e		0.0000	3,715.457	3,715.457 3
N2O CO2e				
C)+4	ay		1.1920	1.1920
Total CO2	lb/day	0.000.0	3,685.656 9	3,685.656 3,685.656 9
NBio- CO2			3,685.656 3,685.656 9	3,685.656 9
Bio- CO2				
ROG NOx CO SO2 Fugitive Exhaust PM10 Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4		9.9307	1.8809	11.8116
Exhaust PM2.5		0.000.0	1.8809	11.8809 11.8116
Fugitive PM2.5		9.9307		2.0445 20.1107 9.9307
PM10 Total		18.0663 0.0000 18.0663 9.9307	2.0445	20.1107
Exhaust PM10	lb/day	0.0000	2.0445	
Fugitive PM10	lb/	18.0663		18.0663
S02			0.0380	0.0380
တ			21.1543	21.1543
XON			40.4971	3.8882 40.4971 21.1543 0.0380 18.0
ROG			3.8882 40.4971 21.1543 0.0380	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

3.3 Site Preparation - 2021
Unmitigated Construction Off-Site

CO2e		0.0000	0.0000	132.6646	132.6646
N2O					
CH4	lay	0.000.0	0.0000	3.9900e- 003	3.9900e- 003
Total CO2	leb/ql	0.0000 0.0000 0.0000	0.0000	132.5649 132.5649	132.5649 132.5649
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000	0.0000	132.5649	132.5649
Bio- CO2			1 1 1 1 1		
st PM2.5 5 Total		0.0000	0.0000	0.0374	0.0374
Fugitive Exhaust PM2.5 PM2.5		0.000 0.0000 0.0000	0.000.0	1.0500e- 003	1.0500e- 003
Fugitive PM2.5		0.0000	0.0000	0.0363	0.0363
PM10. Total		0.0000	0.000.0	0.1381	0.1381
Exhaust PM10	lb/day	0.0000	0.0000	9 1.1400e- 003	1.1400e- 003
Fugitive PM10	)(q)		0.000	0.136	0.1369
CO SO2		0.0000	0.0000	5 1.3300e- 003	1.3300e- 003
တ		0.000	0.0000	0.475	0.4755
XON		0.0000 0.0000 0.0000 0.0000	0.0000	0.0415	0.0415
ROG		0.0000	0.0000	0.0638	0.0638
	Category	Hauling	Vendor	Worker	Total

P = 57 16 = 2	T 807			
CO2e		0.0000	3,715.457	3,715.457 3
OŽN				
CH4			1.1920	1.1920
otal CO2	lb/day	0.0000		
Bio-CO2 T			0.0000 3,685,656 3,685,656 9 9	,685.656 3, 9
Bio- CO2 NBio- CO2 Total CO2 CH4			0.000.0	0.0000 3,685.656 3,685.656 9 9
PM2.5		9.9307	1.8809	11.8116
Exhaust PM2.5		0.0000	1.8809	1.8809
Fugitive PM2.5		9.9307		9.9307
PM10 Total		0.0000 18.0663 9.9307	2.0445	
Exhaust -PM10	ay	0.0000	2.0445	2.0445 20.1107
Fugitive Exhaust PM10 PM10	lb/day	18.0663		18.0663
S02			0.0380	0.0380
လ			21.1543	21.1543
NOX			3.8882 40.4971 21.1543	3.8882 40.4971 21.1543
ROG			3.8882	3.8882
	Category	Fugitive Dust	Off-Road	Total

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

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3.3 Site Preparation - 2021
Mitigated Construction Off-Site

a kata kanasa	Lance of Page				
C02e		0.0000	0.0000	132.6646	132.6646
NZO				 	
CH4	lay	0.000.0	0.0000	3.9900e- 003	3.9900e- 003
Fotal CO2	(lb/day	0.0000 0.0000	0.0000	132.5649 132.5649	132.5649
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000	132.5649	132.5649
Bio-CO2					
PM2.5 Total		0.000.0	0.000.0	0.0374	0.0374
Exhaust PM2.5		0.000.0	0.0000	1.0500e- 003	1.0500e- 003
Fugitive PM2.5		0.0000	0.0000	0.0363	0.0363
PM10 Total		0.0000	0.000.0	0.1381	0.1381
Exhaust PM10	lay	0.000.0	0.000.0	1.1400e- 003	1.1400e- 003
Fugitive PM10	lb/day	0.000.0	0.000.0	0.1369	0.1369
S02		0.0000	0.0000	0.4755 1.3300e- (	1.3300e- 003
ဝ၁		0.0000	0.0000	0.4755	0.4755
NOX		0.0000	0.0000	0.0415	0.0415
ROG		0.0000	0.0000	0.0638	0.0638
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2021

CO2e		0.0000	6,055.613 4	6,055.613 4
NZO			,	
CH4	ay		1.9428	1.9428
Bio- CO2 NBio- CO2 Total CO2	lbíday	0.000.0	6,007.043 6,007.043 1.9428 4 4	6,007.043 6,007.043 1.9428 4 4
NBio-CO2			6,007.043	6,007.043 4
PM2.5 Total		3,5965	1.8265	5.4230
Exhaust PM2.5		0.0000	1.8265	1.8265
Fugitive PM2.5		3.5965		3.5965
76 W 1 1 1 2 2 m		0.0000 8.6733	1.9853	10.6587
Exhaust PM10	b/day	0.0000	1.9853	1.9853
Fugitive Exhaust PM10 PM10 PM10 Total	/ql	8.6733		8.6733
S02			0.0620	0.0620
8			30.8785	30.8785
NOX			4.1912 46.3998 30.8785 0.0620	4.1912 46.3998 30.8785 0.0620
ROG		•	4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021 Unmitigated Construction Off-Site

	St				
CO2e		0.0000	0.0000	147.4051	147.4051
N2O					
CH4	lay	0.0000	0.0000	4.4300e- 003	4.4300e- 003
Total CO2	kep/ql	0.0000 0.00000 0.00000	0.0000	147.2943 147.2943	147.2943 147.2943
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000	147.2943	147.2943
Bio- CO2					
PM2.5 Total		0.000.0	0.000.0	0.0415	0.0415
Exhaust PM2.5		0.000.0	0.0000	1.1700e- 003	1.1700e- 003
Fugitive PM2.5		0.0000 0.0000	0.0000	0.0404	0.0404
PM10 Total		0.0000 0.0000	0.0000	0.1534	0.1534
Exhaust PM10	iay	0.0000	0.000.0	1.2700e- 003	1.2700e- 003
Fugitive PM10	libiday	0.0000	0.0000	0.1521	0.1521
S02		0.0000	0.0000	1.4800e- 0.1 003	0.5284 1.4800e- 003
8.		0.0000	0.0000	0.5284	0.5284
XON		0.0000 0.0000 0.0000 0.0000	0.000 0.0000	0.0709 0.0462	0.0462
ROG		0.0000	0.0000	0.0709	0.0709
	Category	Hauling	Vendor	Worker	Total

CO2e		0.0000	6,055.613 4	6,055.613 4
N2O				
CF4	y.		1.9428	1.9428
Total CO2	lb/day	0.0000	6,007.043 4	6,007.043 4
NBio-CO2			0.0000 6,007.043 6,007.043 1.9428	0.0000 6,007.043 6,007.043 1.9428
Bio- CO2			0.000.0	0.0000
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O Total		3.5965	1.8265	5.4230
Exhaust PM2.5		0.0000	1.8265	1.8265
ugitive PM2.5		3.5965		3.5965
PM10 Total		8.6733 3.5965 0.0000	1.9853	10.6587
Exhaust PM10	lay	0.000.0	1.9853	1.9853
Fugitive PM10	∖lb/day	8.6733		
S02			0.0620	0.0620
00			30.8785	30.8785
ROG NOX CO			4.1912 46.3998	4.1912 46.3998 30.8785 0.0620 8.6733
806 8			4.1912	4.1912
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2021
Mitigated Construction Off-Site

