

# THOUSAND OAKS CITY COUNCIL



## Supplemental Information Packet

**Agenda Related Items - Meeting of June 20, 2023**  
**Supplemental Packet Date: June 20, 2023**

**2:30 p.m.**

### **Supplemental Information:**

Any agenda related public documents received and distributed to a majority of the City Council after the Agenda Packet is printed are included in Supplemental Packets. Supplemental Packets are produced as needed, typically a minimum of two—one available on the Thursday preceding the City Council meeting and the second on Tuesday at the meeting. The Supplemental Packet is available for public inspection on the City's website at [toaks.org/agendas](http://toaks.org/agendas) or by contacting the City Clerk Dept at (805) 449-2151 during normal business hours [main location pursuant to the Brown Act, G.C. 54957.5(2)].

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**From:** George Senko <[gmsenko@pacbell.net](mailto:gmsenko@pacbell.net)>  
**Sent:** Tuesday, June 20, 2023 11:33 AM  
**To:** Sandra Delgado <[SDelgado@toaks.org](mailto:SDelgado@toaks.org)>  
**Subject:** Senior housing LA Times article

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Sandra,

Here is the article that I intend to reference when I speak this evening.

Thanks.

George Senko  
818-621-6656

# As Californians age, they are priced out of housing

Largest study in decades finds another cause of state's homeless crisis



A MAN named Cowboy, 72, rests with his few belongings inside his tent on Skid Row in downtown L.A. in March. Homeless since 2018, he was hoping to find an apartment but didn't have the money to do so.



## ANITA CHABRIA

Public policy and common perception have long tied the road to homelessness with mental illness and drug addiction.

But a new study out Tuesday — the largest and most comprehensive investigation of California's homeless population in decades — found another cause is propelling much of the crisis on our streets: the precarious poverty of the working poor, especially Black and brown seniors.

“These are old people losing housing,” Dr. Margot Kushel told me. She's the lead investigator on the study from UCSF's Benioff Homelessness and Housing Initiative, done at the request of state health officials.

“They basically were ticking along very poor, and sometime after the age of 50 something happened,” Kushel said. That something — divorce, a loved one dying, an illness, even a cutback in hours on the job — sparked a downward spiral and their lives “just blew up,” as Kushel puts it.

Kushel and her team found that nearly half of single adults living on our streets are older than 50. And 7% of all homeless adults, single or in families, are over 65.

And 41% of those older, single Californians had never been homeless — not one day in their lives — before the age of 50.

If that doesn't kindle at least a bit of fear and empathy in your heart, you're either a mogul or a trust fund baby who has never struggled to pay the bills. As much as we want to see the average homeless person as a drug tourist dropping into too progressive cities for the good fentanyl and lax laws, as is the narrative in San Francisco, or someone whose mental illness makes it impossible for them to live unaided, the truth is simpler — and much more devastating: As Californians age, they are being priced out of housing.

We have come to the point of income inequality that if you are older and unable to work, homelessness is a real threat throughout the Golden



State. For every 100 extremely low-income people in California, defined as making less than 30% of area median income, there are only 24 units of affordable housing available.

That makes obtaining and keeping permanent housing an ugly game of musical chairs, as the report puts it, in which too many are left standing when the music stops.

“What people need to know is there are professionals on the street,” DeDe Hancock told me. She’s a member of the lived experience advisory council for the study.

“People who are middle income are dropping to low,” Hancock said. “People working every day are living in cars.”

Before becoming homeless in 2006, Hancock, who has a psychology degree from UC San Diego, owned a home and a rental property. She lost her job as an administrative assistant at a nonprofit after pointing out a financial discrepancy, she said, and filed a wrongful termination complaint.

But losing her job started that spiral that ended up with her losing both her properties. She and her son moved into her mother’s home, but within a few months, her mom

died of pancreatic cancer. She ended up losing that property too when she couldn’t pay off a loan against it.

One loss leading to the next.

Her 12-year-old son went to live with his football coach, and she began sleeping in a storage unit where she was keeping the remnants of her lost life. But eventually she wound up on the streets, two weeks before Thanksgiving in 2009. She remained homeless for seven years until she was able to apply for early Social Security at age 62.

“The sad thing is that in those seven years, no one ever asked me why or how I became homeless,” Hancock told me.

And like so much of our inequality, race is a big factor — Kushel found



that more than a quarter of those surveyed identified as Black, while only 6% of Californians overall are Black. Native Americans are also overrepresented in our homeless population.

Those facts are shameful and should change both the narratives we tell ourselves about the 171,000 people homeless in California and how we fix the crisis.

That's not to say that there isn't also a crisis of mental illness on our streets, or that substance use isn't a problem. Mental illness and substance use are clearly troubling pieces of the puzzle, as is the terrible job we do helping people reestablish themselves when they come out of our jails and prisons. The study found 1 in 5 of those interviewed became homeless after being incarcerated.

A bit more than a quarter of the people Kushel's team interviewed had a mental illness serious enough to require a hospitalization at some point in their lives — a sign of what we all know, that our mental health care system is unconscionably lacking. Which is why initiatives such as [CARE Court](#) are critical to providing an alternative path for those with severe mental illness.

And though Kushel points out that the perception is that most people on the street are using drugs, "it's not everybody," she said. Only about a third said they were regular users of meth — the most common drug reported.

But Kushel found that even for people with those other factors, financial instability was the tipping point.

She discovered that many of the older people living on the streets were employed for most of their lives, often in physically demanding jobs such as waitressing, warehouse work or construction. The kind of jobs our economy depends on, in which workers are easily replaced and often are.

That was the case for Tony, a homeless man I met last week in Sacramento, who says he ended up in a tent after "a storm of bad luck." He asked me not to use his last name, but he shared his story. He was born in the San Fernando Valley and went to Sacramento to be with a



girlfriend. He had a job in transportation but lost his license over a traffic violation in 2018 that he never cleared up. Then he broke up with the girlfriend and had to move out of her apartment.

“After you lose your job, you lose everything,” he told me, standing under a line of shady sycamore trees on a road that divides a rich neighborhood from one filled with encampments.

“There’s too much money on one side [of the street] and not enough on the other,” he said.

The study used eight counties throughout California, including Los Angeles, to create a snapshot of both rural and urban homelessness — surveying nearly 3,200 people and conducting 365 in-depth interviews. Researchers found that the results held regardless of whether a person was without housing in one of our large cities, or in our less populated northern and eastern counties.

Kushel and her team also found another myth-dispelling fact: Most of the homeless people on California’s streets are Californians. While conservative pundits love to scream about lazy homeless people flocking to the state for easy living, “we have to stop these narratives that people are flooding into California,” Kushel said. “It’s not true.”

Kushel found that 9 out of 10 people lost their last housing in California and three-quarters live in the same county as where they most recently had a place to call home.

And a side note: Does compassion require a specific ZIP Code? Most of the money cities and counties are using for housing and homelessness comes from the state and the federal government — not local coffers. Those dollars do not come with where-are-you-really-from strings.

Kushel said her findings should be a wake-up call that while access to substance use treatment and rebuilding the mental health care system are urgent for some of the homeless population, the only solution to homelessness is housing. We have to build not just affordable housing, but also housing for extremely low-income folks, she said. And we have to do better at keeping people in the housing they have, through rent



subsidies and other direct intervention, when life punches them in the face.

Because as fast as we can pull people out of homelessness, the rent is too high and more and more people can't pay it. She found in the six months before their being homeless, people's average income was \$960.

So impoverished people need stable housing — which is the starting point L.A. Mayor Karen Bass is using, to her credit. My colleagues Ruben Vives and Doug Smith **recently** reported that during her first six months in office, Bass has found permanent housing for more than 4,300 people living on the streets and interim housing for thousands more. Her plans may be imperfect, but they have the right goal.

Meanwhile, in San Francisco, Mayor London Breed has **initiated** a crackdown in the troubled Tenderloin that entails arresting folks for crimes including public intoxication, dragging them into custody for a few hours, then tossing them back on the street. Not a single person detained has accepted offers of treatment so far — unsurprising since incarceration is not a huge trust-builder.

That kind of short-term fix drives people further into the margins, Kushel warned, making them invisible but no less in need.

The last statistic I will give you is this: Fewer than half of people living on the streets have received formal help obtaining housing. Despite all our efforts, there is a massive disconnect between how much intervention the government perceives it is offering and how much is actually reaching people, Kushel said.

Though the reasons for that are unclear, she said, it may be in part because aid is focused on shelters or troubled encampments and misses the quiet, hidden homeless.

That is the case for Ivan Dixon, 53, whom I talked to in an alley in Sacramento. He's been homeless since his father kicked him out at age 14, he said, living with a group of underground hip-hop dancers until he aged out of that scene.



When I asked him if he wanted housing, he looked at me as if I was stupid.

“Of course I do,” he told me. But he said being homeless means you are “nobody’s friend.” He has not been offered help, he said. But he also tries to avoid people — moving every night to avoid becoming a “target” of both violence and the police.

“That’s just being in the streets,” he told me.

But it’s no life for an old man.

**From:** Wes Myers <[wes@myersranches.net](mailto:wes@myersranches.net)>

**Sent:** Tuesday, June 20, 2023 8:19 AM

**To:** Kevin McNamee <[KMcNamee@toaks.org](mailto:KMcNamee@toaks.org)>; Al Adam <[AAdam@toaks.org](mailto:AAdam@toaks.org)>; Bob Engler <[BEngler@toaks.org](mailto:BEngler@toaks.org)>; David Newman <[DNewman@toaks.org](mailto:DNewman@toaks.org)>; Mikey Taylor <[MTaylor@toaks.org](mailto:MTaylor@toaks.org)>

**Subject:** Consent Calendar Item 7E - Dudek Scope Amendment

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Dear Mayor McNamee and Councilmembers,

I hope all is well and I am reaching out to you on behalf of your unincorporated neighbors of the Rolling Oaks Tract (Rimrock Rd., Sundown Rd., Saddle Trail, and Colt Ln.) regarding Item 7(E) of the Consent Calendar for tonight's Council Agenda.

As the community that shares property lines with the proposed project located at 400 E. Rolling Oaks Drive, we have a vested interest in this proposal. We want to make sure this project is approached in an thoughtful and educated manner, and the fact that Staff is requesting to more than double the not-to-exceed budget of its consulting firm highlights Staff's admission that this project requires "significantly more analysis" than originally contemplated.

We are requesting that you pull item 7E from the consent calendar tonight and open it up for discussion to ensure that the First Amendment to Task Order No. 3 (On-Call Contract No. 12520-2020) with Dudek Consulting is indeed an adequate scope and complete amendment.

Many residents are planning to speak during the public comment period but we feel it would be more prudent to open up engagement with the Council as opposed to having neighbors speak in a "vacuum." After all, the Council understands the City's mission more than anyone and our Association is very interested in your questions/comments on the matter.

Respectfully,

--

**Wes Myers**  
**President**  
**Rolling Oaks Property Owners Association.**

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 Think green. Print responsibly.



**TO:** Andrew P. Powers, City Manager

**FROM:** Jaime Boscarino, Finance Director

**DATE:** June 20, 2023

**SUBJECT: Agenda Item No. 7W – Annual Gann Appropriations Limit**

The first paragraph of the Discussion/Analysis section of the Staff Report and Attachment #1 currently shows the appropriations subject to the limit amount of \$102,590,013 for Fiscal Year 2023-24. Due to a transpositional error, this amount is now revised to \$102,517,743.

**TO:** Andrew P. Powers, City Manager

**FROM:** Tim Giles, Human Resources Director

**DATE:** June 20, 2023

**SUBJECT:** **Agenda Item No. 7Y – Memoranda of Understanding with Represented Bargaining Units – Thousand Oaks City Employee Association (TOCEA)**

Regarding Memoranda of Understanding with Represented Bargaining Units – Resolution adopting MOU with TOCEA, Exhibit A of the Resolution is being replaced with the attached MOU. Revisions to the MOU include clarifying language to Article 12 – Recruitment, Selection & Classification and Article 20 – Call-Out.



## EXHIBIT A

### AGREEMENT BETWEEN THE CITY OF THOUSAND OAKS AND THE THOUSAND OAKS CITY EMPLOYEE ASSOCIATION

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## **ARTICLE 1 - RECOGNITION**

- 101 As provided by the City of Thousand Oaks (hereinafter "City") Employer-Employee Relations Resolution (hereinafter EERR), the Thousand Oaks City Employee Association (hereinafter TOCEA) was certified as the exclusive representative for employees in the General Unit.
- 102 The Parties further understand that TOCEA has engaged City Employees Association (hereinafter "Union"), to provide representational services for the employees in that Unit.

## **ARTICLE 2 - PURPOSE**

- 201 It is the purpose of this comprehensive Agreement, commonly referred to as a Memorandum of Understanding (MOU), to promote and provide for harmonious relations, cooperation and understanding between the Employer and Employees covered herein, to provide an orderly and equitable means of resolving any misunderstanding or differences which may arise under the Agreement and to set forth the full and entire understanding of the parties reached as a result of meeting and conferring in good faith concerning wages, hours, terms and conditions of employment of the employees covered herein.
- 202 It is agreed that this Agreement shall be binding on the CITY and TOCEA upon implementation by the City Council.
- 203 Upon implementation, the Agreement shall supersede any conflicting rule, regulation or ordinance of the City.

## **ARTICLE 3 - TERM**

- 301 The term of this Agreement shall be two (2) years, commencing on July 1, 2023, and ending on June 30, 2025. The specific provisions of the Agreement shall be effective as specified herein.

## **ARTICLE 4 - RENEGOTIATIONS**

- 401 The Parties shall meet during March 2025, to begin negotiations on a successor Agreement.

## **ARTICLE 5 - INTEGRATION**

- 501 This document embodies a written memorandum of the entire understanding and mutual agreement of the parties as required by Government Code Section 3505.1 and supersedes previous Agreements and Personnel Rules & Regulations.
- 502 This Agreement is subject to the approval of TOCEA members and approval and implementation by the City Council of the City pursuant to said Section 3505.1.



- 503 During the Meet and Confer process that resulted in this Agreement, each party hereto had an unlimited right to make proposals with respect to any subject matter within the scope of the Union's representation of TOCEA.
- 504 All terms and conditions of employment included in this Agreement shall remain in full force and effect for the term of this Agreement as particularized herein unless the City and TOCEA mutually agree to amend this Agreement; however, neither party hereto shall be obliged to meet and confer during the term hereof except as provided herein.
- 505 Sections in this memo not addressed by either party shall remain in full force and effect when a successor Agreement is entered into.
- 506 The waiver of any breach, term or condition of this Agreement shall not bar future enforcement of all its terms and provisions. In the event of a violation of any part of this Agreement, failure to object to the violation shall not waive or bar future enforcement of all provisions.

#### **ARTICLE 6 - SEVERABILITY**

- 601 If any provisions of this Agreement are held to be contrary to law by court of competent jurisdiction, or by State or Federal legislation or initiative or referendum, such provisions will not be deemed valid and subsisting except to the extent permitted by law, provided, however, that all other provisions of the Agreement will continue in full force and effect; and the parties to the Agreement will immediately meet and confer upon appropriate substitute provision or provisions.

#### **ARTICLE 7 - NON-DISCRIMINATION**

- 701 In accordance with applicable law, the City and TOCEA shall not illegally discriminate against any employee or applicant for employment or Union membership on the basis of race, color, religion, marital status, national origin, sex, gender, gender identity, gender expression, sexual orientation, age, military and veteran status, genetic information, medical condition, reproductive health decision making, disability, and/or any other protected classification under applicable state and federal law.
- 702 TOCEA shall support the City's Equal Employment Opportunity Policy to the extent that it complies with Federal and State rules, regulations and laws enacted to achieve equal employment opportunities.

## **ARTICLE 8 - CLASSIFICATIONS COVERED**

801 Employees covered by the terms of this Agreement shall be those employees in the classifications listed in Section 802 below. Any additional classifications developed during the term of this Agreement and included by the City shall be added to those classifications listed in Section 802. TOCEA shall be notified at least five (5) days before final adoption by the City Council when a classification in their unit is developed or eliminated.

802 Classifications for General Employee Unit.

- Accounting Assistant I
- Accounting Assistant II
- Accounting Specialist
- Accounting/Customer Service Representative
- Administrative Clerk I
- Administrative Clerk II
- Administrative Specialist
- Box Office Assistant
- Building Maintenance Tech I
- Building Maintenance Tech II
- Code Compliance Officer I
- Code Compliance Officer II
- Combination Bldg Inspector I
- Combination Bldg Inspector II
- Community Development Tech I
- Community Development Tech II
- Construction Inspector I
- Construction Inspector II
- Crossing Guard Crew Leader
- Custodial Crew Leader
- Custodian
- Customer Relations Assistant
- Customer Service Representative
- Engineering Aide
- Engineering Technician I
- Engineering Technician II
- Environmental Compliance Inspector I
- Environmental Compliance Inspector II
- Executive Secretary
- Field Service Representative
- Fleet Technician Assistant
- Fleet Technician Crew Leader
- Fleet Technician I
- Fleet Technician II
- Fleet Technician Welder I
- Fleet Technician Welder II
- Heavy Equipment Operator

Information Technology Technician I  
Information Technology Technician II  
Instrumentation & Electrical Technician  
Laboratory Assistant  
Laboratory Chemist  
Landscape Maintenance Crew Leader  
Landscape Maintenance Worker I  
Landscape Maintenance Worker II  
Legal Secretary  
Library Aide  
Library Assistant  
Library Page  
Mail Services Worker  
Payroll Specialist  
Plant and Equipment Mechanic  
Printshop Technician  
Purchasing and Inventory Worker  
Purchasing Specialist I  
Purchasing Specialist II  
Recording Secretary  
Records Management Specialist  
Rental Specialist  
Senior Accounting/Customer Service Representative  
Senior Administrative Specialist  
Senior Building Maintenance Technician  
Senior Code Compliance Officer  
Senior Combination Building Inspector  
Senior Community Development Tech  
Senior Construction Inspector  
Senior Environmental Compliance Inspector  
Senior Information Technology Technician  
Senior Instrumentation & Electrical Technician  
Senior Laboratory Chemist  
Senior Library Assistant  
Senior Printshop Technician  
Senior Purchasing and Inventory Worker  
Senior Purchasing Specialist  
Senior Recording Secretary  
Senior Records Management Specialist  
Senior Stage Technician  
Senior Theatre Worker  
Senior Video Production Specialist  
Senior WWTP Operator  
Stage Technician  
Street Maintenance Crew Leader  
Street Maintenance Worker I

Street Maintenance Worker II  
Street Sweeper Operator  
Transit Assistant  
Utilities Equipment Operator  
Utilities Maintenance Crew Leader  
Utilities Maintenance Worker I  
Utilities Maintenance Worker II  
Video Production Specialist  
Volunteer Specialist  
Water Systems Operator  
WWTP Operator I  
WWTP Operator II

## **ARTICLE 9 - PURPOSELY LEFT BLANK**

## **ARTICLE 10 - DEFINITIONS**

- 1001 As used in these articles and any rules or policies adopted pursuant to these articles, the following terms shall be defined as follows unless otherwise indicated.
- 1002 **Bereavement Leave** shall mean a process whereby an employee shall be entitled to leave with pay whenever the death of an immediate family member as defined in Article 32, occurs.
- 1003 **Business Day** is a day when City Hall is open to the public.
- 1004 **Catastrophe** shall mean a severe illness or injury which is expected to incapacitate, or has incapacitated, a full-time or designated part-time employee for an extended period of time and which creates a financial hardship because the employee has exhausted all of their accumulated paid leave.
- 1005 **Certification** shall mean the process whereby the Human Resources Director establishes a list of candidates' names who have successfully completed an examination process.
- 1006 **Change of Status** shall mean that employees who are transferred from permanent full-time to designated part-time or vice-versa, will retain their anniversary date for purposes of vacation, annual leave, and/or service award recognition.
- 1007 **City** shall mean the City of Thousand Oaks, a municipal corporation, and where appropriate herein, "City" refers to City Council, the governing body of said City, or any duly authorized management employee.



- 1008 **City Manager** shall mean the administrative head of the government of the City appointed by and under the direction and control of the City Council.
- 1009 **Classification** shall mean positions sufficiently similar in duties, authority, and responsibility to permit grouping under a common title in the application with equity of common standards of selection, promotion, transfer, demotion, and salary.
- 1010 **Classification Plan** shall mean a grouping together of positions into classes, and classes into series.
- 1011 **Classification Series** shall mean a group of classifications of the same general character of work but differing as to level of difficulty and responsibility.
- 1012 **Competitive Service** shall mean all positions of employment in the service of the City, except those specifically excluded by the Thousand Oaks Municipal Code.
- 1013 **Day** shall mean a calendar day unless otherwise stated.
- 1014 **Demotion** shall mean the movement of an employee from one classification to another classification having a lower maximum rate of pay. This movement may be through a recruitment or selection process or through non-competitive means.
- 1015 **Department Head** shall mean an officer of the City designated by the City Manager as responsible for the operations of a City department or their designee.
- 1016 **Designated Part-Time (DPT)** shall mean a designated permanent part-time position as being one allocated in the budget and filled with an employee who is scheduled to work a minimum of 20 hours and a maximum of 30 hours a week on an ongoing basis. These positions are allocated as part of the budget process as approved by the City Manager's Office and the City Council.
- 1017 **Discrimination** shall mean any act, practice or course of conduct which constitutes or results in inequality of treatment of any person or group of persons because of race, color, religion, marital status, national origin, sex, gender, gender identity, gender expression, sexual orientation, age, military and veteran status, genetic information, medical condition, reproductive health decision making, disability and/or any other protected classification as defined in applicable state and federal law.
- 1018 **Dismissal** shall mean separation from service for disciplinary reasons.
- 1019 **Employment List** shall mean a list of names of persons who may be considered for employment with the City under specified conditions.

- 1020 **Employment Standards** shall mean the experience, educational, physical, medical, licensure, certification, training standards and other requirements and required skill, knowledge, and abilities for a classification as established by the Human Resources Director.
- 1021 **Examination** shall mean selection techniques used to measure the relative capacities of the persons applying for positions within the competitive service.
- 1022 PURPOSELY LEFT BLANK.
- 1023 **Full-Time Employee** shall mean any probationary or permanent employee, hired into a budgeted position, who is scheduled to work a 40-hour week.
- 1024 **General Employee** shall be defined, under this Agreement, as those employees who hold positions in classifications which have been included in the Unit represented by TOCEA.
- 1025 **Hourly Employee (To Replace Temporary Employee)** shall mean a person employed on a day-to-day basis who is compensated on an hourly basis, receives no benefits and works less than 1,000 hours in a 12-month period.
- 1026 **Layoff** shall mean the separation of employees from the active work force due to the lack of work, funds, or the abolition of positions by the City Council.
- 1027 **Limited Term Position** shall mean a position allocated in the budget to meet short-term objectives and may be phased out upon completion of assigned work programs through a particular date. The incumbent will be laid off if the position is eliminated from the City's budget regardless of any Agreement in force.
- 1028 **Management Employee** shall mean any management employee as designated by the Classification Plan. A management employee directs the work of supervisors and/or professionals of a specific Division including several functions or programs as designated by the City.
- 1029 **Miscellaneous Account** shall mean an account in which the safety award, employee's floating holiday pay, employee time bank hours and DPT in lieu of holiday pay is credited.
- 1030 **Permanent Employee** shall mean an employee hired into a budgeted position for an indefinite period of time and who has successfully completed the probationary period.
- 1031 **Personnel Action Form** shall mean the document approved by the Human Resources Director which is used to make any appointment to, separation from, or any change in the employment status of an employee.