ø,		g		51	5
C02e		0.0000	0.0000	147.4051	147.4051
NZO					
CH4	lay	0.0000	0.0000	4.4300e- 003	4.4300e- 003
Total CO2	lb/day	0.0000 0.0000	0.0000	147.2943 147.2943 4.4300e-	147.2943 147.2943
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000	0.0000	147.2943	147.2943
Bio-CO2					
PM2.5 Total		0.000.0	0.0000	0.0415	0.0415
Exhaust PM2.5 PM2.5 Total		0.0000 0.0000 0.0000 0.0000 0.0000	0.000.0	1.1700e- 003	1.1700e- 003
Fugitive PM2.5.		0.0000	0.000.0	0.0404	0.0404
PM10 Fugitive Total PM2.5		0.0000	0.0000	0.1534	0.1534
Ogitive Exhaust PM10 PM10	iay		0.0000	1.2700e- 003	1.2700e- 003
Fugitive PM10	İb/day	0.0000	0.0000	0.1521	0.1521
co soz		0.0000	0.0000	1.4800e- 0 003	4 1.4800e- 003
		0.0000 0.0000 0.0000	0.0000	0.5284	0.0462 0.5284
хои		0.0000	0.0000	0.0462	0.0462
ROG		0.0000	0.0000	0.0709	0.0709
	Category	Hauling	Vendor	Worker	Total

3.4 Grading - 2022

co2e		0.0000	6,060.015	6,060.015 8
N2O				
CH4	lb/day .		1.9442	1.9442
Total CO2	)(q)	0.0000	6,011.410 5	6,011.410 6,011.410 1.9442 5 5
NBio-CO2			6,011.410 6,011.410 1.9442 5 5	6,011.410 5
Bio-CO2				
PM2.5 Total		3.5965	1.5041	5.1006
PM10 Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O Total		0.000.0	1.5041	1.5041
Fugitive PM2.5		3.5965		3.5965
PM10 Total		8.6733	1.6349	1.6349 10.3082
Fugitive Exhaust PM10 PM10	lb/day	0.0000	1.6349	
Fugitive PM10	lb/	8.6733		8.6733
80 <b>2</b>			0.0621	0.0621
00			29.0415	29.0415
ROG NOX			38.8435 29.0415 0.0621	3.6248 38.8435 29.0415 0.0621 8.6733
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

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3.4 Grading - 2022
Unmitigated Construction Off-Site

Fluidence at	. 50 de 15				Ι.
CO2e		0.0000	0.0000	142.2207	142.2207
N2O CO2e					
CH#	Ae.	0.0000	0.0000	4.0000e- 003	4.0000e- 003
Total CO2	. Ibi/day	0.0000 0.0000	0.000.0	142.1207	142.1207
NBio-CO2		0.000.0	0.0000	142.1207 142.1207 4.0000e-	142.1207 142.1207
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4.					
PM2.5 Tôtal		00000	0.0000	0.0415	0.0415
Exhaust PM2.5		0.000 0.0000	0.0000	1.1300e- 003	1.1300e- 003
Fugitive PM2.5		0.0000	0.0000	0.0404	0.0404
PM10 Total		0.0000	0.000.0	0.1534	0.1534
Exhaust PM10	lay	0.0000	0.000.0	1.2300e- 0 003	1.2300e- 003
Fugitive PM10	lb/day	0.000.0	0.000.0	0.1521	0.1521
co soz		0.0000	0.000.0	1 1.4300e- 003	0.4861 1.4300e- 003
တ		0.0000 0.0000 0.0000	0.000	0.486	
NOX		0.0000	0.0000	0.0416	0.0416
ROG		0.0000	0.0000	0.0665	0.0665
	Category	Hauling	Vendor	Worker	Total

C02e		0.0000	6,060.015 8	6,060.015 8
NZO				
CH4	8		1.9442	1.9442
Total CO2	lb/đay	0.000.0	5,011.410 5	6,011.410 5
NBio-CO2			0.0000 6.011.410 6,011.410 1.9442	6,011.410 5
Bio- CO2			0.0000	0.0000 6,011.410 6,011.410 1.9442 5 5
Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O PM2.5 PM2.5 Total		3.5965	1.5041	5.1006
Exhaust PM2.5		0.000.0	1.5041	1.5041
Fugitive PM2.5		3.5965		3.5965
PM10 Total			1.6349	10.3082
CO SO2. Fugitive Exhaust PM:10 PM:10	lay	8.6733 0.0000 8.6733	1.6349	1.6349
Fugitive PM10	lb/day	8.6733		8.6733
.S02			0.0621	0.0621
O)			29.0415	29.0415
ROG NOx			3.6248 38.8435 29.0415	3.6248 38.8435 29.0415 0.0621
ROG			3.6248	3.6248
	Category	Fugitive Dust	Off-Road	Total

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

3.4 Grading - 2022
Mitigated Construction Off-Site

Total Survivor	National Co.				<del>,</del>
C02e		0.0000	0.0000	142.2207	142.2207
N2O CO2e					
СН4	lay	0.000.0	0.000	4.0000e- 003	4.0000e- 003
Total CO2	lb/day	0.0000 0.0000 0.0000	0.0000	142.1207 142.1207	142.1207 142.1207
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4.		0.0000	0.0000	142.1207	142.1207
Bio-CO2					
PM2.5 Total		0.0000	0.0000	0.0415	0.0415
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0000	1.1300e- 003	1.1300e- 003
PM10 Fugitive Exhaust Total PM2,5 PM2,5		0.0000	0.0000	0.0404	0.0404
PM10 Total		0.0000	0.0000	0.1534	0.1534
Exhaust PM10	lb/day		0.0000	1.2300e- 003	1,2300e- 003
NOx CO SO2 Fugitive Exhaust PM10	. IPv	0.0000	0.000.0	0.1521	0.1521
\$02		0.0000	0.0000	1. <b>4</b> 300e- 003	11.4300e- 003
တ		0.0000	0.0000	0.4861	0.4861
NOX		0.0000	0.0000 0.0000 0.0000 0.0000	0.0416 0.4861 1.4300e- 003	0.0665 0.0416 0.4861
ROG		0.0000 0.0000 0.0000	0.0000	0.0665	0.0665
	Category	Hauling	Vendor	Worker	Total

# 3.5 Building Construction - 2022

CO2e		2,569.632 2	2,569.632 2
N20 C02e			
CH4	lay	0.6120	0.6120
Total CO2	<b>J(9)</b>	2,554.333 2,554.333 0.6120 6 6	2,554.333 2,554.333 0.6120 6 6
NBio-CO2		2,554.333 6	2,554.333 6
Bio- CO2			
PM2.5 Bio- CO2 NBio-: CO2 Total CO2 CH4  Total		0.7612 0.7612	0.7612
Exhaust PM2.5		0.7612	0.7612
PM10 Fugitive Total PM2.5			
PM10 Total		0.8090 0.8090	0.8090
itive Exhaust //10 PM10	p/day	0.8090	0.8090
SO2 Fugitive PM10	/qi		
SO2		0.0269	0.0269
8		16.3634	16.3634
ROG NOX		1,7062 15.6156 16.3634 0.0269	1.7062 15.6156 16.3634 0.0269
ROG		1.7062	1.7062
	Category	Off-Road	Total

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

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3.5 Building Construction - 2022
Unmitigated Construction Off-Site

	Tr. Ed.A.				
CO2e		0.0000	3,795.028 3	5,695.940 8	9,490.969 1
NZO				 	
CH4	ĵ.	0.0000	0.2381	0.1602	0.3984
Total CO2	lb/day	0.0000 0.0000 0.0000	3,789.075 0	5,691.935	9,481.010 4
Bio- CO2 NBio- CO2 Total CO2		0.0000	3,789.075 3,789.075 0 0	5,691.935 5,691.935 4 4	9,481.010 9,481.010 4 4
Bio-CO2					
PM2.5 Total		0.000.0	0.2881	1.6617	1.9498
Exhaust PM2.5		0.000.0	0.0245	0.0454	0.0699
Fugitive PM2.5		0.0000	0.2636	1.6163	1.8799
PM10 Total		0.0000 0.0000 0.0000	0.9412	6.1425	7.0836
Exhaust PM10	lay	0.000.0	0.0256	0.0493	0.0749
Fugitive PM10	lb/day	0.000.0	0.9155	6.0932	7.0087
S02		0.0000	0.0354	0.0571	0.0926
Nox co so2		0.0000 0.0000 0.0000	3.8005	2.6620 1.6677 19.4699	3.0904 14.8350 23.2704 0.0926
XON		0.0000	13.1673 3.8005	1.6677	14,8350
ROG		0.0000	0.4284	2.6620	3.0904
	Category	Hauling	Vendor	Worker	Total

C02e		2,569.632 2	2,569,632
NZO CO2e			
	as.	0.6120	0.6120
Total CO2	lb/day	2,554.333 6	2,554.333 6
Bio-CO2 NBio-CO2 Total CO2 CH4		0.0000 2,554.333 2,554.333 0.6120 6 6	0.0000 2,554.333 2,554.333 0.6120
Bio- CO2		0.000	0.0000
st PM2.5 5 Total		0.7612 0.7612	0.7612
Exhaust PM2.5		0.7612	0.7612
Fugitive PM2.5			
PM10 Total		0.8090	0.8090
Exhaust PM10 Fugitive Exhaust PM10 PM2.5	lb/day	0.8090 0.8090	0.8090
Fugitive PM10	)/q		
s02		0.0269	0.0269
co		16.3634	16.3634
NOX		1.7062 15.6156 16.3634 0.0269	7062 15.6156 16.3634
ROG		1.7062	1.7062
	Category	Off-Road	Total
	Ö	δ	

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

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

T12 S40 ATR	ES ELECTION		•	١	T
C02e		0.0000	3,795.028 3	5,695.940 8	9,490.969 1
N2O CO2e					
CH4	Á	0000.0	0.2381	0.1602	0.3984
Total CO2	lb/day	0.0000 0.0000 0.0000	3,789.075 0	5,691.935 4	9,481.010
NBio-CO2		0.0000	3,789.075 3,789.075 0 0	5,691.935 5,691.935 4 4	9,481.010 9,481.010 4 4
Bio-CO2 NBio-CO2 Total CO2 CH4		• • • • •	L : : : :		
PM2.5 Total		0.000.0	0.2881	1.6617	1.9498
Exhaust PM2.5		0.0000	0.0245	0.0454	0.0699
Fugitive Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.0000 0.0000 0.0000	0.2636	1.6163	1.8799
PM10 Tótal		0.0000	0.9412	6.1425	7.0836
Exhaust PM10	lb/day	0.000.0	0.0256	0.0493	0.0749
Fugitive PM10	o/ql	0.0000	0.9155	6.0932	7.0087
		0.0000	0.0354	0.0571	0.0926
00		0.0000	3.8005	1.6677 19.4699	23,2704
ROG NOx CO SO2		0.0000 0.0000 0.0000	0.4284 13.1673		3.0904 14.8350
ROG		0.0000	0.4284	2.6620	3.0904
	Category	Hauling	Vendor	Worker	Total

3.5 Building Construction - 2023

CO2e		2,570.406	2,570.406 1
N2O			
CH4	lb/day	0.6079	0.6079
Total CO2	)/gl	2,555,209 2,555,209 0.6079 9 9	2,555.209 2,555.209 0.6079 9
NBio-CO2		2,555.209 9	2,555,209 9
PM10         Fugitive         Exhaust         PM2.5         Bio- CO2         NBio- CO2         Total         CO4           Total         PM2.5         Total         Total         CH4		-1-1-1-1	
PM2.5 Total		0.6584	0.6584
Exhaust PM2.5		0.6584 0.6584	0.6584
Fugitive PM2.5			
PIM10 Total		0.6997	0.6997
itive Exhaust //10: PM10	lay	0.6997 0.6997	0.6997
P. P.	lb/day		
802		0.0269	0.0269
00		16.2440	16.2440
ROG NOX		1.5728 14.3849 16.2440 0.0269	1.5728 14.3849 16.2440 0.0269
ROG		1.5728	1.5728
	Category	Off-Road	Total
	Ö	ō	

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

3.5 Building Construction - 2023
Unmitigated Construction Off-Site

Gest alleria	Portugation	1		•	T.
C02e		0.0000	3,676.641	5,487.402	9,164.043 7
N2O					
CH4	(ay	0.0000	0.2096	0.1442	0.3538
Total CO2	(lp/ga	0.0000 0.0000	3,671.400 3,671.400 0.2096	5,483.797 5,483.797 4 4	9,155.198 9,155.198 1 1
Bio-CO2 NBio-CO2 Total CO2		0.0000	3,671.400	5,483.797	9,155.198 1
Bio-CO2					
PM2.5 Total		0.000.0	0.2752	1.6604	1.9356
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0116	0.0441	0.0557
PM10 Fugitive Exhaust Total PM2.5 PM2.5		0.0000	0.2636	1.6163	1.8799
2.52 1.7 2.5 3.5		0.000.0	0.9277	6.1411	7.0688
Exhaust PM10	lay	0.0000	0.0122	0.0479	0.0601
Fugitive Exhaust PM10 PM10	lb/day	0.0000	0.9156	6.0932	7.0088
S02.		0.0000	0.0343	0.0550	0.0893
တ		0.0000	3.3771	17.8820	21.2591
NOx		0.0000 0.0000 0.0000	9.9726	1.5073	11.4799
ROG		0.0000	0.3183	2.5029	2.8211
	Category	Hauling	Vendor	Worker	Total

C02e		2,570.406 1	2,570.406
NZO			
CHA	<b>A</b>	0.6079	0.6079
otal CO2	lb/day	,555.209 9	,555.209 9
Bio- CO2 T		,555.209 2 9	,555.209 2 9
Sio- CO2 N		0.0000 2,555.209 2,555.209 0.6079	0.0000 2,555.209 2,555.209 0.6079
PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4.			0.6584
Exhaust PM2.5		0.6584 0.6584	0.6584
Fugitive PM2.5			
PM10 Total		0.6997	0.6997
Exhaust PM10	b/day	0.6997 0.6997	0.6997
Fugitive PM10	)/g[]		
SO2		0.0269	0.0269
S		16.2440	16.2440
ROG NOx CO		14.3849	1.5728 14.3849 16.2440
ROG		1.5728 14.3849 16.2440 0.0269	1.5728
	Category	Off-Road	Total