- 1032 **Position** shall mean a group of duties and responsibilities in the competitive service requiring the full-time or part-time employment of one person.
- 1033 **Probationary Employee** shall mean an employee who is serving during their probationary period.
- 1034 **Probationary Period** shall mean a working test period during which employees are required to demonstrate their fitness for the positions to which they are appointed by the actual performance of the duties assigned to the positions. The probationary employee has no right to appeal disciplinary action and has no property interest in continuing employment.
- 1035 **Promotion** shall mean the movement of an employee from one classification to another having a higher maximum rate of pay.
- 1036 **Provisional Appointment** shall mean an appointment of a person who possesses the minimum qualifications established for a particular classification and who has been appointed to a position in that classification in the absence of available candidates.
- 1037 **Provisional Employee** shall mean an employee who has been granted a provisional appointment.
- 1038 **Range Change** shall mean the movement of a classification pay range from one range to another.
- 1039 **Reassignment** shall mean a change within a department of an employee from one position to another position in the same classification or in a comparable classification.
- 1040 **Reclassification** shall mean the reallocation of an individual position or group of positions or group of similar positions to a higher classification, a lower classification, or to another classification at the same level on the basis of substantial changes in such things as the nature, difficulty, and/or responsibility of duties performed in such positions.
- 1041 **Reemployment** shall mean the reappointment of an individual who has been laid off from City employment.
- 1042 **Reinstatement** shall mean the appointment of an individual who held a permanent position and voluntarily resigned from City employment.
- 1043 **Review Date** shall mean the date upon which an employee is due for an employment performance review.



- 1044 **Seniority** shall mean continuous City service, including probationary periods successfully completed. Unpaid leaves of absence do not count for length of service, unless required by law.
- 1045 **Supervisory Employee** shall mean any supervisory employee as designated by the classification plan. In addition, a supervisory employee is defined as spending at least 50% of work time providing full supervision typically to three or more employees as designated by the City.
- 1046 **Suspension** shall mean the temporary separation from service of an employee, without pay, for disciplinary purposes.
- 1047 **Termination** shall mean voluntary or involuntary separation of service.
- 1048 **Transfer** shall mean a change between departments of an employee from one position to another position in the same classification or in a comparable classification. This may also be referred to as a Lateral Transfer.
- 1049 **Y-Rate** is a rate that is higher than the top step of a classification occupied by an employee and shall occur when an employee is moved to a different classification where the top step of the new salary classification is lower than the incumbent's regular rate of pay, the incumbent's rate of pay at the time the employee is moved.

#### **ARTICLE 11 - CODE OF ETHICS**

See applicable Administrative Policy No. 16.005.

#### **ARTICLE 12 - RECRUITMENT, SELECTION & CLASSIFICATION**

See applicable Administrative Policy No. 16.006. See also, Human Resources desk process regarding "Classification Review Process."

#### **ARTICLE 13 - REINSTATEMENT POLICY**

- 1301 An employee who terminates employment in good standing may be reinstated to a vacant position in their former job classification within two (2) years of their termination date without requalifying for employment by competitive processes.
- 1302 An employee reinstated within ninety (90) days of termination date shall be considered to have continuous service and shall be credited with the amount of accumulated sick leave at the time of termination, be placed in their former salary step and vacation accrual rate and shall retain their review date for purposes of merit pay increases. If a review date has occurred during the period of absence, the new review date shall be effective the date of the reinstatement.

- 1303 An employee reinstated after ninety (90) days of their termination date shall be considered to have a break in continuous service for purposes of salary step status and for all other employee benefits.

#### **ARTICLE 14 - TRANSFER**

- 1401 A transfer from one department to another shall require the approval of the Department Head from which and to which the employee is transferring.
- 1402 Such a transfer shall be initiated by request of the Department Head or the employee, and such requests shall be effectuated if authorized by the Human Resources Director.
- 1403 A transferred employee, as defined in Section 1048 above which include Transfers pursuant to Section 1401 above, shall retain their rate of pay and review date for purposes of merit pay increases.

#### **ARTICLE 15 - LAYOFF AND REEMPLOYMENT**

- 1501 Layoff and Reemployment Purpose: This article provides a means to determine which employees are to be demoted or laid off when a reduction in force occurs.
- 1502 Definition - Layoff:
- A. A layoff means a separation resulting from lack of work, lack of funds, abolishment of a position, or elimination or reduction in service level as considered necessary by the City.
  - B. A layoff is not disciplinary action.
  - C. A layoff may affect one or more departments and/or classifications as the needs of the City dictate.
  - D. Except as provided herein, the employee holding such a position or employment may be laid off or demoted without the right of appeal.
- 1503 Written Notice of Layoff: The Human Resources Director shall send written notice by registered mail to the last known address of each employee affected by a layoff at least fourteen (14) days prior to the effective date of the action or shall be personally delivered to the employee. The notice shall include the:
- A. reason for layoff; and
  - B. effective date of the action; and
  - C. seniority of the employee; and
  - D. an explanation of how the seniority was determined or computed; and
  - E. conditions governing retention on employment from reemployment lists; and
  - F. articles regarding the waiver of reemployment and voluntary withdrawal from the reemployment list.
- 1504 Employees who are laid off shall receive one (1) week of leave with pay for every year worked at the City; any employee laid off shall receive at least a minimum of

four (4) weeks of leave with pay, and no more than a maximum of up to six (6) weeks.

1505 Non-Discrimination in Reduction in Force: Layoffs and demotions which result from a reduction in force shall be made in a manner consistent with Article 7, Non-Discrimination.

1506 Order of Layoff: The order of layoff of employees shall be made on the basis of employees' seniority.

1507 Seniority – Definition:

- A. Seniority shall be defined as continuous City service, including probationary periods successfully completed. Leaves of absence do not constitute a break of service, but do not count for length of service. Breaks in service for employees who previously were reinstated in accordance with Article 13, Reinstatement Policy, will be considered for seniority as per that Article and Section.
- B. Seniority for designated part-time employees will be defined as a combination of continuous City service as a full-time employee, if any, including probationary periods successfully completed, plus continuous City service as a designated part-time employee, including probationary periods successfully completed.
- C. The continuous City service as a designated part-time employee will be prorated on the basis of hours actually paid. Designated part-time employees cannot bump full-time employees. Seniority will be used to determine the order of layoff or bumping rights for designated part-time employees.

1508 The order of layoff shall be as follows:

- A. The names of all employees occupying positions in said class shall be listed in the order of their lengths of continuous service in said class or in higher classes in the same job series.
- B. Employees will be laid off in the inverse order of their length of continuous service in their classification or in higher or equal class. Length of continuous service is determined based upon date of hire in the classification and higher classifications in the same job series.
- C. When employees have equal length of continuous service in a classification or higher class in the same job series, the employee with the greater length of continuous service with the City shall have the highest retention priority.



- 1509 Exceptions to Layoff Seniority: Whenever the Human Resources Director believes that the best interest of the City requires the retention of employees with special qualifications, characteristics, skills and fitness for the work, the Human Resources Director may prepare a written request to the City Manager to grant an exception to the order of layoff after meeting and conferring with representatives of the recognized employee associations.
- 1510 Checkout Upon Layoff, Separation or Termination: Any employee who is laid off, terminated or who separates from service for any reason shall turn in to their supervisor all City-owned equipment, including their City identification card and clear with their Department Head the disposition of any clothing, tools uniforms, pagers, phones, computers, or other working materials that have been provided to the employee by the City and shall complete all exit interviews and forms which may be required by the City Manager.
- 1511 Bumping: The order of bumping shall be determined in the same manner in which a layoff is determined under Sections 1506, 1507 and 1508. Employees designated to be laid off may bump in the following order:
- A. First, to any vacant position in the same classification within their department for which they are qualified.
  - B. Second, into any positions of the same classification held by an employee with lesser seniority elsewhere in the department.
  - C. Third, if no such position exists within the Department, employees designated to be laid off may bump into any vacant position in the same classification within the City for which they are qualified.
  - D. Finally, if no such position(s) exists, the employee may bump into the next classification within the same department, provided that the employee has previously held permanent status in such classification with the City, or has held permanent status in the same classification series with the City as determined by the Human Resources Director, is qualified for the position and at least one of the incumbents in the bumped classification has less seniority than the employee exercising bumping privilege.
- 1512 An employee wishing to exercise their bumping right must submit a request in writing for such action to the Human Resources Director within five (5) working days of receipt of notice of layoff.
- 1513 Employees bumping to a lower or similar classification shall be placed at the salary step representing the least loss of pay.
- 1514 The employee laid off as a result of a laid off employee's bumping to a lower classification shall receive a written notice of layoff not less than fourteen (14) days prior to the effective date of the layoff.
- 1515 Once an employee has been laid off or bumped the employee shall be considered as "meeting job standards" for purposes of additional bumping or layoff.

1516 Reemployment List:

- A. The names of persons laid off or voluntarily demoted into a lower classification as a result of a layoff shall be entered on a reemployment list for their formerly held, higher classification, in order of their length of continuous service.
- B. Lists from different departments or at different times for the same classification of position shall be combined into a single list.
- C. Such list shall be used by the Human Resources Director when a vacancy arises in the same or lower classification of position before certification is made from an eligible list.

1517 Reemployment:

- A. An employee who has been laid-off or taken a voluntary demotion in lieu of layoff to a lower class may be reemployed to a vacant position in their former job class within two (2) years of the effective date of the voluntary demotion or layoff in the order of their length of service within their classification or a higher classification in the same job series, from the longest length of continuous service to the shortest length of continuous service.
- B. An employee reinstated to their former job class from a voluntary demotion shall retain their rate of pay.
- C. If the rate of pay is not included in the salary schedule of the former job class, the employee shall be placed in the salary step of that salary schedule which is closest to their rate of pay.
- D. An employee shall retain the review date for purposes of merit pay increases; however, if placed in the base step of the salary schedule, they shall be eligible for a merit pay increase after completing the required amount of service.

1518 Notice of Recall:

- A. Notice of Recall from layoff shall be by Return Receipt - Registered Mail and by the last known personal email address and shall specify the date for reporting to work which shall not be more than fourteen (14) working days from the date the notice is received.
- B. Notice shall be deemed to have been received when sent to the last known address on file with the City and attempted delivery or delivery is certified by the Postal Service.
- C. Upon receiving notice, the person on layoff shall have ten (10) days to accept or decline the recall opportunity.
- D. Eligible persons not responding to written notification of an opening within ten (10) working days may have their names removed from the Reemployment list.

1519 Salary and Benefits on Reemployment: Reemployed employees will regain the same prior amount of service status and benefits as they had on the date of layoff.

- 1520 Resignation in Lieu of Layoff: An employee who elects to resign in lieu of layoff or voluntary demotion, or an employee who voluntarily wishes to resign in lieu of other employees being laid off or demoted, shall be placed on a reemployment list for two (2) years if requested by the employee.

## **ARTICLE 16 - SALARY**

- 1601 Salary increases during the term of the Agreement:
- A. Effective July 8, 2023, there shall be a 6.0% salary adjustment. Effective July 6, 2024, there shall be a 4.0% salary adjustment.
  - B. One-Time Payment: Effective July 8, 2023, employees shall receive a one-time, non-PERSable \$600 payment. Only employees that are active (employed by the City) as of July 1, 2023 are eligible for this payment.
- 1602 Policy: The City Council shall, by Resolution, establish a wage rate or salary schedule for each classification in the competitive service. The Human Resources Director is responsible for recommending such rates or schedules to the City Council. The wage rate or salary schedule for each class shall be such as to reflect fairly the similarities and differences in levels of duties and responsibilities and shall be related to compensation for comparable positions in private and public sector employment in the appropriate labor market.

Benchmark Survey: The City shall periodically collect total compensation market survey data and present such data to the bargaining unit. Such data shall be presented to the bargaining unit every five (5) years, several months prior to commencement of negotiations for a successor Memorandum of Understanding.

### General Market Review Methodology:

- A. Benchmark classifications within the Unit shall be surveyed by Human Resources or its agent no later than February in years when a General Market Review is conducted. Management shall give notice and the list of positions to be studied prior to the beginning of the Compensation Study and provide the Association fourteen (14) calendar days to submit up to three (3) classifications to be surveyed by the Human Resources Department or its agent.
- B. The benchmark classes will be compared to classes with similar duties and function within the comparator agencies.
- C. The survey shall ascertain the maximum salary; employer payment of the employee's retirement contribution; and agency contribution to deferred compensation, retiree health savings plan, cafeteria plan, medical plan, dental plan, vision plan, agency normal cost to retirement plan, life insurance, long-term disability, and Medicare for each of the counterpart classifications ("total compensation"). The survey agencies shall include: City of Burbank, City of Camarillo, City of Fullerton, City of Glendale, City of Irvine, City of Orange, City of Oxnard, City of Santa Clarita, City of Santa



Monica, City of Simi Valley, City of Torrance, City of Ventura, County of Ventura, Las Virgenes Municipal Water District, and Ventura Regional Sanitation District. For positions exclusively in the Cultural Affairs Department, survey agencies shall include: City of Cerritos, City of La Mirada, City of Long Beach Visitors and Convention Bureau, City of Palmdale.

- D. Prior to calculation of the market rate, the agency with the lowest total compensation and the agency with the highest total compensation shall be removed. For the remaining agencies, the market rate shall be the arithmetic mean of the total compensation of the counterpart classifications as described in C above.
- E. The tabulated data shall be provided to TOCEA and a meeting will be held between TOCEA and the City prior to any adjustment of the classification ranges.
- F. The City may elect to conduct a more comprehensive total compensation market survey in lieu of a benchmark classification study.

1603 Salary on Employment: Newly hired employees shall be compensated at the base step of the salary range of the job classification for which they are hired. When economic conditions, unusual employment conditions or exceptional qualifications of a candidate for employment indicate that a higher hiring rate would be in the City's best interest, the Human Resources Director may authorize hiring at a higher step in the salary range. The provisions of this section shall also apply to reinstated employees.

1604 Salary Ranges: General employees shall be assigned to a salary range consisting of seven (7) steps of approximately 5% increase in each step. The top step of the salary range will be based on the market rate, e.g., the average of the top step of comparable positions in comparable agencies. Salary ranges will also be set in consideration of internal pay relationships.

1605 Increases in Pay Within the Salary Range: Any step increase within a salary range is not automatic and shall be granted only for continued meritorious and efficient service by the employee in the effective performance of their duties.

1606 Eligibility for Increases Within the Range: An employee is eligible for consideration of a step increase consisting of approximately 5% as follows:

- A. A new employee or an employee newly appointed or promoted through a competitive process to a new classification is eligible for a review and step increase after completion of six (6) months of service.
- B. Succeeding step increases from the second step "2" to the third step "3", from the third step "3" to the fourth step "4", from the fourth step "4" to the fifth step "5", from the fifth step "5" to the sixth step "6", or from the sixth step "6" to the seventh step "7" may be granted upon completion of one (1) year of service in step "2" or "3" or "4" or "5" or "6".

- 1607 Exceptional Salary Increases: Any increase greater than one (1) step or any increase granted more frequently than provided for in these articles must be approved in advance by the City Manager.
- 1608 Effective Date of Increase: Step increases, if granted, will be effective on the date indicated on the Personnel Action form. A Personnel Action form will be processed in the payroll period of the employee's review date unless the supervisor notifies Human Resources that the employee will be receiving a rating of less than "good work" (2.0).
- 1609 Step Increases Not Granted: When an employee is not granted a step increase, the employee may be considered for such advancement at a subsequent time interval as deemed appropriate by the Department Head. Since any step increase is not automatic, any withholding, denial or delay in granting such an increase does not constitute disciplinary action and is not subject to appeal by the employee.
- 1610 Salary on Downward Reclassification: An employee reclassified to a lower job classification for other than disciplinary reasons shall retain their rate of pay and the salary review date for purposes of step increases or shall be placed in the step of the lower salary schedule closest to their current rate of pay. If the top step of the salary schedule of the lower job class is lower than the incumbent's rate of pay, the incumbent's rate of pay shall be identified as the "Y" step of the lower salary schedule. An employee compensated at a "Y" step because of a downward reclassification shall remain in the "Y" step until such time as the top step rate of pay of their job classification exceeds the "Y" step or be assigned to a salary schedule in which the top step is equivalent to or higher than the "Y" step, at which time the employee shall be placed in the top step.
- 1611 Salary on Lateral Reclassification: An employee reclassified with their position to an equivalent job classification shall retain their rate of pay and their salary review date for purposes of merit pay increases.
- 1612 Salary on Promotion: An employee who is promoted to a higher job classification shall be placed in the step of the higher Salary Schedule that will provide a pay increase of not less than 5% except when the top step of the higher salary schedule provides a lesser pay increase.

The employee shall be given a new review date for purposes of merit pay increase. When economic conditions, unusual employment conditions or exceptional qualifications of a candidate for promotion or reclassification indicate that a higher pay rate would be in the City's best interest, the Human Resources Director may authorize appointment at a higher step in the Salary Schedule.

- 1613 Salary on Upward Reclassification: An employee who is reclassified to a higher job classification shall be placed in the step of the higher salary schedule that will provide a pay increase of not less than 5% except when the top of the higher

salary schedule provides a lesser pay increase. The review date for purposes of merit pay increases will remain the same.

- 1614 Salary Range Change: An employee who is reassigned to a higher salary range shall be placed in the nearest step of the higher Salary Schedule without experiencing any loss in pay. The employee's review date for purposes of merit pay increases will remain the same.
- 1615 Priority of Increases: When more than one (1) personnel action involving changes in an employee's salary step status becomes effective on the same day, all changes shall be in accordance with the provisions of the preceding sections of this article, and shall take place in the following order of precedence: 1) step increase or reduction in salary step; 2) adjustment to same salary step in newly authorized salary schedule; 3) promotion, demotion, or reclassification; 4) general wage adjustment.
- 1616 Leaves of Absence and Salary Increases: Any authorized leave of absence without pay for 30 days or more shall require an adjustment in the employee's review date in an amount equivalent to those days in excess of 30 days. Leave without pay in excess of 30 consecutive days will not accrue toward seniority. Step increase, review and anniversary dates will be adjusted accordingly.
- 1617 Salary on Involuntary Demotion: An employee who is involuntarily demoted shall be placed in the step of the lower salary range that will provide a reduction in pay of five (5) percent or to the top of the lower salary range, whichever is lower. The employee shall be given a new salary review date for purposes of step increases. Except, however, employees demoted pursuant to a layoff who exercise their bumping rights shall be placed at the salary step representing the least loss of pay.
- 1618 Salary on Voluntary Demotion: An employee who takes a voluntary demotion to a lower job classification will retain their current rate of pay provided it is within the salary schedule of the new job classification. If the corresponding salary step is not included, the employee will be paid at the salary step of the salary schedule which is closest to (but does not exceed) their current rate of pay.
- 1619 Reinstatement and Salary after Voluntary Demotion: An employee who has taken a voluntary demotion to a lower job classification may be reinstated to a vacant position in their former job classification within two (2) years of the effective date of the voluntary demotion without requalifying by competitive processes. An employee reinstated to their former job class from a voluntary demotion shall retain their current rate of pay. If the rate of pay is not included in the salary schedule of their former job classification, the employee shall be placed in the salary step of that salary schedule which is closest to their current rate of pay. The review date shall be retained for purposes of step increases; however, if placed in the base step of the salary schedule, the employee shall be eligible for

a step increase after completing the required amount of service according to the Salary Resolution or their original anniversary date, whichever is sooner.

#### **ARTICLE 17 - OUT-OF-CLASS ASSIGNMENT**

1701 When, in the determination of the Department Head and with the approval by the Human Resources Director or designee, an employee is specifically assigned in writing to perform all of the significant duties of a higher classification for eighty-one (81) or more consecutive hours in cases of a temporary vacancy (e.g., due to vacation or sick leave), or after forty (40) hours in cases of a permanent vacancy (e.g., due to retirement), the employee so assigned shall be compensated at the minimum rate established for the higher class or 5% above the employee's regular base rate of pay, whichever is greater, with pay effective upon the date of the change of assignment. Under no circumstances shall the employee receive an amount greater than the maximum step of the higher class. For purposes of this Article, the out-of-class workweek shall begin on the day the employee begins the duties of the higher classification, as specified in the written assignment.

A. Theatre Lead Differential.

Upon approval of the Cultural Affairs Director, or designee, an employee may be assigned to serve as supervisor for a workday. When an employee working in the theatre is provided such assignment, they shall receive compensation equal to 5% above the employee's regular base rate of pay. The additional lead differential compensation shall be effective on the first day of such assignment for positions in the theatre only.

1702 This policy shall apply in temporary situations due to:

A. The vacation, sick leave, or other temporary absence of the employee in the higher classification.

B. Or if the position to be filled is vacant and there is no valid eligibility list for the classification. In this case, if the Department Head has initiated procedures to fill the vacancy on a permanent basis, they may assign an employee to fill that position on a temporary basis. If an eligibility list exists for the vacant position, the Department Head may appoint an employee from the eligible list at the earliest possible date.

1703 No permanent positions shall be filled by out-of-class appointees for a period longer than sixty (60) days, except when due to special circumstances such as extended leaves of absence or in cases of emergencies as approved by the Human Resources Director. In no circumstance will the City appoint any employee to any out-of-class assignment/appointment for more than a total of 960 hours per fiscal year.

1704 Individuals hired specifically to temporarily fill a position vacancy due to illness, vacation, etc. are also excluded from working out-of-class.



- 1705 Individuals appointed to work out-of-class must meet minimum qualifications of the higher classification and must be capable of handling major duties of the higher-level classification without any more supervision than another would in the same job.
- 1706 The mere performance of certain portions of the higher position or only performing the less difficult parts until the position is filled, does not constitute working out-of-class.
- 1707 When an employee is assigned to work in a higher-level classification that entails moving the employee into a classification represented by an employee unit other than that which represents their regular classification, the employee shall not receive a change in their benefits. Similarly, an hourly employee temporarily filling a regular position shall receive no benefits, nor shall they be subject to CalPERS retirement system payments.
- 1708 While working in an out-of-class assignment, an employee shall continue to accrue, and have recorded, normal step increases in the employee's regular position.
- 1709 At the time an employee returns to their regular position, their salary should reflect the same salary rate they had previously, with any merit or salary adjustments added as appropriate. At any time during the out-of-class appointment, an employee may be removed from that appointment without the right of appeal or hearing.
- 1710 The City shall not rotate employees in and out of higher position classification assignments in order to avoid paying out-of-class compensation.

#### **ARTICLE 18 - OVERTIME**

- 1801 Premium Pay Policy: It is the policy of the City to minimize the amount of overtime required of City employees. No general employee shall work overtime unless so authorized by their Department Head or representative.
- 1802 Overtime is defined as all hours worked in excess of an employee's regularly scheduled workday or workweek.
- 1803 For purposes of determining eligibility for overtime, hours worked shall include paid time off for holidays, compensatory time off (CTO), vacation leave, sick leave, jury duty and bereavement leave.
- 1804 Overtime shall be earned and calculated to the nearest one-quarter hour.
- 1805 Full-time employees in the competitive service who are assigned to and perform overtime shall be compensated for overtime at the rate of one and one-half times their regular rate.

- 1806 As an alternative to payment for overtime, an employee may, with the approval of the Department Head or designee, take CTO during the same seven-day work period that overtime is earned, or alternatively to bank the CTO. CTO shall be earned at the rate of one and one-half hours for each hour of overtime worked. The maximum accumulation of CTO shall be 40 hours. Any employees with a CTO balance in excess of 40 hours shall be paid overtime in lieu of CTO, and no additional CTO may be accrued.
- 1807 Upon recommendation of the Department Head and approval of the City Manager, the overtime requirements of Section 1802 above may be waived due to emergencies or other extenuating circumstances requiring employees to work extended consecutive hours.
- 1808 The regular rate shall include bilingual pay, certification pay, night shift differential, on-call pay and any other payments required to be included by the Fair Labor Standards Act ("FLSA"). The regular rate shall not include any payment for safety shoes, payments for reimbursements incurred on the City's behalf (i.e. temporary COVID-19 technology stipends) or the City's or employees' normal contributions to the Public Employees' Retirement System (PERS).
- 1809 It is also recognized that it has been and will continue to be the practice of the City to allow employees a reasonable amount of paid time, as determined by a Department Head, for employees to change clothes or clean up at the end of a workday. Such clean up time does not constitute hours worked under the provisions of FLSA.
- 1810 Provision of Meals:
- A. If an employee is required to remain at work for at least two (2) hours following the close of their regular work shift for the purpose of performing emergency overtime work, the City shall provide the employee with an adequate meal.
  - B. If an employee is called out to perform emergency overtime work, the City shall provide the employee with an adequate meal at four-hour intervals during the performance of such overtime work.
  - C. Mealtime shall be considered working time and shall be compensated for at the appropriate overtime rate.
  - D. The City shall not provide meals before, during, or after any overtime work which is scheduled in advance except as approved by the Department Head.
  - E. If a meal is not provided as required above, an eligible employee shall be compensated \$14 for breakfast, \$16 for lunch and \$18 for dinner.
- 1811 Rest and Recovery Time: See 2004 and 2005 below.

## **ARTICLE 19 - ON-CALL**

- 1901 An on-call assignment (also referred to as stand-by) is a requirement that an employee be available to return to duty outside their regular work week or work schedule where return to work is not intended to be contiguous with the employee's scheduled hours of work.
- 1902 During an on-call assignment an employee shall be available to return to work at any time and shall refrain from activities which might impair the ability to perform duties.
- 1903 Employees assigned on-call acting supervisory duties shall be compensated \$60 per "regular" workday, and \$100 per "non-regular" workday (holiday, weekend, regular day off). Assigned employees may be responsible to respond to emergencies from a remote location, via computer.
- 1904 Employees assigned on-call to respond to emergencies shall be compensated \$40 per "regular" workday, and \$80 per "non-regular" workday (holiday, weekend, regular day off). Assigned employees may be responsible to respond to emergencies from a remote location, via computer.
- 1905 PURPOSELY LEFT BLANK.
- 1906 Employees shall be entitled to receive overtime pay for all time performing work having responded to a call and/or returned to duty. Such overtime shall be earned and calculated to the nearest one-quarter hour of overtime worked.
- 1907 Employees' on-call hours shall not constitute hours worked under the FLSA.
- 1908 The City shall assign on-call status for periods of seven (7) days, as specified by management.
- 1909 Any employee required to be on-call and subsequently reports for duty shall receive a minimum of two (2) hours of paid overtime.
- 1910 Employees shall be entitled to rest and recovery time for having responded to a call and/or returned to duty if rest and recovery requirements are met. See 2004 and 2005 below.

## **ARTICLE 20 - CALL-OUT**

- 2001 An employee is called out if the employee is unexpectedly required to return to duty because of unanticipated work requirements if notice to return is given to the employee following termination of their normal work shift and departure from their regular work location.

- 2002 When any employee is called-out for emergency work, the employee shall be paid at the rate of one and one-half times the employee's regular rate for such emergency work.
- 2003 An employee who is not on-call and is called-out for emergency work shall be paid for a minimum of two (2) hours at one and one-half times their regular rate for such emergency work.
- 2004 An employee shall be eligible for rest and recovery if both of the following two conditions apply:
1. The employee is required to work beyond their regular shift or is called-out and actually works at least four (4) consecutive hours; and
  2. The employee has had less than 8 hours of continuous rest between the completion of the emergency work and the beginning of their next regularly scheduled work shift.

An employee eligible for rest and recovery time shall not be required to report to work on their next regularly scheduled work shift for up to eight (8) hours after the completion of the emergency work and shall receive full pay for any regularly scheduled hours not worked up to (8) hours.

To ensure the City can appropriately respond to matters involving public health and safety, employees On-Call pursuant to Article 19 must continue to respond to emergency calls up until the start time of their next regularly scheduled work shift, at which point they may begin their rest and recovery, if eligible, in accordance with Section 2005. Rest and recovery time is paid at the employee's base rate of pay (not overtime). In the event the on-call employee is fatigued and requires rest due to extended time worked, the on-call supervisors will endeavor to re-assign and relieve staff for a 24-hour period.

#### Examples:

- A. If an employee is On-Call pursuant to Article 19 and gets called out multiple times on their regularly scheduled days off and their last call-out is four (4) hours or more but ends eight (8) hours or more before their next regularly scheduled start time, they are not eligible for rest and recovery. However, if their last call-out is four (4) hours or more and ends less than eight (8) hours before their next regularly scheduled start time, they are eligible for rest and recovery. They must continue to receive and respond to stand-by calls until the beginning of their next regularly scheduled shift, and then apply rest and recovery in accordance with Section 2005.
- B. If an employee is not On-Call and gets called out, and/or works beyond the end of their regularly scheduled shift for a period of four (4) consecutive hours or more, and the time between the end of their emergency work and the beginning of their next regularly scheduled shift is less than eight (8) hours, that employee would be



eligible for rest and recovery time. That employee would not be required to report to work until eight (8) hours have passed after completion of the emergency work and rest and recovery time would be applied in accordance with Section 2005.

2005 At the employee's option, and with the approval of the supervisor, employees may elect to:

- A. 1) Apply rest and recovery time at the beginning of their next scheduled work shift and report to work for the remainder of that scheduled shift; or, 2) Apply rest and recovery time at the beginning of their next scheduled shift and use accruals such as vacation, sick leave or compensatory time for the remainder of their scheduled shift to achieve full compensation for that day.

For example, if an employee's regular schedule is 6:30 a.m. to 5:00 p.m. and that employee is called out to work for at least four (4) consecutive hours, with emergency work ending at 2:00 a.m., that employee is not required to report back to work until 10:00 a.m. That employee may report back to work at 10:00 a.m. and complete the workday on regular time, or they may request authorization to use accruals between the hours of 10:00 a.m. and 5:00 p.m. (exclusive of lunch time) to account for the full workday. In either scenario, the hours of 6:30 a.m. to 10:00 a.m. will be compensated as rest and recovery time.

- B. Stay on the job and use the rest and recovery at the end of their shift to complete the remainder of their regular work shift. For example, if an employee's regularly scheduled time off begins at 5:00 p.m. and the employee's regular start time is 6:30 a.m., and the employee is called-out at 12:30 a.m., works at least four (4) consecutive hours prior to the beginning of their next regularly scheduled work shift, upon supervisory approval the employee may elect to work until 9:00 a.m. and then receive eight (8) paid hours of rest and recovery time ending at 5:00 p.m.

2006 An employee who has completed their workday or workweek and who is not on call but is required to perform work via the telephone or computer or electronic device from a non-City location shall be allowed to report the time spent on such a call as time worked. This time worked shall be paid as overtime, if and only if, the employee is otherwise eligible for overtime payments. Overtime shall be earned and calculated to the nearest one-quarter hour of overtime worked.

## **ARTICLE 21 - PURPOSELY LEFT BLANK**

## **ARTICLE 22 - NIGHT DIFFERENTIAL**

2201 A differential will be paid to employees according to the following provisions:

- A. Employees who, on a regular basis, work the majority of an assigned day between the hours of 5:00 p.m. and 8:00 a.m. are eligible for a 5% differential payment for their full day.

- B. The 5% differential is only paid on a regular assigned day actually worked and not payable on paid time off.

### **ARTICLE 23 - BILINGUAL PAY**

- 2301 Permanent employees will be compensated when their position requires the use of bilingual skills according to the following provisions:
- A. The predominate and primary focus of an employee's job must be to use another language to communicate in person or by telephone with members of the public in connection with providing City services.
  - B. Or the employee, on a regular ongoing basis, in the course of carrying out their normal job duties, must be called upon to use another language in communicating with members of the public.
  - C. Or the employee, on a regular basis, must be called upon to provide interpretation or translation for other City employees in connection with the performance of official duties of such other employees.
  - D. To be eligible to receive this payment requires the recommendation from the Department Head and approval of the Human Resources Director, who shall require a demonstration of proficiency in bilingual communications. The form entitled "Request to Receive Bilingual Pay" was designed for this purpose and must be completed and approved prior to the completion and submittal of a Personnel Action Form.
  - E. Employees shall be compensated \$40.00 bi-weekly.

### **ARTICLE 24 - LICENSES AND CERTIFICATIONS**

- 2401 Employees licensed or certified as Cross-Connection Specialists, Pesticide Applicators and Arborists will receive \$1,000 annual differential for as long as they are assigned and work for the City and maintain a valid license or certificate.
- 2402 Employees certified as either a Master Automotive Technician or Master Medium/Heavy Truck Technicians shall receive \$1,000 annual differential.
- 2403 If employees possess and utilize both certifications in the course of performing their duties, they shall receive a maximum of \$1,000 annual differential for as long as they are assigned and work for the City and maintain a valid license or certificate.
- 2404 The City shall pay for the required testing and training for continuing educational units/contact hours and professional membership cost for all job required certifications. Any certifications related to the classification shall be paid only with the approval of the Department Head or their designee.

### **ARTICLE 25 - WORK SCHEDULES**

- 2501 Overall policy for work schedules:
- A. This policy provides a uniform set of guidelines relating to work hour schedules as set by the City. Alternate work schedules may be permitted or required of employees in those departments where it will not result in a

reduction in the quality or level of service as authorized by the appropriate Department Head and approved by the City Manager.

- B. The City agrees that the normal work schedules for full-time employees in the competitive service who are based at City Hall shall be eighty (80) work hours per nine (9) days in a two-week period, i.e., every other week, employees will have a Regular Day Off. A Department Head has the discretion to assign the Regular Day Off within the two-week period. The Regular Day Off shall normally be part of three (3) consecutive days, including a weekend.
- C. A Department Head shall only require an employee to involuntarily transfer to a work schedule for good and sufficient business reasons.
- D. All time sheets shall indicate time reported to work and time left work. Hours of work shall indicate the exact number of hours worked, e.g., 9 hours, 8 hours, 10 hours, 4 hours, etc. (Example: If a person on the 9/80 is scheduled to work from 7:00 a.m. to 4:30 p.m. with a ½ hour lunch, the time of 9 hours shall be recorded).
- E. Vacation and sick leave hours taken shall be recorded as the exact number of hours taken, e.g., 9 hours, 8 hours, 10 hours, 4 hours, etc. (Example: If a person is scheduled to work 10 hours, 10 hours of leave shall be recorded).
- F. If compensatory time or overtime is earned over and above your regular work schedule of 9 hours, 8 hours, 10 hours, etc., those hours are to be recorded on the time sheet. (Regular is defined as the normal hours per day per the schedule which is assigned).
- G. Time sheets shall be electronically signed in the City's electronic timekeeping system by each individual employee.
- H. The work period shall be consistent with the provisions of the FLSA.

2502 9/80 Work Schedule:

- A. Employees permitted or required to work on a 9/80 schedule shall have their work week defined as forty (40) hours each week to comply with the provisions of the FLSA. For all employees working a 9/80 work schedule, their workweek shall begin exactly four (4) hours into their eight (8) hour shift on the day of the week which constitutes their alternating regular eight (8) hour day. Regular work hours for the 9/80 schedule will be 9 hours/day.

2503 4/40 Work Schedule:

- A. Employees who work a 4/40 work schedule typically work 10 hours/day for four (4) consecutive days. Regular work hours for the 4/40 schedule will be 10 hours/day.

2504 5/40 Work Schedule:

- A. Employees who work a 5/40 work schedule typically work eight (8) hours/day for five (5) consecutive days. Regular work hours for the 5/40 schedule will be eight (8) hours/day.

- 2505 Lunch Periods and Rest Breaks: All employees shall regularly take at least a ½-hour lunch break. Two (2) breaks are available to be taken, one at mid-morning and one at mid-afternoon per department scheduling policies. The workday hours shall not be reduced by break time not being taken. Lunch and breaks cannot be accumulated toward time worked. The rest periods and lunch break shall not interfere with the completion of regular or emergency work. If approved in advance by the Department Head or designee, employees may be allowed or required on infrequent occasions due to special circumstances to work through their lunch break and have their workday hours for that day only adjusted accordingly.
- 2506 Modification of Schedule: Per the staffing requirements as determined by the Department Head, arrival and departure times, meal and break times, length of workday, and number of workdays and work hours in any given pay period may vary from time to time as determined and authorized by the Department Head.
- 2507 Pay Days: Regular salaries and compensation of all City employees shall be paid on a bi-weekly basis. All current and newly hired employees shall participate in direct deposit for paychecks. The pay period is fourteen (14) calendar days. Payroll summaries shall normally be distributed on the following Friday. Paydays shall occur every other Friday. If paydays fall on a holiday, payroll summaries shall normally be distributed on the preceding day. If operational factors necessitate a delay in this normal schedule, payroll summaries shall be distributed as soon as possible.
- 2508 Employee Reimbursements: Employees shall participate in direct deposit for reimbursements for costs incurred during the normal course of work such as mileage reimbursement and travel reimbursement.

## **ARTICLE 26 – HOLIDAYS**

- 2601 Recognized Holidays: The following days shall be recognized as holidays for permanent and probationary employees:
- A. January 1<sup>st</sup>, New Year's Day
  - B. Third Monday in January, Martin Luther King's Birthday
  - C. Third Monday in February, President's Day
  - D. Last Monday in May, Memorial Day
  - E. July 4<sup>th</sup>, Independence Day
  - F. First Monday in September, Labor Day
  - G. November 11<sup>th</sup>, Veteran's Day
  - H. Fourth Thursday in November, Thanksgiving Day
  - I. Fourth Friday in November, Day after Thanksgiving
  - J. December 25<sup>th</sup>, Christmas Day



- 2602 And every day appointed by the President, Governor, or City Council for a public feast, Thanksgiving, holiday or in memoriam when specifically authorized by the City Council.
- 2603 Whenever any of the above listed holidays fall on a Sunday, the holiday shall be observed by the City on the following Monday. Whenever any of the above listed holidays fall on a Saturday, the preceding Friday shall be observed by the City as a holiday. Whenever any of the above listed holidays is observed by the City on a Friday or on a Monday which is an employee's regularly scheduled day off, the employee will be granted an equivalent number of hours of their regularly scheduled workday as floating holiday pay. As to the Library, the City shall have the ability to schedule closures in the Library on the day of the actual holiday.
- 2604 Floating Holiday: In the first pay period each January, full-time employees shall be granted two (2) ten-hour floating holidays, to be scheduled and taken in accordance with the best interest of the City and the department or division in which the employee is employed.
- 2605 Total Holiday Hours for Full-Time Employees: It is the intent of this Article to grant all full-time employees, regardless of their work schedule, one hundred and twenty (120) hours of holiday pay each calendar year. If the application of this Article results in an employee utilizing less than one hundred and twenty (120) hours of holiday pay, the difference between the holiday hours actually used and the one hundred and twenty (120) hours shall be credited to the employee's holiday hours account. Holiday hours shall be used in the calendar year in which they are earned and shall have no cash value. In the event an employee has not used all of their holiday hours by the end of the calendar year, employees will be able to carry over no more than 40 holiday hours into the following calendar year.
- 2606 PURPOSELY LEFT BLANK.
- 2607 Work on Holidays: General employees who are required to work on any of the aforementioned holidays, or days observed in lieu of those holidays, shall receive regular pay and will have the choice of receiving overtime pay at time and one-half or with approval of the Department Head accrue compensatory time off. If an employee who works on a holiday is deemed to work in excess of the 40-hour work week, then he/she shall instead be entitled to overtime compensation as defined in Article 18.
- 2608 Eligibility for Holiday Pay: To be eligible for holiday pay, a full-time employee must be at work or on authorized paid leave of absence on the regularly scheduled workday immediately preceding the holiday or day observed in lieu of the holiday and the regularly scheduled workday immediately following the holiday or day observed in lieu of the holiday. No employee who is on suspension or unpaid leave of absence on either the regularly scheduled workday immediately preceding or

immediately following the holiday or day observed in lieu of the holiday shall receive compensation for said holiday or day observed in lieu of the holiday.

2609 Holiday Closure:

- A. The City shall have a holiday closure at the City Hall facility and Municipal Services Center, with minimal holiday staffing at both libraries and the Hill Canyon Treatment Plant between December 26 and December 31 each year.
- B. Employees not specifically required to work shall use accrued vacation, CTO, miscellaneous, holiday hours, or leave without pay.
- C. Employees who experience a significant financial hardship due to leave banks which have been depleted or newly hired employees are subject to accommodation through meetings with the Human Resources Department and their bargaining unit representative.

2610 Miscellaneous Leave Account

Effective July 1, 2015, employees may continue to use any existing time in their miscellaneous leave account, but no additional time will be added to the miscellaneous leave account, other than the annual safety award. Employees hired July 1, 2023 or later will not be eligible for the safety award (APP 16.027).

**ARTICLE 27 – VACATION**

2701 Vacation Schedule: Full-time employees shall accrue and receive annual vacation leave in accordance with the following provisions:

- A. Each full-time employee shall have available 3.847 hours starting from the first day of probationary appointment.
- B. Vacation time will accrue on a bi-weekly basis for twenty-six (26) pay periods a year. Annual vacation accruals are as follows:

<b><u>Annual Hours</u></b>	<b><u>Bi-weekly Hours</u></b>	<b><u>Accrual Period for Years of Continuous Service</u></b>
100	3.847	From the beginning of the employee's employment up to the last day of the employee's third year of continuous service (1-3)
140	5.385	Beginning of the employee's fourth year of continuous service to last day of the employee's eighth year of continuous service (4-8)
164	6.308	Beginning of the employee's ninth year of continuous service to last day of the employee's thirteenth year of continuous service (9-13)
180	6.924	Beginning of the employee's fourteenth year of continuous service to last day of the employee's seventeenth year of continuous service (14-17)

196	7.533	Beginning of the employee's eighteenth year of continuous service to last day of the employee's twenty-second year of continuous service (18-22)
212	8.154	Beginning of the employee's twenty-third year of continuous service to the last day of the employee's twenty-seventh year of continuous service (23-27)
228	8.769	Beginning of the employee's twenty-eighth year of continuous service up to the last day of continuous service (28+)

2702 Use of Vacation: Paid vacation leave shall continue to accrue in accordance with the above provisions during any authorized period of leave with pay. All vacations shall be scheduled and taken in accordance with the best interest of the City and the department or division in which the employee is employed. The maximum amount of vacation that may be taken shall not exceed two hundred and sixty-eight (268) vacation hours in any calendar year unless specifically authorized by the City Manager.

2703 Annual vacations are provided for employees as a period of rest and relaxation. However, if an employee cannot take their vacation in any calendar year because of a need for their continuous service, the employee may, subject to approval of the City Manager, be allowed such vacation during the succeeding calendar year. The maximum allowable accrual of vacation is 600 hours. Once that maximum has been reached, the employee shall no longer accrue any vacation hours.

2704 Vacation Buy-Out: The City agrees to allow all general full-time employees to receive cash equal to the employees' daily base wage for up to 200 hours of vacation accrued but not taken provided the employee has taken or is scheduled to take 80 hours of vacation, miscellaneous, holiday, and/or CTO leave in the calendar year and will have at least 40 hours accrued vacation remaining after vacation has been taken and after vacation buyout. An employee or employees may exercise this option no more than twice during the calendar year. If the employee does not take off the required time during the time periods set forth herein as well as any other requirements specified in the Agreement between the City and TOCEA, the employee will not be able to exercise the option of cashing out vacation days for one (1) calendar year.

In calculating the hours of leave taken, employee donations of leave for purposes of catastrophic illness or injury shall be included.

2705 Reporting Vacation: Each employee shall have one-quarter hour deducted from their accrued vacation time for each quarter hour of vacation taken. Vacation time taken shall be recorded on the general employee's time sheet to the nearest one-quarter hour.

- 2706 Payment on Separation: Upon termination, an employee shall be compensated at their current rate of base pay for any accrued vacation, CTO, and miscellaneous leave on their final paycheck.
- 2707 Holidays Occurring While on Vacation: In the event that any recognized holiday occurs during any employee's vacation, the holiday shall not be charged against the employee's accrued vacation. The only vacation hours that shall be charged against any employee's accrued vacation shall be those hours that the employee is regularly scheduled to work.
- 2708 Illness on Vacation: Illness or accident during a regularly approved and scheduled vacation period shall be converted to sick leave when a physician has certified to the employee's physical incapacity.

## **ARTICLE 28 – SICK LEAVE**

- 2801 Employees will be expected to only use a limited amount of sick leave annually for occasional illness or injury. Employees are further expected to accrue a sick leave balance as a protection against the adverse effects of short or long-term absences due to a major illness or injury.
- 2802 Sick leave shall only continue during the period a unit employee is employed by the City. This article shall not give the employee any right to claim or receive any sick leave after separation from the City. Furthermore, the retirement of a City employee for any reason shall not be delayed nor, except as provided for in Section 2811, shall the employee be compensated for any sick leave accumulated and not used at the time of such retirement.
- 2803 Sick Leave Defined: Sick leave for employees shall be defined as an approved absence from duty by the Department Head or representative as the result of:
- A. Physical incapacity of the employee due to the employee's illness, injury or other medical disability.
  - B. Exposure to contagious disease which results in enforced quarantine of the employee in accordance with public health regulations.
  - C. Medical or dental office appointments.
  - D. Rest and recovery period (pursuant to Article 20, Call-out)
- 2804 Sick Leave Accrual: Full-time employees shall accrue annual sick leave at the rate of 3.6923 hours (equivalent to 96 hours annually) per pay period for twenty-six (26) pay periods per year. Sick leave shall accrue at the end of the pay period and may first be used in the following pay period. Sick leave that is accrued, but not used, may be carried over into the next calendar year.
- 2805 Reporting Sick Leave: Each employee shall have one-quarter hour deducted from accrued sick leave for each regularly scheduled one quarter working hour a portion thereof that the employee is on sick leave. Sick leave granted shall be recorded



on the general employee's time sheet to the nearest one-quarter hour. The only sick leave hours that shall be charged against an employee's accrued sick leave shall be those hours that the employee is regularly scheduled to work.