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

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

CO2e		0.0000	3,676.641	5,487.402	9,164.043 7
NZO					:
CH4	à	0.0000	0.2096	0.1442	0.3538
Total CO2	lb/day	0.0000 0.0000 0.00000	3,671.400 3,671.400	5,483.797 4	9,155.198 1
Bio-CO2 NBio-CO2 Total CO2		0.000.0	3,671.400 7	5,483.797	9,155.198 9,155.198 1 1
Bio- CO2			1		
PM2.5 Total		0.0000	0.2752	1.6604	1.9356
Exhaust PM2.5		0.0000	0.0116	0.0441	0.0557
Fugitive PM2.5		0.0000	0.2636	1.6163	1.8799
PM10 Total		0.000.0	0.9277	6.1411	7.0688
Exhaust PM10	lay	0.000.0	0.0122	0.0479	0.0601
Fugitive PM10	(Ib/day	0.0000	0.9156	6.0932	7.0088
S02		0.0000	0.0343	0.0550	0.0893
ဝ၁		0.0000	3.3771	17.8820	21.2591
NOx		0.000 0.0000 0.0000	9.9726	1.5073	2.8211 11.4799 21.2591 0.0893
ROG		0.0000	0.3183	2.5029	2.8211
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2023

C02e		2,225.433 6	0.0000	2,225.433 6
N2O				
CH4	y	0.7140	       	0.7140
otal CO2	lb/day	,207.584	0.0000	,207.584
Bio-CO2 NBio-CO2 Total CO2 CH4 N2O CO26		2,207,584 2,207,584 0.7140 1	}   	2,207.584 2,207.584 0.7140
Bio- CO2 N				
PW2.5 Total		0.4694	0.000.0	0.4694
Exhaust PM2.5		0.4694	0.000.0	0.4694
Fugitive PM2.5			       	
PM10 Total		0.5102	0.000.0	0.5102
Exhaust PM10	ay	0.5102 0.5102	0.000.0	0.5102
Fugitive PM10	lb/day			
S02		0.0228		0.0228
<b>0</b> 0		14.5842		14.5842
XON.		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842 0.0228
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2023
Unmitigated Construction Off-Site

	······································				
CO2e		0.0000	0.0000	102.7603	102.7603
.N2O				           	
CH4	(ay	0.0000	0.0000	2.7000 <del>c</del> 003	2.7000e- 003
Total CO2	(ip/qa/	0.0000 0.0000 0.0000	0.0000	102.6928	102.6928
Bio- CO2   NBio- CO2   Total CO2   CH44   N2O   CO2e		0.0000	0.0000	102.6928	102.6928
PM2.5 Total		0.000.0	0.000.0	0.0311	0.0311
Exhaust PM2.5		0.0000	0.0000	8.3000e- 004	8.3000e- 004
Fugitive PM2.5		0.0000	0.0000	0.0303	0.0303
PM10 Total		0.0000 0.0000	0.0000	0.1150	0.1150
Exhaust PM10	lb/day	0.0000	0.0000	1 9.0000e- 004	9.0000e- 004
Fugitive PM10	lb/	0.0000	8	1141	0.1141
305		0.0000	0.0000	9 1.0300e- 0. 003	1.0300e- 003
20 <b>s</b> 00		0.0000	0.0000 0.0000	0.3349	0.3349
NOx		0.0000 0.0000 0.0000	0.0000	0.0282	0.0282
ROG		0.0000	0.0000	0.0469	0.0469
	Category	Hauling	Vendor	Worker	Total

	Burth Skir			
CO2e		2,225.433 6	0.0000	2,225.433 6
N2O				
<u>C</u>	ý	0.7140	<b></b>	0.7140
Total CO2	lb/day	2,207.584	0.0000	2,207.584
NBio-CO2		0.0000 2,207.584 2,207.584 0.7140	     	0.0000 2,207.584 2,207.584 0.7140
Bio-CO2		0.0000		
Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N2O PM2.5 PM2.5		0.4694	0000.0	0.4694
Exhaust PM2.5		0.4694	0.0000	0.4694
Fugitive PM2.5				
PM10 Total		0.5102 0.5102	0.000.0	0.5102
gitive Exhaust M10 PM10	lb/day	0.5102	0.0000	0.5102
G.	)/ql			
S02		0.0228		0.0228
00		14.5842		14.5842
XON		1.0327 10.1917 14.5842 0.0228		1.0327 10.1917 14.5842 0.0228
ROG		1.0327	0.0000	1.0327
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2023
Mitigated Construction Off-Site

CO2e		0.0000	0.0000	102.7603	102.7603
N2O					
C <del>I</del> I	lay	0.0000	0.0000	2.7000e- 003	2.7000e- 003
Total CO2	kep/ql	0.0000	0.0000	102.6928 102.6928	102.6928
Bio- CO2 NBio- CO2 Total CO2 CH4		0.000.0	0.0000	102.6928	102.6928
Bio- CO2			; ; ; ; ;	; ; ; ;	
PM2.5 Total		0.0000	0.0000	0.0311	0.0311
Exhaust PM2.5			0.000.0	8.3000e- 004	8.3000e- 004
Fugitive PM2.5		0.000 0.0000	00000	0.0303	0.0303
PM10 Total		0.0000	0.000.0	0.1150	0.1150
Exhaust PM10	lay	0.0000 0.0000	0.000.0	9.0000e- 004	11 9.0000e- 004
Fugitive PM10	. Ib/day	0.0000	0.0000	0.11	0.1141
S02		0.0000	0.0000	1.0300e- 003	1.0300e- 003
တ		0.0000	0.0000	0.3349	0.3349
NOx		0.0000 0.0000 0.0000	0.000.0	0.0282	0.0282
ROG		0.0000	0.0000	0.0469	0.0469
	Category	Hauling	Vendor	Worker	Total

3.6 Paving - 2024

. CO2e		2,225.396 3	0.0000	2,225.396 3
N2O				
CH4	ay.	0.7140	           	0.7140
Total CO2	lb/day	2,207.547 2	0.0000	2,207.547 2
Bio-CO2 NBio-CO2 Total CO2		2,207.547 2,207.547 0.7140 2 2 2	} - - - - - - - - - - - - - -	2,207.547 2,207.547 0.7140 2 2
Bio-CO2				
PM2.5 Total		0.4310	0.0000	0.4310
Exhaust PM2.5		0.4310 0.4310	0.000.0	0.4310
Fugitive PM2.5			<b>;</b>             	
PM10 Total		0.4685	0.000.0	0.4685
Exhaust PM10	lay	0.4685 0.4685	0.0000	0.4685
Fugitive PM10	lb/day			
SO2 FI		0.0228		0.0228
CO		14.6258		9.5246 14.6258
ROG NOX CO		9.5246		
ROG		0.9882 9.5246 14.6258 0.0228	0.0000	0.9882
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2024
Unmitigated Construction Off-Site