- 2806 Holiday Occurring While on Sick Leave: In the event that any paid holiday occurs during a period when any employee is on sick leave, the holiday hours shall not be charged against accrued sick leave.
- 2807 Illness or Injury While on Vacation: A unit employee may be eligible for use of sick leave while on vacation only if the requirements of Section 2708 are satisfied.
- 2808 Family Sick Leave: A unit employee, with the approval of their Department Head or representative, may be granted sick leave whenever an illness occurs to a member of the employee's immediate family. For the purpose of family and/or paid sick leave, immediate family shall include parent, grandparent, sibling, spouse, child, grandchild, parent of a spouse or registered domestic partner, child of a registered domestic partner, a member of the employee's immediate household, or a designated person (an employee may designate one (1) person per 12-month period at the time the employee requests sick leave). For the purpose of family sick leave, illness shall be defined as a situation in that the injured or ill family member requires immediate personal attention by the employee. Employees are expected to make suitable arrangements for the care of the injured or ill family member as soon as practicable following the actual illness or injury.
- 2809 Physician's Certificate: An employee absent on paid sick leave in excess of three (3) consecutive working days may be required by their Department Head and Human Resources to submit a written statement by a physician certifying that the employee's condition prevented the employee from performing their duties. The Department Head and Human Resources may also require a written statement that such employee is able to resume their normal duties.
- 2810 Expiration of Sick Leave: In the event the employee has used all accrued sick leave, the employee may request the use of accrued compensatory, vacation, miscellaneous, or holiday time, for each day of absence due to illness or injury.
- 2811 Sick Leave Credit/Cash-out:
- A. Sick leave not taken or cashed out will be credited at 100% on retirement when calculating an employee's total years of service credit upon retirement from City.
  - B. Employees who have accumulated at least 160 hours of sick leave are eligible to convert unused sick leave to cash at the rate of 50% for each hour not used between 1 to 48 hours, once during a calendar year. Employees must elect this choice in writing to the payroll section of the Finance Department and do so no later than March 30 each year.
  - C. If an employee elects this cash-out, the employee must receive the full amount that they are eligible for. Once a cash-out is made it cannot be

- returned to the City. An employee who receives a cash-out will have their sick leave hours reduced by the number of hours eligible for the cash-out.
- D. There is no payoff for sick leave upon separation from the City.

## **ARTICLE 29 – PREGNANCY LEAVE**

- 2901 Disabilities caused or contributed to by pregnancy, childbirth or related medical conditions, for all job-related purposes, shall be treated the same as non-service related disabilities caused or contributed to by other medical conditions, under any disability insurance or sick leave plan available in connection with employment.
- 2902 Written or unwritten employment policies and practices involving matters such as the commencement and duration of leave, the availability of extensions, the accrual of seniority and other benefits and privileges, reinstatement and payment under any disability insurance or sick leave plan, formal or informal, shall be applied to disability due to pregnancy, childbirth or related medical conditions on the same terms and conditions as they are applied to other such disabilities.
- 2903 The basic principle is that female employees affected by pregnancy and related conditions be treated the same as other job applicants and employees on the basis of their ability or inability to work. Leave under this Section will be deducted from the employee's Family and Medical Leave Act (FMLA) and Pregnancy Disability Leave (PDL) allotment.
- 2904 Pregnancy Leave: An employee whose attending physician has certified that they are physically incapacitated from performing their duties due to pregnancy or childbirth is eligible for leave from their job.
- A. An employee requesting pregnancy leave shall submit, in writing, their intent to take leave. An employee shall first use sick leave, and then any and all available leave time, before going into leave without pay status.
  - B. The leave request shall indicate whether the employee intends to return to work.
  - C. The request for pregnancy leave shall be submitted to the Department Head and the Human Resources Director and be accompanied by the statement from the attending physician. A Personnel Action form shall be issued which indicates the probable length of time of the leave and a leave of absence form.
  - D. In most cases, the length of time for pregnancy leave should not exceed four (4) months from last day worked. However, more or less time may be appropriate depending upon the physical condition of the employee. The form and length of time of the leave shall conform to the rules and regulations of this Agreement that deal with the particular forms of leave (e.g. sick leave, compensatory time, miscellaneous leave, vacation, holiday, and leave without pay).
  - E. Leave under this article is granted according to the health of the employee. Leave for purposes of childcare after the employee is medically able to

return to work shall be granted to the employee on the same basis as leave for other non-medical reasons.

- F. The City will continue to maintain and pay the premiums for health insurance coverage for up to four (4) months while the employee is out on pregnancy leave. The employee is responsible for paying the costs they had previously authorized towards premiums. If the employee does not return to work following pregnancy leave, the City may recover premiums it paid to maintain health insurance coverage unless:
1. The employee's inability to return to work is due to the continuation, recurrence, or onset of a health condition that entitles the employee to pregnancy disability leave, unless the employee chooses not to return to work following the leave;
  2. The employee has non-pregnancy related medical conditions requiring further leave, unless the employee chooses not to return to work following the leave; or
  3. There are other circumstances beyond the control of the employee.
- G. Upon the expiration of the pregnancy leave, the employee will be reinstated to their original or equivalent position, so long as it was not eliminated for a legitimate business reason during the leave.

#### **ARTICLE 30 – FAMILY LEAVE AND MEDICAL LEAVE**

See applicable Administrative Policy No. 16.026.

#### **ARTICLE 31 – INDUSTRIAL ACCIDENT LEAVE**

- 3101 Defined: In the event that any employee is absent from work as a result of any injury or disease which comes under the Workers' Compensation Act, such absence shall be considered to be industrial accident leave. Industrial accident leave shall be noted on the employee's time sheet.
- 3102 Compensation While on Industrial Leave: Any employee on industrial accident leave shall continue to be considered employed at regular base rate to the extent provided for in this Article. Pursuant to the City's Workers' Compensation insurance program, payments received by or to which the employee is entitled in accordance with the aforementioned Act shall be remitted to the Finance Department as a condition for the benefits due the employee under this Article.
- 3103 Length of Leave: Industrial accident leave shall begin the first day of such absence as defined in Section 3101 and shall continue for a total of not more than 173 hours.
- A. In the event that an employee who has returned to duty from industrial accident leave is subsequently absent from work as a result of the same injury or disease, such absence shall be considered to be a part of the original industrial accident leave.

B. Industrial accident leave benefits provided by this Article shall apply to each unrelated injury or disease as defined in Section 3101.

3104 Vacation and Sick Leave: No general employee shall have accrued sick leave or vacation deducted while on industrial accident leave of 173 hours. Vacation and sick leave shall continue to accrue for any employee on industrial accident leave in accordance with the provisions of Article 27, Vacation, and Article 28, Sick Leave.

3105 Filing of Report: All injuries sustained in the course of employment shall be reported at once to the employee's supervisor who shall notify their supervisor and file a written accident investigation report to the appropriate Department Head. When applicable, the employee shall file a completed Workers' Compensation claim with Human Resources. Human Resources staff shall review and sign the Workers' Compensation claim and submit it for processing with the City's third-party administrator.

## **ARTICLE 32 – BEREAVEMENT LEAVE**

3201 Any use of bereavement leave requires notification of the Department Head. Employees shall be entitled to three (3) working days leave with pay whenever the death of their immediate family member occurs. Immediate family for purposes of this Article is defined to include the following: employee's parent, sibling, spouse, child, grandparent, grandchild, or child-in-law; spouse's parent, sibling, children, grandparent, grandchild, or the same relatives of a registered domestic partner; employee, spouse's or registered domestic partner's stepfamily (parent, sibling, child, grandparent, grandchild); former legal guardian, or immediate household member.

3202 Any authorized leave necessary in excess of three (3) days bereavement leave with pay shall be chargeable to compensatory time, holiday hours, miscellaneous, sick leave or vacation leave, in that order, as approved by the Department Head.

3203 Employees shall be entitled to five (5) working days leave with pay whenever the death of an immediate family member necessitates traveling out of state or the country.

3204 Bereavement leave shall be completed within three (3) months of the death of the family member. Total paid bereavement leave shall not exceed 80 hours each calendar year.

## **ARTICLE 33 – MILITARY DUTY LEAVE**

3301 City policy relating to military leave, the extent of compensation and other benefits, while on such leave shall be in accordance with City Council Resolution 2001-180 and with the provisions of all federal and state laws.



3302 Employees entitled to military leave shall give their Department Head an opportunity, within the limits of military regulations, to determine when such leave shall be taken.

3303 Active Military Duty commences when the employee has expired all the compensation provided for in the Military and Veteran's Code of the State of California.

#### **ARTICLE 34 – CATASTROPHIC LEAVE POLICY**

See applicable Administrative Policy No. 16.004.

#### **ARTICLE 35 – JURY AND WITNESS DUTY POLICY**

See applicable Administrative Policy No. 16.003.

#### **ARTICLE 36 – PERSONAL COURT APPEARANCE**

3601 A full-time employee necessarily absent from work in response to a subpoena or other official order from a law enforcement agency to testify as a witness in cases where the employee is not a party or a real party in interest to the proceeding, but is testifying as a result of observations made in the course and scope of City employment may receive regular compensation pursuant to Article 35, Jury and Witness Duty Policy.

3602 Employees who are required to serve as such witness shall receive approval in advance by the Human Resources Director.

#### **ARTICLE 37 – LEAVE OF ABSENCE POLICY**

3701 An employee who is authorized to be absent from work and who is not on an authorized leave with pay shall be on leave without pay.

3702 Any leave of absence, with or without pay, shall not exceed three (3) months except as provided in Article 29, Pregnancy Leave and Article 30, Family and Medical Leave. Should an employee request leave beyond three (3) months, approval will be at the discretion of the City Manager or the Human Resources Director.

3703 Leave of Absence Statement:

- A. An employee who has a compelling need to be absent from work and who is not eligible for leave with pay may request to be placed on leave without pay.
- B. Before requesting leave without pay, an employee must have first exhausted their compensatory time, vacation leave, miscellaneous leave, holiday hours, and sick leave if leave is for illness or injury.

- C. Leave without pay for a period not to exceed one (1) week may be granted by the employee's Department Head.
- D. Leave without pay in excess of one (1) week shall require the approval of the employee's Department Head and the Human Resources Director.
- E. Under special circumstances and with the prior approval of their Department Head and the Human Resources Director, employees may be granted a leave without pay while not first exhausting their vacation accruals.

3704 Leave of Absence Procedure:

- A. It is the responsibility of the employee to submit a written request for a leave of absence within two (2) weeks before such leave would begin stating the reason for the request, the date such leave will begin, and the duration of the leave.
- B. A "Leave of Absence Request" form must also be completed by the employee.
- C. Failure of an employee to apply for leave of absence and complete all necessary forms will be considered to be absent without leave, and all City-paid benefits will be terminated.

3705 Absence Without Leave:

- A. Any unauthorized absence of an employee from duty shall be deemed to be absent without pay and may be cause for disciplinary action.
- B. Failure to report for work or call in for three (3) consecutive workdays shall be considered a voluntary resignation.
- C. Employees may appeal the voluntary resignation under the provisions of Article 50 of this Agreement.

3706 Refusal of Leave of Absence: The Human Resources Director or the City Manager shall refuse a leave of absence request if such a leave is contrary to the good of the City or where there is no probability of the employee's return to work.

3707 Insurance Coverage:

- A. In the event that leave without pay is granted for an employee for reasons of illness or physical incapacity due to illness or injury, the City shall continue to pay the premiums for employee health, dental, vision, life, and disability insurance previously paid for by the City for a period not to exceed three (3) months, except where otherwise provided in this Agreement.
- B. The employee is responsible for paying the costs they had previously authorized towards premiums.
- C. Payment of premiums for coverage beyond three (3) months will be the responsibility of the employee, except where otherwise provided in this Agreement.
- D. In the event that leave without pay is granted to an employee for personal reasons premiums for health, dental, vision, life, and disability insurances will be the responsibility of the employee.

- E. Nothing herein in any way limits the rights of the City to increase, decrease, change or delete any benefit of any group insurance plans it provides to its current employees.
- F. Employees who are on a leave without pay may or may not continue under any new or revised plan subject to the carrier's or provider's approval.
- G. Any failure of the employee to pay their portion of the premiums as prescribed by the MOU shall result in termination of coverage.

3708 Benefits:

- A. Except to the extent provided under Sections 3702 and 3707 above, an employee on leave without pay shall receive no compensation or deferred compensation and shall accumulate no vacation, sick leave or other paid leave.
- B. Any authorized leave of absence without pay for 30 days or more shall require an adjustment in the employee's review date in an amount equivalent to those days in excess of 30 days.
- C. Leave without pay in excess of 30 days will not accrue toward seniority.
- D. Merit, review and anniversary dates will be adjusted accordingly.

3709 Other Deductions:

- A. An employee who is on leave without pay shall be responsible for directly paying any agency or entity for any payroll deductions that they had authorized.
- B. In the event an employee is placed on leave without pay for disciplinary purposes, the City shall continue to pay premiums previously paid by the City.
- C. It will be the responsibility of the employee to provide the City with an advance payment to cover the total cost of all premiums for the benefits the employee wants continued during the absence without pay leave period.

3710 Return from Leave: Employees who take leave shall be entitled, on return from leave, to be restored to the position of employment held by the employee when the leave commenced or be restored to an equivalent position with equivalent employment benefits, pay, and other terms and conditions of employment.

## **ARTICLE 38 – CIVIL DEFENSE LEAVE**

3801 As provided for in Government Code 3100, Civil Defense is a responsibility of all employees of the City.

3802 Upon recommendation of the City Manager and adoption of a Resolution by the City Council, employees whose absence from work arises out of or is due to such civil defense may be authorized by the City Council for a leave with pay during the time of the civil defense as specified in the Resolution adopted by the City Council.

## **ARTICLE 39 – SAFETY SHOES**

3901 Employees who are required to wear safety shoes will receive \$225 toward the purchase and/or replacement of these shoes in the first quarter of each year. Safety shoes (also known as safety boots) are a form of personal protective equipment (PPE) that must be used whenever a workplace hazard assessment determines that hazards that require footwear protection as PPE are present or likely to be present. Safety shoes worn as PPE are required to meet the provisions set forth by California's Occupational Safety and Health Administration (Cal/OSHA) which currently states, and as may be amended, that protective footwear is to meet the American Society for Testing and Materials ("ASTM") standards. ASTM information is typically sewn directly into the safety footwear's interior lining or stamped directly on the inside of the leather tongue of the work boots or shoes. Any employee out on an authorized leave shall receive payment within thirty (30) days of their return to paid duty. New employees who are required to wear safety shoes will receive \$225 toward the purchase of shoes on their first paycheck; for employees hired on or after December 1, they shall not receive an additional \$225 in the first quarter of the following year.

## **ARTICLE 40 – UNIFORMS**

4001 Designated personnel as determined by the Human Resources Director shall be furnished uniforms in accordance with regulations established by the Human Resources Director.

The City shall report (for "classic" members, but not "new" members per Title 2 California Code of regulations section 571(a)(5) as defined by the Public Employees' Pension Reform Act of 2013) to CalPERS the monetary value of uniforms and uniform maintenance for those employees required to wear uniforms. The monetary value by classification is listed in Exhibit A, entitled "UNIFORM ALLOWANCE."

Uniform allowance is defined as compensation paid or the monetary value for the purchase, rental and/or maintenance of required clothing, including clothing made from specially designed protective fabrics, which is a ready substitute for personal attire the employee would otherwise have to acquire and maintain, excluding items that are solely for personal health and safety such as safety shoes.

## **ARTICLE 41 – HEALTH AND CAFETERIA PLAN**

- 4101 A. The City contracts with the California Public Employees Retirement System for participation under the Public Employees Medical and Hospital Care Act, for the purpose of providing medical insurance benefits for employees and qualifying annuitants.
- B. The City's maximum contribution for eligible employees for a Health Benefits Plan shall not exceed \$435 per month.

- C. For TOCEA members employed by the City as a full-time or designated part-time employee and who retire under the City's retirement, the maximum City contribution toward health plan coverage shall be equal to \$435 per month.
- 4102 A. The City shall maintain in accordance with Section 125 of the IRS Code, a Cafeteria Plan, for the purpose of providing employees with access to various health and welfare benefits. Benefits available through the Cafeteria Plan include but are not limited to:
- Group Health Plan Medical Premiums
  - Flexible Spending Account for Dependent Care
  - Flexible Spending Account for Medical Expenses
  - Voluntary Optional Life Insurance Premiums
  - Voluntary Optional Critical Illness and Cancer Insurance Premiums
- B. Effective January 1, 2023, the City's contribution to the Cafeteria Plan per each full-time and designated part-time eligible employee shall be \$980 per month.  
Effective January 1, 2024, the City's contribution to the Cafeteria Plan per each full-time and designated part-time eligible employee shall be \$1,155 per month.  
Effective January 1, 2025, the City's contribution to the Cafeteria Plan per each full-time and designated part-time eligible employee shall be \$1,330 per month.
- C. Effective January 1, 2023, eligible employees (full-time and designated part-time eligible employees hired by the City prior to July 1, 2019) who opt out of/do not fully utilize the City's \$435 per month contribution toward health benefits and/or the City's Cafeteria Plan contribution of \$980 per month will receive cash-back of unused premiums to a maximum of \$700 per month. That is, if the employee's combined utilization of the \$435 Health Benefit Contribution plus the City's Cafeteria Plan contribution of \$980 is less than \$700, then the difference between the employee utilization and the \$700 is eligible for cash-back. If the employee's combined utilization exceeds \$700, then there shall be no cash-back. Employees may only opt out of health benefits and receive cash-back if they provide proof of alternative insurance coverage under a qualified group health plan.
- D. Effective January 1, 2024, eligible employees (full-time and designated part-time eligible employees hired by the City prior to July 1, 2019) who opt out of/do not fully utilize the City's \$435 per month contribution toward health benefits and/or the City's Cafeteria Plan contribution of \$1,155 per month will receive cash-back of unused premiums to a maximum of \$700 per month. That is, if the employee's combined utilization of the \$435 Health Benefit Contribution plus the City's Cafeteria Plan contribution of \$1,155 is less than \$700, then the difference between the employee utilization and



the \$700 is eligible for cash-back. If the employee's combined utilization exceeds \$700, then there shall be no cash-back. Employees may only opt out of health benefits and receive cash-back if they provide proof of alternative insurance coverage under a qualified group health plan.

E. Effective January 1, 2025, eligible employees (full-time and designated part-time eligible employees hired by the City prior to July 1, 2019) who opt out of/do not fully utilize the City's \$435 per month contribution toward health benefits and/or the City's Cafeteria Plan contribution of \$1,330 per month will receive cash-back of unused premiums to a maximum of \$700 per month. That is, if the employee's combined utilization of the \$435 Health Benefit Contribution plus the City's Cafeteria Plan contribution of \$1,330 is less than \$700, then the difference between the employee utilization and the \$700 is eligible for cash-back. If the employee's combined utilization exceeds \$700, then there shall be no cash-back. Employees may only opt out of health benefits and receive cash-back if they provide proof of alternative insurance coverage under a qualified group health plan.

F. All full-time or DPT employees initially hired by the City on or after July 1, 2019, who opt out or do not fully utilize the City's \$435 per month contribution toward health benefits and/or the City's Cafeteria Plan contribution will receive cash-back of unused premiums up to a maximum of \$350 per month. That is, if the employee's combined utilization of the \$435 Health Benefit Contribution plus the City's Cafeteria Plan contribution is less than \$350, then the difference between the employee utilization and the \$350 is eligible for cash-back. If the employee's combined utilization exceeds \$350, then there shall be no cash-back. Employees may only opt out of health benefits and receive cash-back if they provide proof of alternative insurance coverage under a qualified group health plan.

4103 The City will pay 100% of any increased dental insurance premiums for employees and dependents with no opt out or cash-back provisions.

4104 The City will pay 100% of the increased premiums for vision insurance for employees and dependents, life insurance (\$100,000) for employees, and dependent life insurance (\$5,000) for dependents with no opt out or cash-back provisions.

4105 The City will pay 100% of the increased premiums for long-term disability for employees with no opt out or cash-back provisions. The core benefit for Long-Term Disability (LTD) is 66 2/3%.

4106 The City will pay 100% of the increased fees for the monthly administrative fee for an employee to be enrolled in the Section 125 plan.

- 4107 Employees may elect to be covered by additional (optional) life insurance. Employees shall pay the full amount for the increased premium costs for any additional (optional) life insurance they may elect to receive.
- 4108 The City will pay the full costs of the Employee Assistance Program for employees and dependents with no opt out or cash-back provisions.
- 4109 Registered domestic partners and their children are included in the definition of dependents for the purposes of this Section.

#### **ARTICLE 42 – RETIREMENT**

- 4201 The City shall contract with the California Public Employees' Retirement System (PERS) to provide Section 21258.4 for classic members (2% at 55).
- 4202 The City shall contract with PERS to provide a benefit commonly referred to as single highest year for classic members (Section 20042).
- 4203 The City shall contract with PERS to provide the "Fourth Level of 1959 Survivor Benefits".
- 4204 The City shall contract with PERS to provide Section 21024 (Military Service Credit as Public Service) with continuous active military or merchant marine service time prior to employment with the City.
- 4205 The City shall contract with PERS to provide Sections 21551 and 21635 regarding survivor benefits from retirement, even if the spouse remarries.
- 4206 The City shall contract with PERS to provide that sick leave not taken or cashed out will be credited at 100% on retirement when calculating an employee's total years of service credit upon retirement from the City.
- 4207 A. Classic members shall pay a total of 7.0% of the employees' normal contribution to PERS. Classic members are those employees who do not meet the definition of "new member" under the California Public Employees' Pension Reform Act of 2013. All such employee contributions toward employee cost of retirement will be made on a pre-tax basis in accordance with Section 414(h)(2) of the Internal Revenue Code.
- B. The City shall pay the employer cost in accordance with the provisions of the contract between the City and PERS.
- 4208 The California Public Employees' Pension Reform Act of 2013 (PEPRA), as it may from time to time exist, shall in its entirety be given full force and effect. Any provision in this MOU which contradicts any provision of the PEPRA shall be deemed null and void, with the contrary PEPRA provision(s) being given full force and effect. Therefore, no provision of the PEPRA shall be deemed to impair any

provision of this MOU or any MOU, Agreement, Rule or Regulation predating this MOU.

Employees hired on and after January 1, 2013, deemed to be “new members” as defined in Government Code § 7522.04, shall individually pay an initial Member CALPERS contribution rate of 50% of the normal cost rate for the Defined Benefit Plan in which said new member is enrolled, rounded to the nearest quarter of 1%, or the current contribution rate of similarly situated employees, whichever is greater (PEPRA, Government Code section 7522.30).

New members shall be enrolled in the PEPRA provided for retirement formula 2.0% at 62 (Government Code section 7522.20(a)). Final pensionable compensation (as defined for new members in Government Code section 7522.34) shall be determined by reference to the highest average annual pensionable compensation earned during a period of at least 36 consecutive months (Government Code section 7522.32(a)).