TOTAL ST	Lange e				
CO2e		0.0000	0.0000	99.5663	99.5663
NZO					
CH4	жe	0.0000	0.0000	2.4700e- 003	2.4700e- 003
Total CO2	/kep/ql	0.0000 1 0.0000	0.0000	99.5045	99.5045
Bio-CO2 NBio-CO2 Total CO2		0.0000	0.0000	99.5045	99.5045
Bio- CO2			1 1 1 1 1		
PM2.5 Total		0.0000	0.000.0	0.0311	0.0311
Exhaust PM2.5		0.0000	0.0000	8.1000e- ( 004	8.1000e- 004
Fugitive PM2.5		0.0000	0.0000	0.0303	0.0303
PM10 Total		0.000.0	0.000.0	0.1150	0.1150
Exhaust PM10	lb/day	0.0000	0.0000	8.8000e- 004	8.8000e- 004
Fugitive PM10	/QI	0.0000	0.0000	0.1141	0.1141
205 00		0.0000	0.0000	4 1.0000e- 003	1.0000e- 003
တ		0.0000	0.000	0.3114	0.3114 1.0000e-
ROG NOX		0.0000 0.0000 0.0000	0.000 0.0000	0.0257 0.3114	0.0257
ROG		0.0000	0.0000	0.0444	0.0444
	Category	Hauling	Vendor	Worker	Total

PM10 Fugitive Exhaust PM2.5 Bio-CO2 NBio-CO2 Total CO2 CH4 N20 CO2e.	, Kepiqi	0.0000 2,207.547 2,207.547 0.7140 2,225.396	0.0000	207.547 0.7140 2,225.396 2
32 NBio-CO2 T.		0 2,207,547 2, 2		0.4310 0.4310 0.0000 2,207.547 2,207.547 2,207.547
5 Bio-C(			<b>******</b>	0.000
ust PM2.		0.4310 0.4310	0.0000	10 0.431
ugitive Exha PM2.5 PM2		0.43	0.0000	0.43
PM10 F		0.4685	0.0000	0.4685
Exhaust PM:10	lb/day	0.4685	0.0000	0.4685
Fugitive PM10	<b>q</b> l			
S02		3 0.0228	·	3 0.0228
00		0.9882 9.5246 14.6258 0.0228		0.9882 9.5246 14.6258 0.0228
NOx		2 9.5246		9.5246
ROG		0.9882	0.0000	0.9882
	Category	Off-Road	Paving	Total

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

3.6 Paving - 2024
Mitigated Construction Off-Site

Feder A Checon	<i>1877</i> (10 10 10 1		,		y
CO2e		0.0000	0.0000	99.5663	99.5663
N2O				,	
CH4	, se	0.000	0.000.0	2.4700 <del>c</del> 003	2.4700e- 003
Total CO2	lbiday	0.000.0	0.000.0	99.5045	99.5045
NBio-CO2		0.000.0	0.0000	99.5045	99.5045
Bio- CO2 NBio- CO2 Total CO2					
PM2.5 Total		0.000.0	0.000.0	0.0311	0.0311
Exhaust PM2.5		0.0000	0.0000	8.1000e- 004	8.1000e- 004
Fugitive Exhaust PM2.5 PM2.5		0.000.0	0.000	0.0303	0.0303
PM10 Total		0.0000	0.000.0	0.1150	0.1150
Exhaust PM10	lay	0.0000	0.0000	8.8000e- 004	8.8000e- 004
Fugitive PM10	lb/day	0.0000	0.0000	0.1141	0.1141
S02		0.0000	0.000.0	1.0000e- 0. 003	0.3114 1.0000e- 003
တ		0.0000	0.0000	0.3114	0.3114
ROG NOX		0.0000 0.0000 0.0000	0.0000	0.0257	0.0257
ROG		0.0000	0.0000	0.0444	0.0444
	Category	Haufing	Vendor	Worker	Total

# 3.7 Architectural Coating - 2024

CO2e		0.0000	281.8443	281.8443
N20			*	
CH4	lb/day		0.0159	0.0159
Total CO2	ygı:	0.000.0	281.4481 281.4481	281.4481 281.4481
Bio- CO2   NBio- CO2   Total CO2   CH4			281,4481	281.4481
Bio-CO2				
t PM2.5 Total		0.0000	0.0609	6090'0
Exhaust PM10 Fugitive Exhaust PM10 Total PM2.5 PM2.5		0.000.0	0.0609	0.0609
Fugitive PM2.5				
PM10 Total		0.0000	0.0609	6090'0
Exhaust PM10	lb/day	0.0000	0.0609	6090'0
Fugitive PM10	/gl			
802			2.9700e- 003	2.9700e- 003
00			1.8101 2.9700e- 003	1.8101
ROG NOX CO			1.2188	1.2188
ROG		236.4115	0.1808	236.5923 1.2188 1.8101 2.9700e- 003
	Category	Archit. Coating 236.4115	Off-Road	Total

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

Date: 1/12/2021 2:30 PM

3.7 Architectural Coating - 2024
Unmitigated Construction Off-Site

Type years	∎egsat Sit	_			
CO2e		0.0000	0.0000	1,062.041	1,062.041 0
N2O CO2e				 	
CH4	Ĉe .	0.000.0	0.0000	0.0264	0.0264
Total CO2	lb/day	0.0000 0.0000 0.0000	0.0000	1,061.381 8	1,061.381 1,061.381 8 8
Bio-CO2 NBio-CO2 Total CO2 CH4		0.000.0	0.0000	1,061.381 1,061.381 8 8	1,061.381 8
Bio-CO2			: : : : :		
Exhaust PM10 Fugitive Exhaust PM2.5 PM10 Total PM2.5 PM2.5 Total		0.000.0	0.0000	0.3315	0.3315
Exhaust PM2.5		0.0000 0.0000 0.0000	0.0000	8.6800e- 003	8.6800e- 003
Fugitive PM2.5		0.0000	0.0000	0.3229	0.3229
PW10 Total		0.0000	0.0000	2266	1.2266
Exhaust PM10	Jay	0.0000	0.0000	9.4300e- 003	9.4300e- 1. 003
Fugitive PM10	lb/day	0.0000	0.0000	1.2171	1.2171
S02		0.0000	0.0000	0.0107	0.0107
NOx CO SO2 Fugitive PM10		0.0000 0.0000 0.0000	0.0000 0.0000	0.4734 0.2743 3.3220 0.0107	3.3220
		0.0000	0.0000	0.2743	0.2743
ROG		0.0000	0.0000	0.4734	0.4734
	Category	Hauling	Vendor	Worker	Total

				_
CO2e		0.0000	281.8443	281.8443
NZO				
CH4	se		0.0159	0.0159
Total CO2	lb/day	0.0000	281.4481	281.4481
NBio-CO2			281.4481 281.4481 0.0159	0.0000 281.4481 281.4481
Bio-CO2 NBio-CO2 Total CO2			0.000.0	0.0000
PM2.5 Total		00000	6090.0	0.0609
Exhaust - PM2.5		0.0000	6090.0	6090.0
Fugitive PM2.5			 	
PM10 Total		0.000.0	0.0609	6090'0
Exhaust PM10	ay	0.0000 0.0000	0.0609	0.0609
Fugitive PM10	lb/day			
S02			1.8101 2.9700e- 003	2.9700e- 003
00			1.8101	1.8101
NOX			1.2188	1.2188
ROG		236.4115	0.1808	236.5923 1.2188 1.8101 2.9700e-
	Category	Archit. Coating 236.4115	Off-Road	Total