4209 RETIREE HEALTH SAVINGS PLAN: TOCEA Retiree Health Savings Plan Contributions

- A. Direct Employer Contribution:
  - a. Mandatory Contribution: An annual \$500 contribution shall be made during the first pay period after July 1 of each year.
- B. The account shall be 100% vested at all times.
- C. Forfeiture Provision: Upon the death of a TOCEA employee without a spouse or eligible dependent, assets shall remain in the Trust to be reallocated among all Plan Participants based upon Participant account balances.
- D. During the life of this agreement, TOCEA may meet and adopt, by a majority vote, different parameters for their RHS plan.

**ARTICLE 43 – COMPUTER LOAN PROGRAM**

4301 The parties agree to remove this subject from the Agreement and place it into the City’s Administrative Policy Manual. See applicable Administrative Policy No. 16.007.

**ARTICLE 44 – DEFERRED COMPENSATION**

4401 The City provides a 401A Deferred Compensation Plan contribution for employees of \$150/month.

**ARTICLE 45 – TUITION REIMBURSEMENT POLICY**

See applicable Administrative Policy No. 16.008.

## **ARTICLE 46 – EXCEPTIONAL SERVICE AWARD**

- 4601 The exceptional service award program for unit employees recognizes exceptional performance within an employee's class.
- 4602 Amount of Award: Exceptional service recognition may be granted as a lump sum payment equivalent to 5% to 10% of the employee's base rate for periods of one (1) through twelve (12) months.
- 4603 City Manager Approval: The City Manager shall determine if an employee is eligible for an award and the amount of the award.
- 4604 Procedures for Awards: A Department Head shall be required to make a convincing showing to the City Manager that exceptional service is being rendered using the following criteria as a general guide.
- 4605 "Exceptional Service" means that the employee, on their own initiative and by their own efforts and abilities, is rendering service above the level of proficiency normally expected in the class, or is producing results consistently superior to that normally expected of employees in the class. Exceptional Service does not include unusual acts or results which are caused by unusual conditions beyond the control of the employee to which he/she demonstrated a normal reaction under the circumstances.
- 4606 Following are some examples of the kinds of performances which might be considered as constituting "exceptional service".
- A. Developing or discovering a concept, technique, practice, or procedure related to the work of the class which improves the quality of the service or results in financial savings. Developments of this character unrelated to the employee's own work should be recognized through other means, such as through a suggestion system.
  - B. Performing the work of their class at a standard consistently above the normally expected, with resulting improvement of service or financial savings.
  - C. Consistently demonstrating ingenuity in the solution of difficult problems, with resulting improvement of service or financial savings.
  - D. Individual acts of heroism beyond the call of duty.
  - E. Activity in community service or professional organizations on the employee's own time which contributes measurably to enhancing the prestige of public service or the effectiveness of City operations.
  - F. Substantially contributing to efficiency and economy.
  - G. Eliminating safety hazards or maintaining safe working practices to a degree so notable that superior safety records are achieved without the sacrifice of quality or quantity production.
  - H. Developing production of services far beyond normal requirements.
  - I. Greatly simplifying work processes.

- J. Working with the public with such marked effectiveness as to produce favorable reactions substantially beyond reasonable expectations or to avoid negative reactions in circumstances where he/she would normally frequently occur.
- K. Actively taking action to meet work requirements with far less than normal supervisory direction.

## **ARTICLE 47 – DPT BENEFITS**

- 4701 DPT Holidays: DPT general employees will receive 2 hours per pay period in holiday hours (maximum 26 pay periods a year) in lieu of holiday pay. Holiday hours shall be used in the calendar year in which they are earned, and shall have no cash value. In the event an employee has not used all of their holiday hours by the end of the calendar year, employees will be able to carry over no more than 30 holiday hours into the following calendar year. Effective July 1, 2017, employees may continue to use any existing time in their miscellaneous leave account, but no additional time will be added to the miscellaneous leave account, other than the annual safety award.
- 4702 DPT Vacations: General DPT employees will receive 2.0 hours per pay period for 26 pay periods per year. The maximum amount of vacation that can be accrued for DPT employees is 376 hours.
- 4703 DPT Sick Leave: General DPT employees will receive 1.846 hours per pay period for 26 pay periods a year. Sick leave shall accrue at the end of the pay period and may first be used in the following pay period.
- 4704 DPT Bereavement Leave:
- A. DPT employees are entitled to three (3) working days of bereavement leave. If bereavement leave falls on a regularly scheduled workday, then employee is eligible to take only those hours they were normally scheduled to work with a maximum of three (3) regularly scheduled days.
  - B. Employees shall be entitled to five (5) working days leave with pay whenever the death of an immediate family member necessitates traveling out-of-state or the country.
  - C. Any use of bereavement leave requires notification of the Department Head. Employees shall be entitled to bereavement leave whenever the death of their immediate family member occurs. Immediate family for purposes of this Article is defined to include the following: employee's parent, sibling, spouse, child, grandparent, or grandchild, or child-in-law; spouse's parent, sibling, child, grandparent, grandchild, or the same relatives of a registered domestic partner; employee, spouse's or registered domestic partner's stepfamily (parent, sibling, child, grandparent, grandchild); former legal guardian or immediate household member.



- D. Bereavement leave shall be completed within three (3) months of the death of the family member. Total paid bereavement leave shall not exceed 60 hours each calendar year.
- 4705 DPT Health and Cafeteria Plan:  
Health and Cafeteria Plan benefits for DPT employees are described in 4101 and 4102.
- A. The City will pay 100% of the increased dental insurance premiums for employees and dependents.
- B. The City will pay 100% of the increased premiums for vision insurance for employees and dependents.
- C. The monthly administrative fee for an employee to be enrolled in the Section 125 plan will be paid for by the City.
- D. Registered domestic partners and their children are included in the definition of dependents for the purposes of this Section.
- 4706 DPT Safety Shoes: DPT employees are eligible for \$225.00 payment every other year towards the purchase of safety shoes.
- 4707 DPT Catastrophic Leave & Military Duty Program: This program applies to DPT employees. Refer to Article 33 and 34.
- 4708 DPT Computer Loan: DPT employees are eligible to participate in the City's computer loan purchase program.
- 4709 Designated Part-Time (DPT) – Compensation: A Designated Part-Time employee shall be paid hourly at the rate appropriate for the classification to which the employee is allocated.
- 4710 DPT – Hours of Work: DPT workweeks will be a minimum of twenty (20) scheduled hours to a maximum of thirty (30) scheduled hours unless approved by City Manager under special circumstances.
- 4711 DPT – Lunch Periods and Rest Breaks:
- A. DPT employees may take a ½ hours lunch break, depending on the schedule that is worked.
- B. Two (2) breaks may be available to be taken, depending on the schedule that is worked.
- C. The workday hours shall not be reduced by the break-time not being taken. Lunch and breaks cannot be accumulated toward time worked.
- D. The rest period and lunch break shall not interfere with the completion of regular or emergency work.
- E. If approved in advance by the Department Head or designee, employees may be allowed or required, on infrequent occasions due to special

circumstances, to work through their lunch break and have their workday hours for that day only adjusted accordingly.

4712 Change of Status Between DPT and Full-time:

- A. Employees who are transferred from permanent full-time to designated part-time or vice-versa, will retain their anniversary date for purposes of vacation and/or service award recognition.
- B. This provision shall have no retroactive application and shall apply to employees who have been transferred in the past or who are transferred after the effective date of this agreement.

4713 DPT – Probationary Period: DPT employees shall be subject to the probationary period provisions of Sections 4902 and 4903 below.

4714 DPT – Retirement: DPT employees shall be enrolled in the City's Hourly/Part-Time Employee Retirement Plan, currently administered by Public Agency Retirement Services (PARS). The plan is a defined benefit plan which provides either a one-time lump sum payment of the accrued benefit, or a monthly lifetime benefit commencing at age 65. If selected, the monthly benefit is calculated by multiplying 2% by the compensation earned each year of employment.

If a full-time employee enrolled in CalPERS subsequently becomes a DPT employee, they shall remain enrolled in CalPERS retirement as set forth in Article 42.

DPT employees shall receive Retirement Health Savings Plan contributions as set forth in Section 4209.

4715 DPT – Deferred Compensation: DPT employees shall receive Deferred Compensation as set forth in Article 44.

**ARTICLE 48 – EMPLOYEE RIDESHARE**

See applicable Administrative Policy No. 16.009.

**ARTICLE 49 – EMPLOYEE STATUS**

4901 Objective of Probationary Period: The probationary period is part of the selection process and shall be utilized for closely observing the employee's job-related performance and conduct to ensure the most effective adjustment of a new employee to a position.

4902 Permanent Appointment Following Probationary Period:

- A. All promotional appointments shall be tentative and subject to a probationary period of six (6) months actual service. All original appointments shall be tentative and subject to a probationary period of twelve (12) months actual service.
- B. If approved by the Human Resources Director, the Department Head may extend such probationary period for unit employees up to a maximum of six (6) additional months.
- C. If the service of the probationary employee has been satisfactory to the Department Head, then the Department Head shall file with the Human Resources Director a statement in writing to such effect and stating that the retention of such employee in the service is desired.
- D. If the services of the probationary employee have not been satisfactory to the Department Head, the Department Head will notify the employee and the Human Resources Director prior to the end of the probationary period that they have not successfully completed the probationary period.
- E. Failure to notify the employee prior to the end of their probationary period that their services are not satisfactory will result in the employee being granted permanent status and will have been deemed to have passed probation.

4903 Release of Probationer: During the probationary period an employee may be released by the Department Head at any time without cause and without the right of appeal. Notification of such release shall be served on the probationer.

4904 Release of Promotional Probationer: Promoted employees who fail their probationary period, except if the cause warrants action to dismiss from the City service, shall return to the position in which they held permanent status, if vacant, or any other vacant position in their former classification within their department unless all positions in that classification are filled.

4905 Upon return to their former position in the same department, employees released from promotional probation shall not serve a new probationary period provided they have completed the probationary period in their former position. In the absence of such vacancy in the department in which they held permanent status, such probationary employees shall have the right to either:

- A. Be placed on a reemployment list;
- B. Accept a voluntary demotion to a lower vacant classification within the same classification series within the department in which they held permanent status, with the right to be restored to their original classification when the first vacancy occurs within their department.

4906 Employees released from promotional probation need not serve a new probationary period if they accept a voluntary demotion to their former position in the same department.

- 4907 When employees released from promotional probation take a demotion to a lower related classification in which a probationary period has not previously been served, such employees shall be required to begin a new probationary period.

## **ARTICLE 50 – DISCIPLINARY ACTIONS**

- 5001 Standards of Conduct and Performance: Grounds for disciplinary action include but are not limited to such conduct or omissions as incompetence, inefficiency, dishonesty, fraud in securing employment, insubordination, failure to fully and satisfactorily perform duties, failure to comply with or abuse of City departmental rules, regulations or directives, or relevant provisions in Agreement, absence or tardiness without authorization, abuse of leave articles, intoxication or use of intoxicants on duty, being under the influence of or use of unlawful drugs or narcotics on duty, conviction of a felony or misdemeanor involving moral turpitude, discourteous treatment of the public or other employees, misuse of City property or facilities, chronic or excessive absenteeism or tardiness, unauthorized use of or falsification of records or documents, and any other failure of good behavior or acts which are incompatible with or inimical to City service.
- 5002 Disciplinary Actions: Disciplinary actions are suspensions without pay, reduction in pay, demotions and dismissals imposed for reasons of punishment. Actions taken due to layoffs are not disciplinary actions, nor are performance evaluations, written reprimands, and the withholding of step increases disciplinary action.
- 5003 PURPOSELY LEFT BLANK.
- 5004 Imposing Disciplinary Actions: Disciplinary actions will be determined by the City Manager, Department Head or designee.
- 5005 Resignation to Avoid Dismissal:
- A. When a Department Head or designee intends to impose a disciplinary dismissal, the employee without coercion may be afforded the option to choose to resign to avoid dismissal.
  - B. The decision to resign in lieu of discharge must be voluntary and the employee is allowed a full day in which to exercise this option.
  - C. The Department Head or designee must inform the employee of the consequences of resignation.
  - D. An employee who resigns loses the right of appeal. Their resignation cannot be withdrawn after acceptance by the Department Head and the employee shall be ineligible for future employment with the City.
  - E. The Personnel Action form separating the employee shall state “resignation in lieu of discharge”.
- 5006 Relief from Duty:
- A. A Department Head may, upon approval from the Human Resources Director, relieve an employee from duty with pay.

- B. Such relief from duty may occur in order to maintain employee morale, safety or security of the workplace during an investigation to determine appropriate action concerning an employee.
- C. If, as the result of an investigation, it is determined that the affected employee was without fault, any reference to the fact that the employee was relieved from duty pursuant to this section shall be deleted from the employee's personnel file.

5007 Disciplinary Procedure:

- A. A permanent employee against whom disciplinary action is instituted by the Department Head or designee shall be given written notice as least five (5) business days prior to the effective date of the action informing the employee of the intended action, the ground or grounds therefore, the employee's acts or omissions that form the basis for the cause(s), informing the employee that any documents or materials giving rise to the action are attached to the written notice, and informing the employee that they may respond to the Department Head orally or in writing prior to the intended effective date of the action.
- B. After the notice and the employee's timely response, if any, the Department Head shall implement, modify or not implement such action as the Department Head deems appropriate, and shall so notify the employee.

5008 Disciplinary Appeals ("Level 1"): Disciplinary actions may be appealed by a permanent employee by filing a written request to the City Manager within five (5) calendar days of the day of the Department Head's final decision, setting forth the basis of such an appeal.

- A. For those permanent employees, including confidential employees who have been reduced in pay, temporarily demoted, or suspended without pay for less than 40 hours ("Level 1 Discipline"), the City Manager or designee shall conduct a hearing, or may appoint an outside hearing officer to conduct such hearing. Prior to setting the date for the hearing, either party may request the matter be subject to mediation pursuant to Section 5010. The date for the hearing shall be scheduled within thirty (30) calendar days of receipt of the employee's request, as provided above, to commence as soon as can be expeditiously arranged. At any step in the discipline appeal process, the affected employee may be represented by an attorney or any other representative of their choosing. The City Manager, designee or hearing officer shall give all appropriate and relevant parties a reasonable opportunity to be heard on relevant issues. The formal rules of evidence utilized in judicial proceedings shall not apply to such hearings. The City Manager or designee shall utilize such rules and procedures that he/she deems appropriate. The right of cross-examination shall be provided to all parties concerned. The City Manager or designee shall not be precluded from making an independent investigation outside the context of the hearing. Any relevant information which is considered in reaching a decision shall be disclosed in the hearing and the parties thereto are given



opportunity to respond. If the hearing is conducted by a designee of the City Manager, written findings and recommendations to the City Manager shall be prepared to affirm, modify or reverse the action with copies to the employee or representative, the Department Head and/or representative.

- B. The decision of the City Manager to affirm, modify or reverse the action shall be expeditiously made and notice shall be served upon the affected employee or representative, the affected Department Head and/or representative. The decision of the City Manager shall be final and conclusive.

5009 Disciplinary Appeals/Mediation/Arbitration ("Level 2"):

- A. Permanent employees who have been given a Notice of Intended Action by the Department Head to be suspended without pay for 40 or more hours, permanently demoted, or terminated ("Level 2 Discipline") may within 10 business days of receipt of the notice, file a written notice of appeal to the City Manager. The City Manager or their designee shall review the employee's response, and make a determination whether to cancel, amend, or sustain the proposed action. If the City Manager decides to amend or sustain the proposed action, the employee will be served with a Final Notice of Disciplinary Action.
- B. If the employee is not satisfied with the City Manager's ruling, per the disciplinary action as stated in Section 5010 A, the matter may be submitted to mediation. This request shall be submitted to the City Manager or designee in writing within five (5) business days of the employee's receipt of the Notice of Final Discipline from the City Manager.
- C. If all parties, or their designated representatives, agree to mediation, a request shall be submitted to the California State Mediation and Conciliation Service (CSMCS) in writing. Absent the ability of CSMCS to serve in a timely manner, the parties shall agree on another mediator. Any costs of the mediator or the mediation process shall be divided equally between the City and TOCEA.
- D. The function of the mediator shall be to attempt to assist the parties to achieve a mutually satisfactory resolution of the dispute. The mediator has no authority to compel resolution of the grievances. Proceedings before the mediator shall be informal.
- E. If a satisfactory resolution of the dispute is achieved by means of this mediation process, the parties shall sign a written statement to that effect and thus waive the right of either party to any further appeal.
- F. If either party does not accept the mediator's opinion, or if the parties do not elect to proceed with mediation, the matter may then proceed to an arbitrator in the manner and form provided in Section 5010. Such arbitration hearings will be held as if mediation had not taken place. Nothing said or done by the parties or the mediator during mediation can be used in any subsequent arbitration, court or government agency proceeding. The mediator may not serve as the arbitrator.

- G. If the employee elects not to be represented by the recognized employee organization, the employee may request an advisory independent hearing subject to review by the City Manager. The City Manager or designee shall conduct a hearing, or may appoint an outside hearing officer to conduct a hearing. The costs of the hearing shall be paid by the City. The employee shall be responsible for the cost of their representation and court reporter(s) if requested.
- H. The date for the hearing shall be scheduled within thirty (30) calendar days of receipt of the employee's request, as provided above, to commence as soon as can be expeditiously arranged. The affected employee may be represented by an attorney or any other representative of their choosing. The City Manager, designee or hearing officer shall give all appropriate and relevant parties a reasonable opportunity to be heard on relevant issues. The formal rules of evidence utilized in judicial proceedings shall not apply to such hearings. The City Manager or designee shall utilize such rules and procedures that he/she deems appropriate. The right of cross-examination shall be provided to all parties concerned. If the hearing is conducted by a designee of the City Manager, written findings and recommendations to the City Manager shall be prepared to affirm, modify or reverse the action with copies to the employee or representative, the Department Head and/or representative.

5010 Request for Arbitration:

- A. When the City Manager's final decision consists of termination from City employment, permanent demotion, or suspension without pay for a period of 40 or more hours ("Level 2 Discipline") and the employee wishes to appeal the disciplinary action, the employee shall ask that the matter be submitted to arbitration by the recognized employee organization.
- B. The employee's representative may submit a written request for arbitration to the City Manager. Said request must be submitted within ten (10) days from the date of the City Manager's final decision.
- C. Upon receipt of the written request for arbitration, the parties shall, within fifteen (15) business days, make an attempt to agree to and select an arbitrator. If the parties are not able to mutually agree on an arbitrator, they will use a strikeout procedure using a list of seven (7) names provided by the California State Mediation and Conciliation Service.
- D. An arbitrator is subject, in each appeal, to the execution in writing of "An Agreement for Arbitration" signed by the employee, the employee's representative, and the City Manager. The Agreement for Arbitration will provide that the arbitration decision will have the effect of a judgment. All arbitration proceedings arising under this Section shall be governed by the provisions of Title 9 of Part 3 of the Code of Civil Procedure of the State of California. However, Code of Civil Procedure Section 1283.05, relating to discovery, shall not be a part of this Agreement. Further, subpoenas duces tecum may be issued by either party's representative as well as by the

arbitrator. All other provisions relating to subpoenas found in Chapter 3 of Title 9 of the Code of Civil Procedure shall apply.

- E. The costs of retaining the arbitrator and the incidental expense of the hearing shall be paid by the loser of the appeal. Costs of the court reporter, if any, shall be paid by the party who requested the presence of the reporter; however, nothing shall preclude the parties from agreeing to share equally in the costs of the reporter. If a cancellation fee is imposed on the parties by the arbitrator, it shall be paid by the party whose actions were responsible for the imposition of said fee.
- F. The arbitrator shall conduct a hearing within thirty (30) days of being selected by both parties unless there is a mutual agreement to extend the time frame. The decision of the arbitrator shall be made in writing within thirty (30) calendar days of the close of the hearing and receipt of briefs, if any, unless there is a mutual agreement to extend the time frame; direct the City Manager in the disposition of the case; and shall be final and binding upon both parties. The arbitrator's authority is limited to the determination as to whether there was just cause for the disciplinary action taken. The arbitrator shall expressly confine himself or herself to the precise issues included in the Agreement to Arbitrate and shall have no authority to increase the discipline imposed by the appointing authority or to take testimony from one party outside the presence of the other. If the discipline consists of termination, the arbitrator may order the reinstatement of the employee with or without back pay. Any award in favor of the employee shall not exceed lost wages and benefits suffered by the employee. The arbitrator shall have no power to alter, amend, add to or subtract from the provisions of this Section or any other terms of the Agreement between the City and TOCEA and shall be bound by applicable federal, state and local laws.
- G. Notwithstanding any provision in this section, any time limit or stage of procedure specified in this Section may be waived upon consent of all parties involved. If an employee or representative fails to comply with the time limits, the appeal shall be considered resolved on the basis of the City's last response and the appeal shall be considered waived and abandoned for all purposes.

#### **ARTICLE 51 – DRIVER'S LICENSE**

5101 For those positions that require a valid California Driver's license, an employee whose driver's license has been revoked, suspended or restricted must inform their first line supervisor before the start of the employee's next work shift.

5102 If an employee whose job description mandates a valid, unrestricted driver's license, has the driver's license and/or other required driving documents restricted, revoked or suspended for medical reasons, they must do the following or be subject to discipline up to and including termination:

- A. Notify the supervisor of the restriction, revocation or suspension of the driver's license and/or medical examiner's certificate before the start of their next work period.
  - B. Provide their supervisor with an original copy (no photocopies) of the DMV report so the supervisor can make a copy for City files. The original will then be returned to the employee.
- 5103 It is the employee's responsibility where a valid driver's license is a job mandate, to renew their driver's license or medical examiner's certificate and appropriate insurance prior to expiration, including taking and passing the required physical examination. In coordination with the employee's supervisor, the City will provide the employee the time necessary during regular working hours, up to a maximum of two (2) hours; in the event additional time is required, the employee will contact their supervisor to determine if additional time will be approved and/or how to proceed.
- 5104 The City will continue to pay for the cost of renewing the employee's commercial driver's license and medical examiner's certificate.
- 5105 It is further the employee's responsibility to keep the required license and medical certificate in their possession when driving a City vehicle.
- 5106 Failure to satisfy these requirements may result in disciplinary action, up to and including termination.
- 5107 The City will review the job requirements and operational needs to determine if the employee can perform the essential functions of their position with the "no driving" limitation and without causing an undue hardship to the department.

## **ARTICLE 52 – GRIEVANCE PROCEDURE**

- 5201 Definition: A grievance shall be defined as an alleged violation of any article of the Agreement between the City and TOCEA, other written personnel rules and regulations pertaining to wages, hours or other terms and conditions of employment, or provisions of any memoranda of understanding in effect at the time of the alleged violation.
- 5202 Exclusions: Grievance shall only include matters defined in Section 5201 and specifically shall not include appeals from any disciplinary action, complaints of discrimination, performance reviews except as provided in Article 15, Section 1523 above or any matter that would require modification of a policy established by the City Council or provided for by law.
- 5203 First Step – Informal Complaint: Within twenty-one (21) business days from the occurrence or from the point the grievant knew or should have known of the matter on which a complaint is based, an employee shall discuss their complaint with their

immediate supervisor. Attempts shall be made to resolve all complaints on an informal basis between the employee and their immediate supervisor.

- 5204 Second Step – Submission of Grievance: If the complaint is not resolved within ten (10) business days after the meeting with the employee's immediate supervisor, the employee may file within five (5) business days a written grievance with the Department Head. A grievance shall not be deemed to be properly filed unless it is signed by the employee and includes all of the following:
- A. A full description of the grievance and how the employee was adversely affected;
  - B. The provisions of the Memoranda of Understanding, or written personnel policies alleged to have been violated;
  - C. The date of the incident grieved; and
  - D. The specific remedy or solution to the grievance sought by the employee.
- 5205 Third Step – Department Head Review: Within ten (10) business days upon receipt of the written grievance, the Department Head shall meet with the employee or designated representative. The Department Head shall deliver an answer to the employee or designated representative within ten (10) business days of the meeting.
- 5206 Fourth and Final Step – City Manager Review: If the grievance is not resolved at the third step, the employee may submit the grievance in writing, to the City Manager, within ten (10) business days after the Department Head's answer is rendered. The City Manager or designee shall deliver an answer to the employee or representative within ten (10) business days of the receipt of the grievance. In the alternative, the City Manager or designee may meet with the employee or representative within ten (10) business days after submission of the grievance. The City Manager or designee shall deliver an answer to the employee or representative within thirty (30) business days after said meeting unless the parties have an agreement to waive such time limit pursuant to Section 5208 A, below.
- 5207 Final Decision – City Manager: The decision at the Fourth Step, i.e., Section 5206 above, shall be final and conclusive.
- 5208 Waiver and Time Limits:
- A. The time limits prescribed in this Article may be extended only upon mutual written agreement of the parties.
  - B. Should the City fail to respond orally or in writing when required within the specific time limits, the grievance shall automatically proceed into the next step of the grievance procedure.
  - C. If an employee fails to initiate or appeal any grievance within the specified time limits, the grievance shall be considered resolved on the basis of the employer's last response and shall be considered waived and abandoned for all purposes.



5209 Reasonable Time Off:

- A. Employees are authorized reasonable time off during regular work hours without loss of pay to resolve a grievance.
- B. Any employee who wishes to leave their workstation or assignment shall receive prior approval of the Department Head or designee.
- C. Time involved in resolving grievances must be reasonable and consistent with operating needs and work schedules of the City.
- D. Nothing provided herein shall limit or restrict the City from scheduling meetings before or after an employee's regular duty or work hours.

**ARTICLE 53 – DISCRIMINATION AND HARASSMENT POLICY**

See applicable Administrative Policy No. 16.028.

**ARTICLE 54 – HEALTH & SAFETY**

5401 Fitness for Duty Examinations: See applicable administrative policy.

5402 Immunizations – Periodic: The City may provide or require periodic immunizations or inoculations as a condition of continued employment.

**ARTICLE 55 – SUBSTANCE ABUSE POLICY**

See applicable Administrative Policy No. 16.010.

**ARTICLE 56 – E-MAIL POLICY**

5601 The parties agree to remove this subject from the Agreement and place it into the City's Administrative Policy Manual. See applicable Administrative Policy No. 14-4.005.

5602 The parties agree further that no changes will be made to content of this Article as set forth in the 2004-05 Agreement without first giving employee representatives the opportunity to negotiate concerning the changes being proposed by the City.

5603 Notwithstanding any provisions of the E-mail Policy to the contrary, Association/Union Officers registered as required in Article 59, Union Rights, shall have the right to use the City e-mail system for union business as provided in Section 5604 below.

5604 Appropriate Union/Association Officers and Officials may use City e-mail to communicate scheduled union meetings; information concerning or the results of union elections; status of negotiations with the City; and coordination of meetings between and among members or with the City, including grievance meetings.

- 5605 Use of City e-mail for incidental personal use, including Union business, should be de minimis and not interfere with the normal performance of an employee's work duties.
- 5606 The parties understand and agree that all aspects of the City's E-mail Policy will apply to any transmission made pursuant to Sections 5603 and 5604.

#### **ARTICLE 57 SAFETY AWARD PROGRAM**

See applicable Administrative Policy No. 16.027. Employees hired July 1, 2023 or later will not be eligible for the safety award.

#### **ARTICLE 58 – MANAGEMENT RIGHTS**

- 5801 The City reserves, retains, and is vested with, solely and exclusively, all rights of management, regardless of the frequency of use, which have not been expressly abridged by specific provisions of the Agreement or by law, to manage the City as such rights existed prior to the execution of this or any predecessor Agreement.
- 5802 Without limiting the generality of the foregoing, the City continues to reserve and retain solely and exclusively all rights of management, including those City rights set forth in the Employer-Employee Relations Resolution, and including but not limited to the right:
- A. To determine the mission of its constituent departments, commissions, and boards and the services to be rendered thereby;
  - B. To set standards of service;
  - C. To determine the procedures and standards of selection for employment, promotion, demotion and layoff;
  - D. To direct its employees;
  - E. To take disciplinary action;
  - F. To relieve its employees from duty because of lack of work or for other legitimate reasons;
  - G. To maintain the efficiency of governmental operations;
  - H. To determine the methods, means and personnel, including contract and/or part-time personnel, by which government operations are to be conducted;
  - I. To determine the content of job classifications;
  - J. To take all necessary actions to carry out its mission in emergencies;
  - K. To exercise complete control and discretion over its organization and the technology of performing its work.
- 5803 The exercise and retention of the City's exclusive rights enumerated above does not preclude employees or their representatives from meeting and conferring regarding the impact of the exercise of management rights on wages, hours, and other terms and conditions of employment.

## **ARTICLE 59 – UNION RIGHTS**

- 5901 Employees who are members of TOCEA on the effective date of this Agreement shall maintain their membership in TOCEA subject to the right to resign from membership in TOCEA during the first twenty (20) calendar days in January of the last year of the Agreement. TOCEA shall be notified of their termination of dues in writing by filling out the TOCEA Membership Declination Form. The TOCEA Membership Declination Form shall be delivered in person to a TOCEA Board member. TOCEA will provide the City's Human Resources with the appropriate documentation to process these dues cancellations within ten (10) business days after the close of the withdrawal resignation period.
- 5902 Any member may exercise their right to resign membership by submitting a written notice to TOCEA and the City during this period.
- 5903 Dues Deduction: The City shall deduct from members of TOCEA and transmit such deductions to current TOCEA representative.
- 5904 Indemnification: TOCEA will indemnify the City for any claims made by employees for deductions made in reliance on information provided by TOCEA.
- 5905 Employee Rights: The City shall not hinder, interfere, intimidate, restrain, discriminate, coerce, or discipline any employee for exercising any rights or benefits provided in this Agreement or law.
- 5906 Association Rights:
- A. TOCEA shall notify the City in writing of the names of its representatives as follows: Consultant, Officers, Bargaining Committee Members, and Departmental Representatives.
  - B. The formally recognized employee organization may select not more than three (3) employee members of such organization to attend scheduled meetings with the City Manager or other management officials on subjects within the scope of representation during regular work hours without loss of compensation.
  - C. Where circumstances warrant, the City Manager may approve the attendance at such meetings of additional employee representatives with or without loss of compensation.
  - D. The employee organization shall, whenever practicable, submit the names of all such employee representatives to the City Manager at least two (2) working days in advance of such meetings. Provided further:
    - a. That no employee representative shall leave his or her duty or workstation or assignment without specific approval of the Department Head or other authorized City management official.
    - b. That any such meeting is subject to scheduling by City management in a manner consistent with operating needs and work schedules.

- E. Nothing provided herein, however, shall limit or restrict City management from scheduling such meetings before or after regular duty or work hours under appropriate circumstances.
- F. A designated TOCEA representative shall be entitled to leave their work during working hours without the loss of pay for reasonable periods of time, with prior approval of their supervisor for purposes of reviewing and processing grievances.
- G. TOCEA staff may have access to TOCEA members provided that supervisors are notified prior to a meeting being scheduled and the meetings held will not interfere with work.
- H. The City agrees to allow TOCEA Board members up to one (1) hour monthly for Association business under the following conditions:
  - a. The employee must receive the approval of his or her Division Head,
  - b. No more than two (2) employees may be away from any one Division at the same time, with Department Head approval,
  - c. That City vehicles are not utilized to attend or conduct Association business.

5907 The parties hereby incorporate by reference the provisions regarding access to work locations, use of City facilities, use of bulletin boards, availability of data and violation of Resolution contained in the Employer-Employee Relations Resolution.

5908 At the orientation of new employees, a City-reviewed TOCEA information packet will be provided to those who would be eligible to join TOCEA. The City's Human Resources Department will continue to provide an opportunity for TOCEA to address new hires during a Department orientation program for new TOCEA employees. The Human Resources Department will notify the TOCEA President via email at least 10 days in advance of a scheduled orientation, or as soon as practicable. The TOCEA representative may meet with the employee at the beginning of the scheduled orientation for an approximate period of twenty (20) minutes. The TOCEA representative may discuss the process and benefits of membership in TOCEA. New employees may elect to decline participation in the orientation meeting with the TOCEA representative.

5909 The City will send via email to the TOCEA President, the employee information it has on file in compliance with AB 119 -- name, job title, department, work location, work, home, and personal cellular telephone numbers, personal email addresses on file with the employer, and home address -- for all new hires in the TOCEA bargaining unit within 30 days of hire, as well as all employees represented by TOCEA at least once per quarter. Employees shall be notified regarding the information to be provided to TOCEA and shall have the option to not provide personal and home contact information.

## **ARTICLE 60 – SIGNATURE PAGE**

City of Thousand Oaks

Thousand Oaks City Employee Association

---

Laura Drottz Kalty                      Date  
Lead Labor Negotiator

---

Laura Holtan                              Date  
Lead Negotiator, CEA

---

Ingrid Hardy                              Date  
Assistant City Manager

---

James Drew Cronin                      Date  
President, TOCEA

---

Jaime Boscarino                          Date  
Finance Director

---

Chris Meske                                Date  
Vice President, TOCEA

---

Carrie Matson                              Date  
Deputy Finance Director

---

Kim Sherman                               Date  
Secretary, TOCEA

---

Sharon Chen                                Date  
Deputy Human Resources Director

---

Angelo Gudino                              Date  
Member-At-Large, TOCEA

---

Klara Bereczki                              Date  
Associate Human Resources Analyst



## EXHIBIT A- UNIFORM ALLOWANCE

TOCEA Uniforms- Amounts reported to CalPERS for Classic employees.  
Please note: These are not direct payments to employees.

Building Maintenance Technician I/II	\$	12.22
Combination Building Inspector I/II	\$	7.74
Construction Inspector I/II	\$	4.30
Custodian	\$	12.22
Environmental Compliance Inspector I/II	\$	11.84
Field Service Representative	\$	5.76
Fleet Tech Crew Leader	\$	17.10
Fleet Technician I/II	\$	22.86
Fleet Technician Welder II	\$	22.86
Heavy Equipment Operator	\$	13.86
Instrumentation & Electrical Technician	\$	19.10
Laboratory Chemist	\$	12.20
Landscape Maintenance Crew Leader	\$	13.26
Landscape Maintenance Worker I/II	\$	13.86
Mail Services Worker	\$	12.22
Plant & Equipment Mechanic	\$	6.40
Printshop Technician	\$	12.22
Purchasing Specialist I/II	\$	10.44
Sr Building Maintenance Technician	\$	12.22
Sr Construction Inspector	\$	4.30
Sr Environmental Compliance Inspector	\$	11.12
Sr Instrumentation & Electrical Technician	\$	19.10
Sr Laboratory Chemist	\$	12.20
Sr Printshop Technician	\$	12.22
Sr Purchasing Specialist	\$	10.44
Sr WWTP Operator	\$	18.30
Street Maintenance Crew Leader	\$	12.06
Street Maintenance Worker I/II	\$	13.86
Street Sweeper Operator	\$	5.76
Utilities Equipment Operator	\$	20.52
Utilities Maintenance Crew Leader	\$	13.26
Utilities Maintenance Worker I/II	\$	20.52
Water Systems Operator	\$	19.92
WWTP Operator I/II	\$	18.30

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THE FOLLOWING 18  
PAGES ARE RELATED TO  
ITEM 8.A.





Madeline Pettit &lt;madeline@tripepismith.com&gt;

## FW: Residency Requirement Under Proposed District Elections Law

4 messages

DistrictElections &lt;DistrictElections@toaks.org&gt;

Thu, May 18, 2023 at 5:11 AM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Wendell Farrell <wendellc.farrell@gmail.com>

**Sent:** Thursday, May 18, 2023 12:10:55 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Residency Requirement Under Proposed District Elections Law

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To Whom This May Concern:

As Thousand Oaks begins to draft its municipal law for district elections, the drafters of the code need to carefully craft residency requirements and ongoing monitoring to account for unusual circumstances.

See the link to a VC Star article below about a problem that has developed in Ojai from a poorly crafted municipal law.

<https://www.vcstar.com/story/news/2023/05/17/grand-jury-alleges-ojai-councilwoman-lives-outside-of-district/70229037007/>

--

Wendell C. Farrell

**Madeline Pettit** <madeline@tripepismith.com>

Thu, May 18, 2023 at 4:18 PM

To: wendellc.farrell@gmail.com

Cc: DistrictElections <districtelections@toaks.org>

Hi Wendell,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](https://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

[Quoted text hidden]

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## FW: District Elections

2 messages

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**DistrictElections** <DistrictElections@toaks.org>

Thu, May 18, 2023 at 7:19 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

---

**From:** Brian Duffy <bduffy12@yahoo.com>

**Sent:** Friday, May 19, 2023 2:19:40 AM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** District Elections

---

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I don't generally write to the to City Hall on issues, and district elections for City Council members doesn't seem to be the worst idea that has been brought up recently. I attended the City Council meeting last week on the topic just to hear the conversation in person. I just grow weary of how the decision making process seems to be happening. I get it that there are Federal Guidelines regarding elections and the State in it's wisdom has written it's own version - but in the rush to not waste money on litigation and be in compliance according to some orchestrated timetable - when do we pause to say - does this make sense for us? Will we be getting the best qualified people in place to help run our City? Before the letter requesting this change arrived - was there a groundswell of angst on the part of the City Council - that they weren't doing all they could to represent the needs of the city? The State requirement seems inequitable - that one person - whether for their own political advancement or not - can make the request for this change - and the rest of the citizens must comply. I understand the school district and the park department have already gone down this path, so maybe it's inevitable that City Council seats follow suit. I just wonder how something that divides the city helps make us a better city. I would love to hear success stories of cities that have obeyed the State's idea - and wished they had done it sooner.

Change for the sake of change isn't necessarily progress. That the lawyers and the mapmakers are excited that every municipal entity in the state will have to comply eventually with this concept - doesn't confer any sense that we're on the right path. As one writer to the local paper who stated she was a member of a protected class, found it offensive that a districting attempt to group protected class people together assumes that protected class individuals all vote the same. I can see her point. Why only one letter making the request - if it's that big of an item within the city?

Treat the people of the City fairly and justly, like you want to be treated yourself - and a lot of this takes care of itself. Where those lines are drawn that will divide our city in this regard only really matter to those with a special interest. I just don't want this initiative to take away from the good work that is being done and to the wonderful city that I call home. Thank you,

Brian Duffy  
1081 Brookview Ave Westlake Village 91361

6/13/23, 9:38 AM

Tripepi Smith & Associates Mail - FW: City Council, CRPD, CVUSD Districts



Madeline Pettit <madeline@tripepismith.com>

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## FW: City Council, CRPD, CVUSD Districts

3 messages

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**DistrictElections** <DistrictElections@toaks.org>

Mon, May 22, 2023 at 8:48 AM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

---

**From:** Jean Kammerer <jeankammerer@gmail.com>

**Sent:** Monday, May 22, 2023 3:47:53 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** City Council, CRPD, CVUSD Districts

---

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RE: District Elections

May 22, 2023

Good Morning,

While I don't agree with the need to divide a city this size into smaller election zones, I understand the motive and support the decision-makers.

However, to have separate voting districts for each of school, park, and citywide elections is unnecessarily complicated and confusing. I urge the City Council and election officials to create one, fair, representative set of four or five neighborhoods for all elections. We need to make it easier for citizens to make good voting decisions, three sets of districts makes it harder. We all have a stake in citywide government, regardless of where we live.

Decisions that affect schools and parks in Sunset Hills and Westlake affect the people in Newbury Park and vice-versa.

Thank you for your consideration.

--

Jean Kammerer

[jeankammerer@gmail.com](mailto:jeankammerer@gmail.com)

805-469-9235

154 La Lomita, Thousand Oaks, CA 91320



Madeline Pettit &lt;madeline@tripepismith.com&gt;

## FW: T.O. District Map Submission - Downtown Core Map

5 messages

**DistrictElections** <DistrictElections@toaks.org>

Mon, Jun 12, 2023 at 12:30 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Shawn Moradian <toba.bid@gmail.com>

**Sent:** Monday, June 12, 2023 7:30:03 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Cc:** City Clerk's Office <cityclerk@toaks.org>; Mark Sellers <msellers@jacksontidus.law>; Doug Menges <doug@manymansions.org>; Dave Gulbranson <davegulbranson@gmail.com>; Steve Kasten <stevekasten@att.net>; Van Ommeren, Ryan <rvommere@callutheran.edu>; Danielle Borja <dborja@conejochamber.org>; Keith Sinclair <sinclair.co@gte.net>; Deborah Kernahan <deborah@deborahkernahan.com>; heatenterprises <heatenterprises@verizon.net>; Andrew Powers <APowers@toaks.org>; Haider Alawami <HAlawami@toaks.org>

**Subject:** T.O. District Map Submission - Downtown Core Map

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Districting Team:

Please be advised that the proposed Orange, Yellow, and Green Maps published today (6/12/23) divide the TO Downtown Business District into separate districts which is problematic. We propose the following map which gives each current councilmember their own district, conforms to the allowable population per district, and keeps the Core Downtown Business District in one central district.

<https://davesredistricting.org/join/714f637d-b978-457e-8641-87c1502083d8>

Kindly confirm receipt?

Respectfully submitted,

### Thousand Oaks Boulevard Association

*"Dedicated to the Beautification and Revitalization of the Boulevard"*

2815 Townsgate Road, Suite 200 - Westlake Village, CA 91361

website: [www.thousandoaksboulevard.com](http://www.thousandoaksboulevard.com)

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**Sydni Overly** <sydni@tripepismith.com>

Mon, Jun 12, 2023 at 2:10 PM

To: DistrictElections &lt;DistrictElections@toaks.org&gt;

Cc: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

Hi Shawn,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections.

All maps compliant with districting criteria will be processed by the demographer and posted to the [Draft Maps Page](#) as part of the draft maps publication presented to the City Council during the next Public Hearing.

Please continue to visit [maptoaks.org](http://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

Thank you,  
Sydni

--  
Sydni Overly  
[sydni@tripepismith.com](mailto:sydni@tripepismith.com)  
(909) 955-3670  
844-TS-COMM-1 x724



[Website](#) | [Facebook](#) | [Twitter](#) | [YouTube](#) | [LinkedIn](#)

[Quoted text hidden]

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**DistrictElections** <[DistrictElections@toaks.org](mailto:DistrictElections@toaks.org)> Mon, Jun 12, 2023 at 2:10 PM  
To: "madeline@tripepismith.com" <[madeline@tripepismith.com](mailto:madeline@tripepismith.com)>, "jennifer@tripepismith.com" <[jennifer@tripepismith.com](mailto:jennifer@tripepismith.com)>, "kparks@ndcresearch.com" <[kparks@ndcresearch.com](mailto:kparks@ndcresearch.com)>, "jlevitt@ndcresearch.com" <[jlevitt@ndcresearch.com](mailto:jlevitt@ndcresearch.com)>, "djohnson@ndcresearch.com" <[djohnson@ndcresearch.com](mailto:djohnson@ndcresearch.com)>

---

**From:** Sydni Overly <[sydni@tripepismith.com](mailto:sydni@tripepismith.com)>  
**Sent:** Monday, June 12, 2023 9:10:01 PM (UTC+00:00) Monrovia, Reykjavik  
**To:** DistrictElections <[DistrictElections@toaks.org](mailto:DistrictElections@toaks.org)>  
**Cc:** [madeline@tripepismith.com](mailto:madeline@tripepismith.com) <[madeline@tripepismith.com](mailto:madeline@tripepismith.com)>; [jennifer@tripepismith.com](mailto:jennifer@tripepismith.com) <[jennifer@tripepismith.com](mailto:jennifer@tripepismith.com)>; [kparks@ndcresearch.com](mailto:kparks@ndcresearch.com) <[kparks@ndcresearch.com](mailto:kparks@ndcresearch.com)>; [jlevitt@ndcresearch.com](mailto:jlevitt@ndcresearch.com) <[jlevitt@ndcresearch.com](mailto:jlevitt@ndcresearch.com)>; [djohnson@ndcresearch.com](mailto:djohnson@ndcresearch.com) <[djohnson@ndcresearch.com](mailto:djohnson@ndcresearch.com)>  
**Subject:** Re: FW: T.O. District Map Submission - Downtown Core Map

[Quoted text hidden]

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**DistrictElections** <[DistrictElections@toaks.org](mailto:DistrictElections@toaks.org)> Mon, Jun 12, 2023 at 5:10 PM  
To: "madeline@tripepismith.com" <[madeline@tripepismith.com](mailto:madeline@tripepismith.com)>, "jennifer@tripepismith.com" <[jennifer@tripepismith.com](mailto:jennifer@tripepismith.com)>, "sydni@tripepismith.com" <[sydni@tripepismith.com](mailto:sydni@tripepismith.com)>, "kparks@ndcresearch.com" <[kparks@ndcresearch.com](mailto:kparks@ndcresearch.com)>, "jlevitt@ndcresearch.com" <[jlevitt@ndcresearch.com](mailto:jlevitt@ndcresearch.com)>, "djohnson@ndcresearch.com" <[djohnson@ndcresearch.com](mailto:djohnson@ndcresearch.com)>

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**From:** Steve Kasten <[stevekasten@att.net](mailto:stevekasten@att.net)>  
**Sent:** Tuesday, June 13, 2023 12:00:29 AM (UTC+00:00) Monrovia, Reykjavik  
**To:** DistrictElections <[DistrictElections@toaks.org](mailto:DistrictElections@toaks.org)>; Shawn Moradian <[toba.bid@gmail.com](mailto:toba.bid@gmail.com)>  
**Cc:** City Clerk's Office <[cityclerk@toaks.org](mailto:cityclerk@toaks.org)>; Mark Sellers <[msellers@jacksontidus.law](mailto:msellers@jacksontidus.law)>; Doug Menges <[doug@manymansions.org](mailto:doug@manymansions.org)>; Dave Gulbranson <[davegulbranson@gmail.com](mailto:davegulbranson@gmail.com)>; Van Ommeren, Ryan <[rvommere@callutheran.edu](mailto:rvommere@callutheran.edu)>; Danielle Borja <[dborja@conejochamber.org](mailto:dborja@conejochamber.org)>; Keith Sinclair <[sinclair.co@gte.net](mailto:sinclair.co@gte.net)>; Deborah Kernahan <[deborah@deborahkernahan.com](mailto:deborah@deborahkernahan.com)>; heatenterprises <[heatenterprises@verizon.net](mailto:heatenterprises@verizon.net)>; Andrew



6/13/23, 9:39 AM

Tripepi Smith & Associates Mail - FW: T.O. District Map Submission - Downtown Core Map

Powers <[APowers@toaks.org](mailto:APowers@toaks.org)>; Haider Alawami <[HALawami@toaks.org](mailto:HALawami@toaks.org)>

**Subject:** Re: T.O. District Map Submission - Downtown Core Map

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I agree with Shawn Moradian. The Downtown Business District should be kept in one Central District.