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

3.7 Architectural Coating - 2024
Mitigated Construction Off-Site

C02e		0.0000	0.0000	1,062.041	1,062.041 0
N2O					
CH4	lay	0.0000	0.0000	0.0264	0.0264
Total CO2	(Ib/day	0.000.0	0.000.0	1,061.381 1,061.381 8 8	1,061.381 1,061.381 8 8
Bio-CO2 NBio-CO2 Total-CO2 CH4		0.000	0.000.0	1,061.381 8	1,061.381 8
Bio-co2					
PM2.5 Total		0.000	0.000.0	0.3315	0.3315
Exhaust PM2.5		0.000.0	0.0000	8.6800e- 003	8.6800e- 003
Fugitive PM2.5		0.0000	0.000.0	0.3229	0.3229
PM10 Total		0.000.0	0.000.0	1.2266	1.2266
Exhaust PM10	lb/day	0.0000 0.0000 0.0000	0.000.0	9.4300e- 003	9.4300e- 003
ugitive PM10	)/ <b>q</b> l	0.0000	0.000.0	1.2171	1.2171
CO SO2 F		0.000.0	0.000.0	0.0107	0.0107
00		0.0000 0.0000 0.0000	0.0000	3.3220	3.3220
XON		0.0000	0.0000 0.0000	0.2743	0.4734 0.2743
ROG		0.0000	0.0000	0.4734	0.4734
	Category	Hauling	Vendor	Worker	Total

# 4.0 Operational Detail - Mobile

# 4.1 Mitigation Measures Mobile

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

C02e	47,972.68 39	47,972.68 39
N2O		h
CH4	2.1953	2.1953
Total CO2	47,917.80 05	47,917.80 47,917.80 2.1953 05 05
NBio-CO2	47,917.80 47,917.80 2.1953 05 05	47,917.80 05
Bio-CO2 NBio-CO2 Total CO2 CH4		
PM2.5 Total	12.6083	12.6083
Fugilive Exhaust PM2.5	15.9592 0.3373 46.2965 12.2950 0.3132 12.6083	0.3373 46.2965 12.2950 0.3132 12.6083
Fugitive PMZ.5	12.2950	12.2950
PM10 Total	46.2965	46.2965
rigitive Exhaust PM10 PM10 Ib/day	0.3373	0.3373
Fugitive PM10	7	45.9592
SO2	0.4681	0.4681
8	110.0422	110.0422
ROG NOx CO SO2	9.5233 45.9914 110.0422 0.4681	9.5233 45.9914 110.0422 0.4681
ROG	9.5233	9.5233
Categoty	Mitigated	Unmitigated

# 4.2 Trip Summary Information

	Aver	Average Daily Trip Rate	le .	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual WMT
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

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

[140/02	Keigh	1						
% e	Pass-by	က	9	4	43	4	44	11
Trip Purpose %	Diverted	11	Ξ	19	20	38	48	35
	Primary	98	98	77	37	58	38	54
	or C-C H-O or C-NW H-W or C-W H-S or C-C H-O or C-NW	40.60	40.60	19.00	19.00	19.00	19.00	19.00
Trip %	H-S or C-C	19.20	19.20	48.00	72.50	61.60	00.69	64.70
	H-W or C-W	40.20	40.20	33.00	8.50	19.40	12.00	16.30
	H-O or C-NW	8.70	8.70	6.90	6.90	6.90	9.90	6.90
Miles	H-S or C-C	5.90	5.90	8.40	8.40	8.40	8.40	8.40
	H-W or C-W H-S	14.70	14.70	16.60	16.60	16.60	16.60	16.60
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down	Hotel	Quality Restaurant	Regional Shopping Center

### 4.4 Fleet Mix

Land Use	LDA	LDA LDT1 LDT2		MDV	MDV LHD1 LHD2 MHD HHP OBUS	LHD2	MHD	HHD	OBUS	UBUS MCY	MCY	SBNS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	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	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	.543088 0.044216	0.209971	0.116369	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	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.543088 0.044216 0.209971	0.209971	0.116369	0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712	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	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	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	0.543088 0.044216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712 0.000821	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	0.543088 0.04216 0.209971 0.116369 0.014033 0.006332 0.021166 0.033577 0.002613 0.001817 0.005285 0.000712	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	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

Historical Energy Use: N

# 5.1 Mitigation Measures Energy

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

CO2e		8,405.638 7	8,405.638
N2O CO2e		8,355,983 8,355,983 0.1602 0.1532 8,405,638	0.1532 8,405.638
CH4	lay	0.1602	0.1602
Total CO2	)/qı	8,355.983 2	8,355.983 8,355.983 0.1602
Bio-CO2 NBio-CO2 Total CO2 CH4	÷	8,355.983 2	8,355.983 2
Bio-CO2			
t PM2.5 Total		0.5292	0.5292
Fugitive Exhaust PM2.5 PM2.5		0.5292	0.5292
Fugitive PM2.5			
PM10 Total		0.5292	0.5292
Exhaust PM10	day	0.5292	0.5292
Fugitive PM10	(D)		
S02		0.0418	0.0418
တ		4.2573	4.2573 0.0418
ROG NOX		0.7660 6.7462 4.2573 0.0418	0.7660 6.7462
ROG		0.7660	0.7660
	Category	NaturalGas Mitigated	NaturalGas Unmitigated

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

5.2 Energy by Land Use - NaturalGas

5.2 Energy by Land Use - Na Unmitigated

CO2e		132.4486	4,234.933 9	51.8884	2,693.546	564.4782	598.5658	29.7778	8,405.638 7
		<b>}</b>	t	·	ţ·	† ·	†	j	
NZO		2.4100e- 003	0.0772	2.7700e- 003	0.0491	0.0103	0.0109	5.4000e- 004	0.1532
CH4	á	2.5200e- 003	0.0807	2.8900e- 003	0.0513	0.0108	0.0114	5.7000e- 004	0.1602
Total CO2	. Ib/day	131.6662 131.6662 2.5200e-	4,209.916 4	150.9911	2,677.634	561.1436	595.0298	29.6019	8,355.983
Bio- CO2 NBio- CO2 Total CO2		131.6662	4,209.916	150.9911	2,677.634 2	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2			* • • • • • • • • • • • • • • • • • • •	; ; ; ;				• • • • • • • • • • • • • • • • • • •	
PM2.5 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM2.5		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM2.5									
PM10 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM10	lb/day	8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Fugitive PM10	/gi								
S02		6.6000e- 004	0.0211	7.5000e- 004	0.0134	2.8100e- 003	2.9800e- 003	1.5000e- 004	0.0418
00		0.0439	1.4033	0.1057	1.8743	0.3928	0.4165	0.0207	4.2573
XON		0.1031	3.2978	0.1258	2.2314	0.4676	0.4959	0.0247	6.7463
ROG		0.0121	0.3859	0.0138	0.2455	0.0514	0.0545	2.7100 <del>c</del> 003	0.7660
NaturalGa s Use	kBTU/yr	1119.16	35784.3	1283.42	22759.9	4769.72	5057.75	251.616	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