Steven Kasten  
Property Owner  
and Board Member of Thousand Oaks Boulevard Association,  
TOBA

(818) 419-2624 Cell  
(323) 222-3489 Office  
(323) 222-1038 Fax

The information contained in this email and document (s) attached are for the exclusive use of the addressee and may contain confidential and privileged information. If you have received this email in error immediately reply by e-mail to sender and delete this message and attachments without retaining a copy.

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Madeline Pettit <madeline@tripepismith.com>

## FW: Maps removing Borchard Plot from Newbury

2 messages

DistrictElections <DistrictElections@toaks.org>

Thu, Jun 15, 2023 at 1:29 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Stephanie Steiner <slpytc@live.com>

**Sent:** Thursday, June 15, 2023 8:29:40 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Maps removing Borchard Plot from Newbury

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

I am reaching out to express my disapproval for maps 101, 106, 108, 109, and 111. From my understanding these maps place the Borchard plot (the one being discussed for the general plan) in a different district than my district. I am less than a mile away from the plot, and will be directly affected by the development.

My children go to/ will be going to EARTH'S Elementary and the already busy morning drop off would become even more problematic if there was an influx of more than single family dwellings.

I feel the maps above directly remove my voice from voting for an individual who has my interests regarding this topic. Please consider the voice of those who live directly next to the plot when choosing a map for district elections.

Thank you,  
Stephanie

Madeline Pettit <madeline@tripepismith.com>

Thu, Jun 15, 2023 at 3:37 PM

To: "slpytc@live.com" <slpytc@live.com>

Cc: DistrictElections <districtelections@toaks.org>

Hi Stephanie,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](http://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

[Quoted text hidden]

--

Madeline Pettit



Madeline Pettit <madeline@tripepismith.com>

## FW: Redistricting

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Thu, Jun 15, 2023 at 2:02 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Stephen Freedman <npstevf@gmail.com>

**Sent:** Thursday, June 15, 2023 9:02:39 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Redistricting

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

As a citizen, voter and taxpayer residing of Newbury Park, I have reviewed the maps being submitted/considered for redistricting. I find Maps 101, 106, 108, 109 & 111 as not acceptable as this, once again, marginalizes the residents of Newbury Park who will be most affected by development of the Borchard Parcel.

It seems quite obvious on some of these maps what is being attempted by those who do not reside in Newbury Park. Please stop the games and treat us with fairness and respect and allow our voices to be heard.

--

Stephen Freedman  
npstevf@gmail.com

**Madeline Pettit** <madeline@tripepismith.com>

Thu, Jun 15, 2023 at 3:39 PM

To: npstevf@gmail.com

Cc: DistrictElections <districtelections@toaks.org>

Hi Stephen,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](https://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

[Quoted text hidden]

--

Madeline Pettit



Madeline Pettit &lt;madeline@tripepismith.com&gt;

---

**FW: Re-Districting Maps**

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Thu, Jun 15, 2023 at 2:08 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

---

**From:** Lockett, Kerry <kluckett@amgen.com>**Sent:** Thursday, June 15, 2023 9:08:08 PM (UTC+00:00) Monrovia, Reykjavik**To:** DistrictElections <DistrictElections@toaks.org>**Subject:** Re-Districting Maps

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern,

As a resident of Newbury Park I would like to respond to re-districting maps stating proposed Maps 101, 106, 108, 109 & 111 are not acceptable as this marginalizes the residents of Newbury Park who will be most affected by any development of the borchard parcel.

These proposals seem to specifically alter the natural divide of the 101 freeway to incorporate this parcel into a different district than where Newbury Park residents live thus affecting our ability to provide input to the development of Newbury Park.

Kerry Lockett

610 Nicole Drive

Newbury Park, CA 91320

805 479 7966



Madeline Pettit &lt;madeline@tripepismith.com&gt;

**FW: Redrawing the districts of Thousand Oaks/ Newbury Park**

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Thu, Jun 15, 2023 at 2:31 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** harkie ford <hlucyford3@outlook.com>**Sent:** Thursday, June 15, 2023 9:31:47 PM (UTC+00:00) Monrovia, Reykjavik**To:** DistrictElections <DistrictElections@toaks.org>**Subject:** Redrawing the districts of Thousand Oaks/ Newbury Park

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Maps 101, 106, 108, 109 & 111 are not acceptable as this marginalizes the residents of Newbury Park who will be most affected by development of this parcel.

This is blatant discrimination by the city council. This doesn't seem like something that would happen here, maybe Texas, Florida, Alabama, Mississippi, yes, but not here in Thousand Oaks, California. Newbury Park is a lovely community. I realize you want to sell the parcel of land at Borchard to developers and have them build a 1,000 + apartment complex which would increase the amount of traffic and congestion in the connected neighborhoods. I realize you look at Newbury Park as an unwanted stepchild, but this is home for us and our neighborhoods that you want to congest with thousands of additional automobiles at that intersection. You'll lower our property values, and change what we love about the community we live in. Let's make Newbury Park better not worse. There are other options and open areas in Thousand Oaks, maybe closer to one or more of you that sit on the city council. Put yourself in our shoes, I don't think you would want it to happen in your neighborhood. Knowing we don't want this done, someone has convinced you to redraw our districts and change voting rights. Hopefully, you'll be strong enough to say NO to developers, stop redrawing the district map and changing voting laws to benefit the developers and those that sit on the city council. You were hired to do a job that's best for all the residents of your community not for big corporations. You should be ashamed of yourselves.

Kind Regards,  
HL Ford

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**Madeline Pettit** <madeline@tripepismith.com>

Thu, Jun 15, 2023 at 3:41 PM

To: hlucyford3@outlook.com

Cc: DistrictElections &lt;districtelections@toaks.org&gt;

Hi HL,



Madeline Pettit <madeline@tripepismith.com>

## FW: Redistricting maps

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Thu, Jun 15, 2023 at 3:50 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Brenda BURGAR <burgar@sbcglobal.net>

**Sent:** Thursday, June 15, 2023 10:50:37 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Redistricting maps

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am extremely concerned about the various redistricting map proposals.

Maps #101, #106, # 108, #109, and #111 are not acceptable because they marginalize the very people who are most affected by the development of this parcel. The people affected deserve fairness, something these maps take away.

Mrs. Brenda Bugar  
707 Blue Oak Ave  
Newbury Park, CA 91320

**Madeline Pettit** <madeline@tripepismith.com>

Fri, Jun 16, 2023 at 8:24 AM

To: burgar@sbcglobal.net

Cc: DistrictElections <districtelections@toaks.org>

Hello Brenda,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](http://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

[Quoted text hidden]

--

Madeline Pettit

[madeline@tripepismith.com](mailto:madeline@tripepismith.com)

(714) 702-3742

844-TS-COMM-1 x717





Madeline Pettit <madeline@tripepismith.com>

## FW: New District Maps

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Fri, Jun 16, 2023 at 10:17 AM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Tamara Napier <mtnbykgirl@yahoo.com>

**Sent:** Friday, June 16, 2023 5:17:34 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** New District Maps

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear City Council Members,

Maps 101, 105, 106, 107, 108, 109 & 111 are not acceptable as they marginalize the residents of Newbury Park who will be most affected by the proposed development of the Borchard parcel. The new Newbury Park District should include this property.

Tamara Napier  
805 490-3650  
Newbury Park

Sent from my iPhone

**Madeline Pettit** <madeline@tripepismith.com>

Fri, Jun 16, 2023 at 1:23 PM

To: mtnbykgirl@yahoo.com

Cc: DistrictElections <districtelections@toaks.org>

Hello Tamara,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](http://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

[Quoted text hidden]



Madeline Pettit <madeline@tripepismith.com>

## FW: City Council District Maps

1 message

**DistrictElections** <DistrictElections@toaks.org>

Fri, Jun 16, 2023 at 11:02 AM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** john <cottriel@gmail.com>

**Sent:** Friday, June 16, 2023 6:01:27 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Cc:** J C <cottriel@gmail.com>

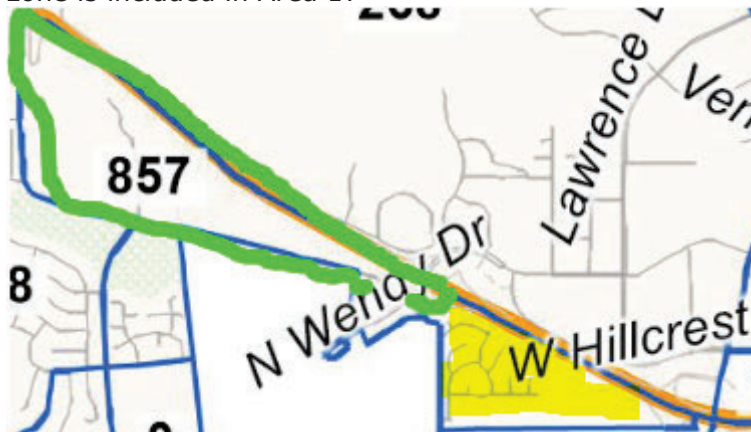
**Subject:** City Council District Maps

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello City Council Folks,

Maps 101, 105, 106, 107, 108, 109 & 111 are not acceptable to me and likely most other residents of Newbury Park.

Why has that little triangle been delineated outside of the rest of Newbury Park on the south side of Hwy 101? What sense does that make, especially in Maps 106 & 111 while the rest of that 857 population zone is included in Area 1?



All the NDC maps included that zone which makes total sense because they simply used the highway as a border.

Maps 102, 103, 104, 110 and all the NDC maps are acceptable to me.

Thanks & Regards,  
John



Madeline Pettit &lt;madeline@tripepismith.com&gt;

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**FW: Re Public Maps**

9 messages

**DistrictElections** <DistrictElections@toaks.org>

Thu, Jun 15, 2023 at 2:30 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

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**From:** Wynter Barker <wynter@stollaw.com>**Sent:** Thursday, June 15, 2023 9:30:44 PM (UTC+00:00) Monrovia, Reykjavik**To:** DistrictElections <DistrictElections@toaks.org>**Subject:** Re Public Maps

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I must say Maps 101, 106, 108, 109, and 111 are unacceptable for redistricting. More specifically, the upcoming elections will have a strong impact on the future revisions to the general plan. Revisions of that general plan will have a massive impact into the vision of Newbury Park, which unfortunately, as the mentioned maps are drawn, will not be a vision that Newbury Park residents will have much input into.

Borchard Park and Rancho Conejo are indeed part of Newbury Park and need to be included in any maps that are drawn. Deer Ridge also considers itself part of Newbury Park. Who the heck drew these very, incredibly slanted bizarre maps? It's actually quite strange that the properties around Newbury Park that even say "Newbury Park" on the map are not included in that district. This needs to be corrected so it is not so blatantly dishonest.

I live off of Los Vientos in Casa Conejo – we are most definitely Newbury Park—our kids went to NPHS and our zip code is 91320 – NP.

Very truly yours,

*Wynter Barker,*

Legal Secretary to Robert J. Stoll, III, Esq.

**PLEASE NOTE: This email address is NOT a service address. Ex Parte notice is NOT ACCEPTED via email.**



Madeline Pettit <madeline@tripepismith.com>

## FW: Maps for districts comment

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Sat, Jun 17, 2023 at 9:13 AM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Kathy Wagner <sillykc@hotmail.com>

**Sent:** Saturday, June 17, 2023 4:13:14 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Maps for districts comment

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning

I am very disappointed in several maps. Maps 102,106,108,109, and 111 carve out the vacant lot off of Borchard and Michael. This area should be included with surrounding areas on the south side of the 101 freeway Anything built at this site will have relation to the surrounding areas on the south side. The freeway cuts this area off from the north side and issues that arise will be associated with the south side.

There are two reasons:

1. Looking to when this area is developed, future relationships will be enhanced with residents and businesses. Please do not separate the future.
2. Today, separating this area from the residents most impacted by this area. When this area is developed it would be best to hear from the ones who have to live with this every day.

Thank you,

Kathy Wagner

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**Madeline Pettit** <madeline@tripepismith.com>

Mon, Jun 19, 2023 at 9:51 AM

To: sillykc@hotmail.com

Cc: DistrictElections <districtelections@toaks.org>

Hi Kathy,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](http://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*



Madeline Pettit <madeline@tripepismith.com>

## FW: Thousand Oaks Redistricting

2 messages

**DistrictElections** <DistrictElections@toaks.org>

Sat, Jun 17, 2023 at 2:17 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** maria <marias\_93065@yahoo.com>

**Sent:** Saturday, June 17, 2023 9:17:19 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Thousand Oaks Redistricting

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To Who It May Concern:

As a concerned citizen of Newbury Park I am submitting this mail to let the city know that Public Maps provided on your website (Maps 101, 106, 108, 109, 111) are unacceptable. These maps marginalize the residents of Newbury Park whom would be the most impacted by the proposed development of the Borchard Parcel.

The proposed district boundaries of these maps clearly show that the Borchard Parcel resides in Newbury Park and should therefore be mapped within the boundaries of Newbury Park district. Once the parcel is reassigned to the Newbury Park district the maps would be acceptable.

Also the proposed Map 108 was submitted by Nat Fara whom I know is the spouse of Shawn Moradian. This seems to be a conflict of interest and understandably be most conducive to her husband's project.

Also Map 106 submitted by Josh Wright seems suspiciously close to the writing of Nat Fara's Map 108 proposal.

That in itself seems a bit illegal regardless even if she has permission....why wouldn't Josh submit his own proposal.

Regards,  
Maria Shaw  
Newbury Park Resident

'you may not change the world for all dogs, but you can change the world for one dog - please adopt and alter your pets'

**Madeline Pettit** <madeline@tripepismith.com>

Mon, Jun 19, 2023 at 9:53 AM

To: marias\_93065@yahoo.com

Cc: DistrictElections <districtelections@toaks.org>





Madeline Pettit <madeline@tripepismith.com>

## FW: Comments on District Maps:

2 messages

DistrictElections <DistrictElections@toaks.org>

Mon, Jun 19, 2023 at 3:36 PM

To: "madeline@tripepismith.com" <madeline@tripepismith.com>, "jennifer@tripepismith.com" <jennifer@tripepismith.com>, "sydni@tripepismith.com" <sydni@tripepismith.com>, "kparks@ndcresearch.com" <kparks@ndcresearch.com>, "jlevitt@ndcresearch.com" <jlevitt@ndcresearch.com>, "djohnson@ndcresearch.com" <djohnson@ndcresearch.com>

**From:** Rodney Love <rodneyleve47@icloud.com>

**Sent:** Monday, June 19, 2023 10:36:19 PM (UTC+00:00) Monrovia, Reykjavik

**To:** DistrictElections <DistrictElections@toaks.org>

**Subject:** Comments on District Maps:

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

-Map 104 seems fairest.  
 -Any map which removes the Borchard Parcel from Newbury Park south of the 101 is unacceptable to me.  
 -The Borchard Parcel & NP south of the 101 are in the same "community of interest" & the voting rights act requires that communities of interest remain together.  
 -Splitting out the Borchard Parcel disenfranchises the residents of NP who will be most affected by development of that property.  
 Thankyou -Rodney Love, Newbury Park resident.

Madeline Pettit <madeline@tripepismith.com>

Mon, Jun 19, 2023 at 4:37 PM

To: rodneyleve47@icloud.com

Cc: DistrictElections <districtelections@toaks.org>

Hi Rodney,

Thank you for contacting us and participating in the City of Thousand Oaks' move to by-district elections. Your comment will be posted to the [Schedule Page](#) as a public comment for the next Public Hearing.

Please continue to visit [maptoaks.org](http://maptoaks.org) for the most up-to-date news and information on the districting process.

*Tripepi Smith is a marketing, technology and public affairs firm based in Orange County, CA. The Tripepi Smith team is working with the City of Thousand Oaks to provide outreach and communications services regarding the districting process.*

[Quoted text hidden]

**From:** Hind Baki <[hind@mitchtsailaw.com](mailto:hind@mitchtsailaw.com)>

**Sent:** Tuesday, June 20, 2023 11:07 AM

**To:** Justine Kendall <[JKendall@toaks.org](mailto:JKendall@toaks.org)>; City Clerk's Office <[cityclerk@toaks.org](mailto:cityclerk@toaks.org)>; Mitchell Tsai <[mitch@mitchtsailaw.com](mailto:mitch@mitchtsailaw.com)>; Stephanie Papayanis <[stephanie@mitchtsailaw.com](mailto:stephanie@mitchtsailaw.com)>; Mitchell M. Tsai Attorney at Law, P.C. <[info@mitchtsailaw.com](mailto:info@mitchtsailaw.com)>

**Subject:** SWMSRCC - City of Thousand Oaks - 2150 W. Hillcrest Drive Mixed Use Project - City Council Meeting - Two Comment Letters

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Justine,

Our Firm would like to submit the attached two Comment Letters for the 2150 W. Hillcrest Drive project (Agenda item 8 B at tonight's City Council meeting). We would appreciate confirmation of receipt of these two letters.

Many thanks,  
--Hind

**Hind Baki**

Paralegal

Mitchell M. Tsai, Attorney At Law

139 South Hudson Avenue, Suite 200

Pasadena, CA 91101

Office: (626) 314-3821

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Email: [hind@mitchtsailaw.com](mailto:hind@mitchtsailaw.com)

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**VIA E-MAIL**

June 20, 2023

Justine Kendall, AICP, Associate Planner  
Community Development Department  
2100 Thousand Oaks Boulevard  
Thousand Oaks, CA 91362  
Em: [jkendall@toaks.org](mailto:jkendall@toaks.org)

Laura Maguire, City Clerk  
City of Thousand Oaks  
2100 Thousand Oaks Boulevard  
Thousand Oaks, CA 91362  
Em: [cityclerk@toaks.org](mailto:cityclerk@toaks.org)

**RE: City of Thousand Oaks' 2150 West Hillcrest Drive Mixed Use Project.**

Dear Justine Kendall,

On behalf of the Southwest Mountain States Regional Council of Carpenters (“**Southwest Mountain States Carpenters**” or “**SWMSRCC**”), my Office is submitting these supplemental comments for the City of Thousand Oaks’ (“**City**”) Draft Environmental Impact Report (“**DEIR**”) for the **June 20, 2023** City Council meeting for the 2150 West Hillcrest Drive Mixed Use Project (“**Project**” or “**Latigo Hillcrest Project**”).

The Southwest Mountain States Carpenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearing and proceeding related to this Project. Gov. Code, § 65009, subd. (b); Pub. Res. Code, § 21177, subd. (a); see *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199-1203; see also *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

The Southwest Mountain States Carpenters 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).

## **I. THE PROJECT WOULD BE APPROVED IN VIOLATION OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT**

### **A. Background Concerning the California Environmental Quality Act**

The California Environmental Quality Act 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>1</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.

### **B. The Project May Have a Significant Effect on Biological Resources**

As discussed in this office’s May 22, 2023 and June 1, 2023 comment letters, the Project may have a significant effect on biological resources for a number of reasons.

#### **1. *Bats, Birds and Wildlife Species.***

The DEIR ultimately concludes that the Project will either have no impact, a less than significant impact, or a less than significant impact after mitigation, despite acknowledging facts showing that the Project may indeed have impacts.<sup>2</sup> Specifically, with regards to the Project’s potential impact on native species, the DEIR notes that the Project Site contains mature trees that could potentially be used by the Cooper’s hawk (*Accipter cooperii*), a species listed on the California Department of Fish and Wildlife (“**CDFW**”) Watchlist, for nesting.<sup>3</sup>

Furthermore, the DEIR notes that “the pallid bat (*Antrozous pallidus*), a CDFW Species of Special Concern, is known to roost in vacant structures and could therefore

<sup>1</sup> The CEQA Guidelines, codified in Title 14 of the California Code of Regulations, section 15000 et seq., are regulatory guidelines promulgated by the state Natural Resources Agency for the implementation of CEQA. Cal. Pub. Res. Code, § 21083. The CEQA Guidelines are given “great weight in interpreting CEQA except when . . . clearly unauthorized or erroneous.” *Center for Biological Diversity v. Dept. of Fish & Wildlife* (2015) 62 Cal.4th 204, 217.

<sup>2</sup> Draft Environmental Impact Report (Apr. 2023), pp. ES-6-7.

<sup>3</sup> *Id.* at p. 4.2-11.

potentially roost in the building on site.<sup>4</sup> Yet, the DEIR merely relies on the Project's compliance with the Migratory Bird Treaty Act ("MBTA") to conclude that this would reduce to a level of less than significant the Project's potential impact to the Cooper's hawk and other birds that have potential to nest at the Project Site.<sup>5</sup> However, mere reliance on a project's regulatory compliance is insufficient to conclude that the Project's potential impacts would be reduced to a level of less than significant. Even further, regarding the Project's potential impact on pallid bats, the DEIR proposes the implementation of mitigation measure BIO-1, which states that

[n]o earlier than **three days prior to ground or vegetation disturbing activities**, and **separately three days prior to demolition if occurring 14 days or more after ground or vegetation disturbing activities**, a City-approved qualified biologist shall inspect the outside and inside of the vacant structure for sign of roosting bats, . . . [and a] report of the bat survey results shall be submitted to the City for review and approval prior to ground and/or vegetation disturbance activities. **If evidence of bat roosting is observed, building demolition shall not be allowed until a qualified biologist can verify that the roost is no longer active.** Separate ground or vegetation disturbing activities may commence **if determined appropriate** by the biologist, with **or** without an avoidance buffer **if** found necessary. **If necessary, bats may be evicted** and building demolished following submittal and approval of a Bat Avoidance Plan by California Department of Fish and Wildlife (CDFW).<sup>6</sup>

However, the proposed mitigation measure is deficient for a number of reasons. First, the mitigation measure relies on potentially the Applicant's own qualified biologist<sup>7</sup> inspecting the Project Site *after* the Project has already been approved. Yet, it is settled that a mitigation measure is inappropriate if all it does is require a report to be prepared and followed, or allow approval by a public agency without setting any standards. *California Clean Energy Committee v. City of Woodland* (2014) 225 Cal.App.4th

<sup>4</sup> *Id.* at pp. 4.2-11-12.

<sup>5</sup> *Id.*

<sup>6</sup> *Id.*

<sup>7</sup> While the mitigation measure indicates that the biologist should be "City-approved" – it does not mean the biologist will be provided by the City itself. In other words, just by requiring City' approval of the biologist, the City is not committing to this mitigation measure itself. Instead, it remains the Applicant's commitment to hire a biologist.

173, 195, citing to *Endangered Habitats League, Inc. v. County of Orange* (2005) 131 Cal.App.4th 777, 794 (court found the mitigation measure inadequate where it did not identify any specific mitigation measures and did not provide any standards for the community development department to adhere to in deciding whether the developer-proposed mitigation is sufficient.)