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Date: 1/12/2021 2:30 PM

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

5.2 Energy by Land Use - NaturalGas

Mitigated

C02e		132.4486	4,234.933 9	151.8884	2,693.546	564.4782	598.5658	29.7778	8,405.638 7
N2O		2.4100e- 003	0.0772	2.7700e- 003	0.0491	0.0103	0.0109	5.4000e- 004	0.1532
CH4	Poptasi	2.5200 <del>c-</del> 003	0.0807	2.8900e- 003	0.0513	0.0108	0.0114	5.7000e- 004	0.1602
Total CO2	) <b>[</b> ]	131.6662	4,209.916 4	150.9911	2,677.634 2	561.1436	595.0298	29.6019	8,355,983 2
Bio-CO2 NBio-CO2 Total CO2		131.6662	4,209.916 • 4,209.916 4 4	150.9911	2,677.634	561.1436	595.0298	29.6019	8,355.983 2
Bio-CO2									
PM2.5 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700 <del>e-</del> 003	0.5292
Exhaust PM2.5		8.3400 <del>c</del> 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700 <del>c</del> 003	0.5292
Fugitive PM2.5								<b>-</b>	
PM10 Total		8.3400e- 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700e- 003	0.5292
Exhaust PM10	lb/day	8.3400 <del>c</del> 003	0.2666	9.5600e- 003	0.1696	0.0355	0.0377	1.8700 <del>e-</del> 003	0.5292
Fugitive PM10	<b>/9</b> l								
S02		6.6000e- 004	0.0211	7.5000e- 004	0.0134	2.8100e- 003	2.9800e- 003	1.5000e- 004	0.0418
00		0.0439	1.4033	0.1057	1.8743	0.3928	0.4165	0.0207	4.2573
NOX		0.1031	3.2978	0.1258	2.2314	0.4676	0.4959	0.0247	6.7463
ROG		0.0121	0.3859	0.0138	0.2455	0.0514	0.0545	2.7100 <del>c.</del> 003	0.7660
NaturalGa s Use	kBTU/yr	1.11916	35.7843	1.28342	22.7599	4.76972	5.05775	0.251616	
	Land Use	Apartments Low Rise	Apartments Mid Rise	General Office Building	High Turnover (Sit Down Restaurant)	Hotel	Quality Restaurant	Regional Shopping Center	Total

6.0 Area Detail

## 6.1 Mitigation Measures Area

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

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1.5974 1.5974 0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 50 50 50 92 0.0000 18,148.59 18,148.59 0.4874 0.3300 18,259.11 50 50 92 N20 CH4 -lb/day Bio- CO2 NBio- CO2 Total CO2 1.5974 PM2.5 Total Exhaust PM2.5 1.5974 1.5974 1.5974 1.5974 1.5974 lb/day Unmitigated 30.5020 15.0496 88.4430 0.0944 30.5020 15.0496 88.4430 0.0944 တ ROG Mitigated Category

6.2 Area by SubCategory

Unmitigated

COZe		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
N2O				0.3300		0.3300
CH4	ay.			0.3450	0.1424	0.4874
Total CO2	lb/day	0.0000	0.000.0	18,000.00 00	148.5950	18,148.59 50
Bio-CO2 NBio-CO2 Total CO2				18,000.00 18,000.00 00 00	148.5950 148.5950	18,148.59 50
Bio-CO2			 	0.0000		0.000
PM2.5 Total		0.000	0.000.0	1.1400	0.4574	1.5974
Exhaust PM2.5		0.000.0	0.000.0	1.1400	0.4574	1.5974
PM10 Fugitive Total PM2.5			<b>†</b> 1 1 1 1 1 1	<b> </b>             		
15.0405.88		0.0000	0.0000	1.1400	0.4574	1.5974
CO SO2 Fugitive Exhaust PM10	lay	0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	lb/day		             			
s02				0.090.0	4.3600e- 003	0.0944
පි				6.0000	82.4430	88.4430
ROG NOx			F	14.1000 6.0000 0.0900	0.9496	15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer	Hearth	Landscaping	Total

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

6.2 Area by SubCategory

**Mitigated** 

FEET STATES	Bushing and Sa			,		
CO2e		0.0000	0.0000	18,106.96 50	152.1542	18,259.11 92
NZO				0.3300	[ ] ] ! !	0.3300
CH4	ay			0.3450	0.1424	0.4874
Total CO2	l5/day	0.000.0	0.0000	18,000.00	148.5950	18,148.59 50
Bio-CO2 NBio-CO2 Total CO2 CH4			 	18,000.00 18,000.00 00 00	148.5950	18,148.59 50
Bio-CO2			i i i	0.0000		0.0000
PM2.5 Total		0.000	0.0000	1.1400	0.4574	1.5974
Exhaust PM2.5		0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM2.5						
PM10. Total		0.0000	0.000.0	1.1400	0.4574	1.5974
Exhaust PM10	lb/day	0.0000	0.0000	1.1400	0.4574	1.5974
Fugitive PM10	//q!					
.S02				0.0900	4.3600e- 003	0.0944
හ				6.0000	82.4430 4.3600e- 003	88.4430
NOX				14.1000 6.0000	0.9496	15.0496
ROG		2.2670	24.1085	1.6500	2.4766	30.5020
	SubCategory	Architectural Coating	Consumer Products	Hearth	Landscaping	Total

### 7.0 Water Detail

# 7.1 Mitigation Measures Water

### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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## 10.0 Stationary Equipment

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

# Fire Pumps and Emergency Generators

Equipment Type Hours/Day Hours/Near Horse Power Load Factor Fuel Type
Boilers
Equipment Type Heat Input/Day Heat Input/Day Boiler Rating Fuel Type
User Defined Equipment

### 11.0 Vegetation

Number

Equipment Type

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### Attachment C

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



### SOIL WATER AIR PROTECTION ENTERPRISE

2656 29th Street, Suite 201 Santa Monica, California 90405 Attn: Paul Rosenfeld, Ph.D. Mobil: (310) 795-2335 Office: (310) 452-5555 Fax: (310) 452-5550

Email: prosenfeld@swape.com

### Paul Rosenfeld, Ph.D.

Chemical Fate and Transport & Air Dispersion Modeling

Principal Environmental Chemist

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

Simons, R.A., Seo, Y. Rosenfeld, P., (2015) Modeling the Effect of Refinery Emission On Residential Property Value. Journal of Real Estate Research. 27(3):321-342

Chen, J. A, Zapata A. R., Sutherland A. J., Molmen, D.R., Chow, B. S., Wu, L. E., Rosenfeld, P. E., Hesse, R. C., (2012) Sulfur Dioxide and Volatile Organic Compound Exposure To A Community In Texas City Texas Evaluated Using Aermod and Empirical Data. *American Journal of Environmental Science*, 8(6), 622-632.

Rosenfeld, P.E. & Feng, L. (2011). The Risks of Hazardous Waste. Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & Rosenfeld, P.E. (2011). Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Agrochemical Industry, Amsterdam: Elsevier Publishing.

Gonzalez, J., Feng, L., Sutherland, A., Waller, C., Sok, H., Hesse, R., Rosenfeld, P. (2010). PCBs and Dioxins/Furans in Attic Dust Collected Near Former PCB Production and Secondary Copper Facilities in Sauget, IL. *Procedia Environmental Sciences*. 113–125.

Feng, L., Wu, C., Tam, L., Sutherland, A.J., Clark, J.J., Rosenfeld, P.E. (2010). Dioxin and Furan Blood Lipid and Attic Dust Concentrations in Populations Living Near Four Wood Treatment Facilities in the United States. *Journal of Environmental Health*. 73(6), 34-46.

Cheremisinoff, N.P., & Rosenfeld, P.E. (2010). Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Wood and Paper Industries. Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & Rosenfeld, P.E. (2009). Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Petroleum Industry. Amsterdam: Elsevier Publishing.

Wu, C., Tam, L., Clark, J., Rosenfeld, P. (2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. WIT Transactions on Ecology and the Environment, Air Pollution, 123 (17), 319-327.

- Tam L. K.., Wu C. D., Clark J. J. and Rosenfeld, P.E. (2008). A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equivalency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. *Organohalogen Compounds*, 70, 002252-002255.
- Tam L. K.., Wu C. D., Clark J. J. and Rosenfeld, P.E. (2008). Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. *Organohalogen Compounds*, 70, 000527-000530.
- Hensley, A.R. A. Scott, J. J. J. Clark, **Rosenfeld, P.E.** (2007). Attic Dust and Human Blood Samples Collected near a Former Wood Treatment Facility. *Environmental Research*. 105, 194-197.
- Rosenfeld, P.E., J. J. J. Clark, A. R. Hensley, M. Suffet. (2007). The Use of an Odor Wheel Classification for Evaluation of Human Health Risk Criteria for Compost Facilities. *Water Science & Technology* 55(5), 345-357.
- Rosenfeld, P. E., M. Suffet. (2007). The Anatomy Of Odour Wheels For Odours Of Drinking Water, Wastewater, Compost And The Urban Environment. Water Science & Technology 55(5), 335-344.
- Sullivan, P. J. Clark, J.J., Agardy, F. J., Rosenfeld, P.E. (2007). Toxic Legacy, Synthetic Toxins in the Food, Water, and Air in American Cities. Boston Massachusetts: Elsevier Publishing
- Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash. Water Science and Technology. 49(9),171-178.
- Rosenfeld P. E., J.J. Clark, I.H. (Mel) Suffet (2004). The Value of An Odor-Quality-Wheel Classification Scheme For The Urban Environment. *Water Environment Federation's Technical Exhibition and Conference (WEFTEC)* 2004. New Orleans, October 2-6, 2004.
- Rosenfeld, P.E., and Suffet, I.H. (2004). Understanding Odorants Associated With Compost, Biomass Facilities, and the Land Application of Biosolids. *Water Science and Technology*. 49(9), 193-199.
- Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash, Water Science and Technology, 49(9), 171-178.
- Rosenfeld, P. E., Grey, M. A., Sellew, P. (2004). Measurement of Biosolids Odor and Odorant Emissions from Windrows, Static Pile and Biofilter. *Water Environment Research*. 76(4), 310-315.
- Rosenfeld, P.E., Grey, M and Suffet, M. (2002). Compost Demonstration Project, Sacramento California Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Integrated Waste Management Board Public Affairs Office*, Publications Clearinghouse (MS–6), Sacramento, CA Publication #442-02-008.
- Rosenfeld, P.E., and C.L. Henry. (2001). Characterization of odor emissions from three different biosolids. *Water Soil and Air Pollution*. 127(1-4), 173-191.
- Rosenfeld, P.E., and Henry C. L., (2000). Wood ash control of odor emissions from biosolids application. *Journal of Environmental Quality*. 29, 1662-1668.
- Rosenfeld, P.E., C.L. Henry and D. Bennett. (2001). Wastewater dewatering polymer affect on biosolids odor emissions and microbial activity. *Water Environment Research*. 73(4), 363-367.
- Rosenfeld, P.E., and C.L. Henry. (2001). Activated Carbon and Wood Ash Sorption of Wastewater, Compost, and Biosolids Odorants. *Water Environment Research*, 73, 388-393.
- Rosenfeld, P.E., and Henry C. L., (2001). High carbon wood ash effect on biosolids microbial activity and odor. Water Environment Research. 131(1-4), 247-262.

- Chollack, T. and P. Rosenfeld. (1998). Compost Amendment Handbook For Landscaping. Prepared for and distributed by the City of Redmond, Washington State.
- Rosenfeld, P. E. (1992). The Mount Liamuiga Crater Trail. Heritage Magazine of St. Kitts, 3(2).
- Rosenfeld, P. E. (1993). High School Biogas Project to Prevent Deforestation On St. Kitts. *Biomass Users Network*, 7(1).
- Rosenfeld, P. E. (1998). Characterization, Quantification, and Control of Odor Emissions From Biosolids Application To Forest Soil. Doctoral Thesis. University of Washington College of Forest Resources.
- Rosenfeld, P. E. (1994). Potential Utilization of Small Diameter Trees on Sierra County Public Land. Masters thesis reprinted by the Sierra County Economic Council. Sierra County, California.
- Rosenfeld, P. E. (1991). How to Build a Small Rural Anaerobic Digester & Uses Of Biogas In The First And Third World. Bachelors Thesis. University of California.

# **Presentations:**

- Rosenfeld, P.E., Sutherland, A; Hesse, R.; Zapata, A. (October 3-6, 2013). Air dispersion modeling of volatile organic emissions from multiple natural gas wells in Decatur, TX. 44th Western Regional Meeting, American Chemical Society. Lecture conducted from Santa Clara, CA.
- Sok, H.L.; Waller, C.C.; Feng, L.; Gonzalez, J.; Sutherland, A.J.; Wisdom-Stack, T.; Sahai, R.K.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Atrazine: A Persistent Pesticide in Urban Drinking Water. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.
- Feng, L.; Gonzalez, J.; Sok, H.L.; Sutherland, A.J.; Waller, C.C.; Wisdom-Stack, T.; Sahai, R.K.; La, M.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Bringing Environmental Justice to East St. Louis, Illinois. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.
- Rosenfeld, P.E. (April 19-23, 2009). Perfluoroctanoic Acid (PFOA) and Perfluoroactane Sulfonate (PFOS) Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. 2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting, Lecture conducted from Tuscon, AZ.
- Rosenfeld, P.E. (April 19-23, 2009). Cost to Filter Atrazine Contamination from Drinking Water in the United States" Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. 2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting. Lecture conducted from Tuscon, AZ.
- Wu, C., Tam, L., Clark, J., Rosenfeld, P. (20-22 July, 2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. Brebbia, C.A. and Popov, V., eds., Air Pollution XVII: Proceedings of the Seventeenth International Conference on Modeling, Monitoring and Management of Air Pollution. Lecture conducted from Tallinn, Estonia.
- **Rosenfeld, P. E.** (October 15-18, 2007). Moss Point Community Exposure To Contaminants From A Releasing Facility. *The 23<sup>rd</sup> Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.
- Rosenfeld, P. E. (October 15-18, 2007). The Repeated Trespass of Tritium-Contaminated Water Into A Surrounding Community Form Repeated Waste Spills From A Nuclear Power Plant. *The 23<sup>rd</sup> Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- **Paul Rosenfeld, Ph.D.** (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. Drycleaner Symposium. California Ground Water Association. Lecture conducted from Radison Hotel, Sacramento, California.
- Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference Orlando, FL.
- **Paul Rosenfeld, Ph.D.** and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants.*. Lecture conducted from Hyatt Regency Phoenix Arizona.
- **Paul Rosenfeld, Ph.D.** (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.
- **Paul Rosenfeld, Ph.D.** (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.
- Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association. Lecture conducted from Barcelona Spain.
- Rosenfeld, P.E. and Suffet, M. (October 7-10, 2002). Using High Carbon Wood Ash to Control Compost Odor. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association. Lecture conducted from Barcelona Spain.
- **Rosenfeld, P.E.** and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..
- **Rosenfeld**, **P.E**. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conference*. Lecture conducted from Indianapolis, Maryland.
- Rosenfeld. P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. Water Environment Federation. Lecture conducted from Anaheim California.
- Rosenfeld. P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest*. Lecture conducted from Ocean Shores, California.
- Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. California Resource Recovery Association. Lecture conducted from Sacramento California.
- Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.
- **Rosenfeld, P.E.**, and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.
- **Rosenfeld, P.E.**, C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell*. Lecture conducted from Seattle Washington.
- Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest*. Lecture conducted from Lake Chelan, Washington.

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

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

# **Teaching Experience:**

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

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

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

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

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

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

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

# **Academic Grants Awarded:**

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

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

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

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

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

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

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

June 2019

# **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, 112th Judicial District

Phillip Bales et al., Plaintiff vs. Dow Agrosciences, 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 17th 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



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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 nationwide 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, Coloradao.

**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 repesentatives, 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.