In the City's May 2023 Final Environmental Impact Report ("**FEIR**"), the City responds to SWMSRCC's May 22, 2023 comment pertaining to the pallid bats, stating in Response 4-9 that

“[t]he EIR considers potential impacts to bird species, including the hawk, to be less than significant with regulatory compliance with the MBTA. However, while pallid bats are not known to be present, the EIR includes a mitigation measure to assure no potential impacts. Mitigation measure BIO-1 specifically requires a ‘a [sic] City-approved qualified biologist’ and also that the biologist report will be reviewed by the City. Thus, the concern about **lack of City involvement is unfounded.**”

FEIR, p. 2.0-6-7. [Emphasis added.]

However, the City's response to SWMSRCC's comment misinterprets in part the issue at hand. As highlighted in SWMSRCC's May 22, 2023 comment letter, the first issue here pertains to the fact that the referenced qualified biologist would conduct an inspection of the Project Site *after the Project has already been approved*. See, SWMSRCC May 22, 2023 Comment Letter p. 11. The City should require that a survey of the Project Site be conducted *prior to* any adoption of the Project's Environmental Impact Report so that it can be determined whether pallid bats do in fact exist at the Project Site.

Furthermore, and as previously discussed in the SWMSRCC's May 22, 2023 comment letter, the mitigation measure is illusory on its face by including numerous “if”s and conditioning on the measure's compliance on the biologist's discretion. Yet, CEQA requires mitigation measures to be **specific and fully enforceable**. In the words of the court in an analogous situation:

In addition, the agency “shall provide that measures to mitigate or avoid significant effects on the environment are fully enforceable through permit conditions, agreements, or other measures” (§ 21081.6, subd. (b))<sup>4</sup> and must adopt a monitoring program to ensure that the mitigation



measures are implemented (§ 21081.6, subd. (a)). *The purpose of these requirements is to ensure that feasible mitigation measures will actually be implemented as a condition of development, and not merely adopted and then neglected or disregarded.* (See § 21002.1, subd. (b).)<sup>5</sup>

. . . . However, the circumstances here do not support a finding that the city has made a binding commitment to implement the mitigation measures or, more appropriately, that they are incorporated into the project or required as a condition of project approval in a manner that will ensure their implementation.

*Federation of Hillside and Canyon Associations v. City of Los Angeles* (2000) 83 Cal.App.4th 1252, 1260–1261.

However, the City fails to address this particular point in its FEIR responses to comments. *See*, FEIR, pp. 2.0-6-7.

Next, and as previously raised by this office, the Draft EIR concludes that the bats may, if necessary, be evicted if a Bat Avoidance Plan has been approved. However, this does not actually mitigate the Project's potential impacts to the bats and relies on some later inspection to be taken after the Project's approval. Although the City addresses the oversight by the City and CDFW in its response to these issues, it fails to address the fact that the use of a qualified biologist to inspect the Project Site *after* the Project's approval or the fact that the bats still may, if necessary, be evicted pursuant to BIO-1, suggest that impacts to the bat species would not actually be mitigated.

Neither does the EIR accurately disclose, or account for, the fact that CDFW and other agencies afford specific protections to bats, in light of their declining numbers. Indeed, California Department of Fish and Wildlife alarms about the devastating decline in bat population and calls for reports of bat colonies to ensure their protection.<sup>8</sup> Bats are considered non-game mammals and are afforded protection by State law from take and/or harassment. Fish & Game Code, § 4150; Cal. Code of Regs, § 251.1. Several bat species are considered SSC and meet the CEQA definition of rare, threatened, or endangered species (CEQA Guidelines, § 15065). Take of SSC could require a mandatory finding of significance by the City (CEQA Guidelines, § 15065). To protect this declining population of bats and mitigate impacts on bats and

<sup>8</sup> See, <https://wildlife.ca.gov/Conservation/Mammals/Bats/Report-Colony>

other species, including both individual and cumulative impacts, CDFW requires specific mitigation measures and accurate disclosures that the EIR must follow here.<sup>9</sup>

Therefore, mitigation measure BIO-1 is insufficient and does not adequately mitigate the Project's potential environmental impact on native species to a level of less than significant. As such, the DEIR should be revised and recirculated to properly address the outstanding concerns with regards to the Project's potential impact on pallid bats.

## 2. *Protected Trees*

As discussed in this office's May 22, 2023 and June 1, 2023 comment letters, the Project calls for the removal of at least seventeen (17) *protected* coast live oak trees and the encroachment into the protected zone of eleven (11) coast live oak trees at the Project Site, which requires a Protected Tree Permit.<sup>10</sup> Thus, such a permit is granted with various conditions, namely the replacement of the removed trees at a ratio set by the Oak Tree Preservation and Protection Guidelines or payment of an in-lieu fee if replacement is not possible.<sup>11</sup>

Although the City's FEIR response to this comment in Response 4-10 addresses a tree replacement ratio and/or payment of an in-lieu fee as permitted by Resolution 2010-014 – Oak Tree Preservation and Protection Ordinance, the Response still fails to address the points made in the SWMSRCC's prior comment letters pertaining to the air quality impacts associated with removing mature trees and replacing them with other trees. SWMSRCC incorporates by reference all comments raised in its prior comment letters on the Project and its EIR.

Therefore, should the tree removal take place, it may very well result in significant air quality impacts and biological resources impacts and the proposed new trees cannot properly mitigate the impact on air quality of removing the existing trees. The EIR

<sup>9</sup> See, **CDFW's March 9, 2021 comment** re impacts and mitigation measures for bats and other wildlife species, at pp. 10-12, available at: [https://files.ceqanet.opr.ca.gov/267688-1/attachment/pupolhNfxVnGXGh\\_y--NmIniSZdkINKbP7Rd3KhogNm5askrIKMWHWq4quU921GmM70w16t744YXzFde0](https://files.ceqanet.opr.ca.gov/267688-1/attachment/pupolhNfxVnGXGh_y--NmIniSZdkINKbP7Rd3KhogNm5askrIKMWHWq4quU921GmM70w16t744YXzFde0;); and **CDFW's April 27, 2021 comment** re impacts and mitigation measures for bats and other species, as well as the cumulative impacts and the need for mitigation measures to be specific and fully responsible, especially at pp. 3-7, available at [https://files.ceqanet.opr.ca.gov/268673-1/attachment/p3UvwNo4JJhyoApargV5SY3MXoanD96K9Zsz50CrCJvM0tHfXcsVbxp6lrs130NgpxKzGB5or5iXpco\\_0](https://files.ceqanet.opr.ca.gov/268673-1/attachment/p3UvwNo4JJhyoApargV5SY3MXoanD96K9Zsz50CrCJvM0tHfXcsVbxp6lrs130NgpxKzGB5or5iXpco_0)

<sup>10</sup> DEIR, *supra*, at p. 4.2-3, 4.2-14

<sup>11</sup> *Id.*

should adequately disclose, and account for, the Project's biological and air quality impacts associated, *inter alia*, with the removal or adverse impact to the trees on site.

## **II. CONCLUSION**

For the reasons set forth above, SWMSRCC respectfully requests that the City require the revision and recirculation of the Draft Environmental Impact Report pursuant to CEQA, consistent with the concerns and authority mentioned in this letter.

Sincerely,



Stephanie Papayanis

Attorneys for Southwest Mountain  
States Regional Council of Carpenters

**VIA E-MAIL**

June 20, 2023

Justine Kendall, AICP, Associate Planner  
Community Development Department  
2100 Thousand Oaks Boulevard  
Thousand Oaks, CA 91362  
Em: [jkendall@toaks.org](mailto:jkendall@toaks.org)

Laura Maguire, City Clerk  
City of Thousand Oaks  
2100 Thousand Oaks Boulevard  
Thousand Oaks, CA 91362  
Em: [cityclerk@toaks.org](mailto:cityclerk@toaks.org)

**RE: City of Thousand Oaks' 2150 West Hillcrest Drive Mixed Use Project.**

Dear Justine Kendall,

On behalf of the Southwest Mountain States Regional Council of Carpenters (“**Southwest Mountain States Carpenters**” or “**SWMSRCC**”), my Office is submitting these comments for the City of Thousand Oaks’ (“**City**”) Draft Environmental Impact Report (“**DEIR**”) for the **June 20, 2023** City Council meeting for the 2150 West Hillcrest Drive Mixed Use Project (“**Project**” or “**Latigo Hillcrest Project**”).

The Project proposes to construct two (2) new podium buildings that include a four-story (4) mixed-use building that contains 333 multi-family residential units, common areas, and amenities, as well as about 5,300 square feet of commercial space with alcohol consumption use above semi-subterranean parking structures, along with the removal of seventeen (17) coast live oak trees and encroachment into eleven (11) coast live oak trees in the protected zone.<sup>1</sup> The Project is proposed at the site of a “long-vacant welcome center property” used as the headquarters for the Amgen

<sup>1</sup> Draft Environmental Impact Report Notice of Availability (Apr. 7, 2023), at p. 1.

biotech company campus and was previously entitled by the City for a 333-unit housing development with 20% of units (i.e., 67 units) set aside as affordable.<sup>2, 3</sup>

The Applicant Latigo has just completed another 142-unit luxury mixed-use Santal project at 299 E. Thousand Oaks Blvd, across the street from Tarantula Hill Brewery near Moorpark Road.<sup>4</sup>

The Southwest Mountain States Carpenters is a labor union representing 63,000 union carpenters in 10 states, including California, and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects.

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

The Southwest Mountain States Carpenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearing and proceeding related to this Project. Gov. Code, § 65009, subd. (b); Pub. Res. Code, § 21177, subd. (a); see *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199-1203; see also *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

The Southwest Mountain States Carpenters incorporates by reference all comments raising issues regarding the Environmental Impact Report (EIR) submitted prior to certification of the EIR for the Project. 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, the Southwest Mountain States Carpenters requests that the City provide notice for any and all notices referring or related to the Project issued under the

<sup>2</sup> See, **Exhibit D**, also available at: <https://www.toacorn.com/articles/developer-buys-amgen-property-for-25m/>, accessed 5/26/2023

<sup>3</sup> Per the EIR, the Project is only proposing 30 affordable units for very low income families. DEIR, 1.0-1.

<sup>4</sup> *Id.*, see also **Exhibit E**, also available at: <https://www.toacorn.com/articles/a-7000-apartment-boulevard-builder-may-break-record-books/>, accessed 5/26/2023; and **Exhibit F** (Latigo's projects, including in Thousand Oaks), available at <https://www.latigo-group.com/current-developments>, accessed 5/26/2023.

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

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

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

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

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

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

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



[L]abor should be considered an investment rather than a cost—and investments in growing, diversifying, and upskilling California’s workforce can positively affect returns on climate mitigation efforts. In other words, well-trained workers are key to delivering emissions reductions and moving California closer to its climate targets.<sup>5</sup>

Furthermore, workforce policies have significant environmental benefits given that they improve an area’s jobs-housing balance, decreasing the amount and length of job commutes and the associated greenhouse gas (GHG) emissions. In fact, on May 7, 2021, the South Coast Air Quality Management District found that the “[u]se of a local state-certified apprenticeship program” can result in air pollutant reductions.<sup>6</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>7</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>8</sup> Some municipalities have even tied local hire and

<sup>5</sup> California Workforce Development Board (2020) Putting California on the High Road: A Jobs and Climate Action Plan for 2030 at p. ii, *available at* <https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf>.

<sup>6</sup> South Coast Air Quality Management District (May 7, 2021) Certify Final Environmental Assessment and Adopt Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions Program, and Proposed Rule 316 – Fees for Rule 2305, Submit Rule 2305 for Inclusion Into the SIP, and Approve Supporting Budget Actions, *available at* <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10>.

<sup>7</sup> California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, *available at* <https://cprroundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf>

<sup>8</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*

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

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

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

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

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

Construction work has been defined as a Lower to High-risk activity for COVID-19 spread by the Occupational Safety and Health Administration. Recently, several construction sites have been identified as sources of community spread of COVID-19.<sup>9</sup>

72 (4), 475-490, 482, *available at* <http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf>.

<sup>9</sup> Santa Clara County Public Health (June 12, 2020) COVID-19 CASES AT CONSTRUCTION SITES HIGHLIGHT NEED FOR CONTINUED VIGILANCE IN SECTORS THAT HAVE REOPENED, *available at* <https://www.sccgov.org/sites/covid19/Pages/press-release-06-12-2020-cases-at-construction-sites.aspx>.

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

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

**Construction Site Design:**

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

**Testing Procedures:**

- The temperature screening being used are non-contact devices.
- Temperature readings will not be recorded.

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

### **Planning**

- Require the development of an Infectious Disease Preparedness and Response Plan that will include basic infection prevention measures (requiring the use of personal protection equipment), policies and procedures for prompt identification and isolation of sick individuals, social distancing (prohibiting gatherings of no more than 10 people including all-hands meetings and all-hands lunches)

communication and training and workplace controls that meet standards that may be promulgated by the Center for Disease Control, Occupational Safety and Health Administration, Cal/OSHA, California Department of Public Health or applicable local public health agencies.<sup>10</sup>

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

Southwest Mountain States Carpenters has also developed a rigorous Infection Control Risk Assessment (“**ICRA**”) training program to ensure it delivers a workforce that understands how to identify and control infection risks by implementing protocols to protect themselves and all others during renovation and construction projects in healthcare environments.<sup>11</sup>

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

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

### **III. THE PROJECT WOULD BE APPROVED IN VIOLATION OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT**

#### **A. Background Concerning the California Environmental Quality Act**

The California Environmental Quality Act is a California statute designed to inform decision-makers and the public about the potential significant environmental effects of

<sup>10</sup> See also The Center for Construction Research and Training, North America’s Building Trades Unions (April 27 2020) NABTU and CPWR COVID-19 Standards for U.S. Construction Sites, *available at* [https://www.cpwr.com/sites/default/files/NABTU\\_CPWR\\_Standards\\_COVID-19.pdf](https://www.cpwr.com/sites/default/files/NABTU_CPWR_Standards_COVID-19.pdf); Los Angeles County Department of Public Works (2020) Guidelines for Construction Sites During COVID-19 Pandemic, *available at* [https://dpw.lacounty.gov/building-and-safety/docs/pw\\_guidelines-construction-sites.pdf](https://dpw.lacounty.gov/building-and-safety/docs/pw_guidelines-construction-sites.pdf).

<sup>11</sup> For details concerning Southwest Carpenters’ ICRA training program, *see* <https://icrahealthcare.com/>.

a project. 14 California Code of Regulations (“**CEQA Guidelines**”), § 15002, subd. (a)(1).<sup>12</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.

### 1. *Background Concerning Environmental Impact Reports*

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 Comes* (2001) 91 Cal.App.4th 1344, 1354; *Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553; *Laurel Heights Improvement Assn.*, 47 Cal.3d at p. 400. The 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). 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).

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 Jets*, 91 Cal.App.4th at p. 1355 (quoting *Laurel Heights Improvement Assn.*, 47 Cal.3d at pp. 391, 409 fn. 12) (internal quotations omitted). A clearly inadequate or unsupported study is entitled to no judicial deference. *Id.* 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 court stated in *Berkeley Jets*, prejudicial abuse of discretion occurs if the

<sup>12</sup> The CEQA Guidelines, codified in Title 14 of the California Code of Regulations, section 15000 et seq., are regulatory guidelines promulgated by the state Natural Resources Agency for the implementation of CEQA. Cal. Pub. Res. Code, § 21083. The CEQA Guidelines are given “great weight in interpreting CEQA except when . . . clearly unauthorized or erroneous.” *Center for Biological Diversity v. Dept. of Fish & Wildlife* (2015) 62 Cal.4th 204, 217.



failure to include relevant information precludes informed decision-making and informed public participation, thereby thwarting the statutory goals of the EIR process. 91 Cal.App.4th at p. 1355 (internal quotations omitted).

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.” PRC, § 21151; see *No Oil, Inc. v. City of Los Angeles* (1974) 13 Cal.App.3d 68, 75; accord *Jensen v. City of Santa Rosa* (2018) 23 Cal.App.5th 877, 884. 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. PRC, §§ 21100 (a), 21151; CEQA Guidelines, § 15064 (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 agency must adopt a negative declaration. PRC, § 21080, subd. (c)(1); CEQA Guidelines, §§ 15063 (b)(2), 15064(f)(3).

“Significant effect upon the environment” is defined as “a substantial or potentially substantial adverse change in the environment.” PRC, § 21068; CEQA 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, Inc.*, 13 Cal.3d at p. 83 fn. 16; see *Sundstrom v. County of Mendocino* (1988) 202 Cal.App.3d 296, 309. 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(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*, 202 Cal.App.3d at p. 310. 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*, 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(f)(1).

For the reasons set forth below, the Project may have a significant effect on the environment. As such, the DEIR must be revised and recirculated to adequately account for the Project’s potential environmental effects.

#### B. The Project May Have a Significant Effect on Biological Resources

The Project may have a significant effect on biological resources for a number of reasons.

##### 1. *Bats, Birds and Wildlife Species.*

The DEIR ultimately concludes that the Project will either have no impact, a less than significant impact, or a less than significant impact after mitigation, despite acknowledging facts showing that the Project may indeed have impacts.<sup>13</sup> Specifically, with regards to the Project’s potential impact on native species, the DEIR notes that

<sup>13</sup> Draft Environmental Impact Report (Apr. 2023), pp. ES-6-7.

the Project Site contains mature trees that could potentially be used by the Cooper's hawk (*Accipiter cooperii*), a species listed on the California Department of Fish and Wildlife ("CDFW") Watchlist, for nesting.<sup>14</sup>

Furthermore, the DEIR notes that "the pallid bat (*Antrozous pallidus*), a CDFW Species of Special Concern, is known to roost in vacant structures and could therefore potentially roost in the building on site.<sup>15</sup> Yet, the DEIR merely relies on the Project's compliance with the Migratory Bird Treaty Act ("MBTA") to conclude that this would reduce to a level of less than significant the Project's potential impact to the Cooper's hawk and other birds that have potential to nest at the Project Site.<sup>16</sup> However, mere reliance on a project's regulatory compliance is insufficient to conclude that the Project's potential impacts would be reduced to a level of less than significant. Even further, regarding the Project's potential impact on pallid bats, the DEIR proposes the implementation of mitigation measure BIO-1, which states that

[n]o earlier than **three days prior to ground or vegetation disturbing activities**, and **separately three days prior to demolition if occurring 14 days or more after ground or vegetation disturbing activities**, a City-approved qualified biologist shall inspect the outside and inside of the vacant structure for sign of roosting bats, . . . [and a] report of the bat survey results shall be submitted to the City for review and approval prior to ground and/or vegetation disturbance activities. **If evidence of bat roosting is observed, building demolition shall not be allowed until a qualified biologist can verify that the roost is no longer active.** Separate ground or vegetation disturbing activities may commence **if determined appropriate** by the biologist, with **or** without an avoidance buffer **if** found necessary. **If necessary, bats may be evicted** and building demolished following submittal and approval of a Bat Avoidance Plan by California Department of Fish and Wildlife (CDFW).<sup>17</sup>

However, the proposed mitigation measure is deficient for a number of reasons. First, the mitigation measure relies on potentially the Applicant's own qualified biologist<sup>18</sup>

<sup>14</sup> *Id.* at p. 4.2-11.

<sup>15</sup> *Id.* at pp. 4.2-11-12.

<sup>16</sup> *Id.*

<sup>17</sup> *Id.*

<sup>18</sup> While the mitigation measure indicates that the biologist should be "City-approved" – it does not mean the biologist will be provided by the City itself. In other words, just by

inspecting the Project Site *after* the Project has already been approved. Yet, it is settled that a mitigation measure is inappropriate if all it does is require a report to be prepared and followed, or allow approval by a public agency without setting any standards. *California Clean Energy Committee v. City of Woodland* (2014) 225 Cal.App.4th 173, 195, citing to *Endangered Habitats League, Inc. v. County of Orange* (2005) 131 Cal.App.4th 777, 794 (court found the mitigation measure inadequate where it did not identify any specific mitigation measures and did not provide any standards for the community development department to adhere to in deciding whether the developer-proposed mitigation is sufficient.)

Second, the mitigation measure is illusory on its face by including numerous “if”s and conditioning on the measure’s compliance on the biologist’s discretion. Yet, CEQA requires mitigation measures to be specific and fully enforceable. In the words of the court in an analogous situation:

In addition, the agency “shall provide that measures to mitigate or avoid significant effects on the environment are fully enforceable through permit conditions, agreements, or other measures” (§ 21081.6, subd. (b))<sup>4</sup> and must adopt a monitoring program to ensure that the mitigation measures are implemented (§ 21081.6, subd. (a)). *The purpose of these requirements is to ensure that feasible mitigation measures will actually be implemented as a condition of development, and not merely adopted and then neglected or disregarded.* (See § 21002.1, subd. (b).)<sup>5</sup>

. . . . However, the circumstances here do not support a finding that the city has made a binding commitment to implement the mitigation measures or, more appropriately, that they are incorporated into the project or required as a condition of project approval in a manner that will ensure their implementation.

*Federation of Hillside and Canyon Associations v. City of Los Angeles* (2000) 83 Cal.App.4th 1252, 1260–1261.

Third, the Draft EIR concludes that the bats may, if necessary, be evicted if a Bat Avoidance Plan has been approved. However, this does not actually mitigate the

requiring City’ approval of the biologist, the City is not committing to this mitigation measure itself. Instead, it remains the Applicant’s commitment to hire a biologist.

Project's potential impacts to the bats and relies on some later inspection to be taken after the Project's approval.

Neither does the EIR accurately disclose, or account for, the fact that CDFW and other agencies afford specific protections to bats, in light of their declining numbers. Indeed, California Department of Fish and Wildlife alarms about the devastating decline in bat population and calls for reports of bat colonies to ensure their protection.<sup>19</sup> Bats are considered non-game mammals and are afforded protection by State law from take and/or harassment. Fish & Game Code, § 4150; Cal. Code of Regs, § 251.1. Several bat species are considered SSC and meet the CEQA definition of rare, threatened, or endangered species (CEQA Guidelines, § 15065). Take of SSC could require a mandatory finding of significance by the City (CEQA Guidelines, § 15065). To protect this declining population of bats and mitigate impacts on bats and other species, including both individual and cumulative impacts, CDFW requires specific mitigation measures and accurate disclosures that the EIR must follow here.<sup>20</sup>

Therefore, mitigation measure BIO-1 is insufficient and does not adequately mitigate the Project's potential environmental impact on native species to a level of less than significant. As such, the DEIR should be revised and recirculated to properly address the outstanding concerns with regards to the Project's potential impact on pallid bats.

## 2. *Protected Trees*

The Project calls for the removal of at least seventeen (17) *protected* coast live oak trees and the encroachment into the protected zone of eleven (11) coast live oak trees at the Project Site, which requires a Protected Tree Permit.<sup>21</sup> Thus, such a permit is granted with various conditions, namely the replacement of the removed trees at a ratio set by the Oak Tree Preservation and Protection Guidelines or payment of an in-

<sup>19</sup> See, <https://wildlife.ca.gov/Conservation/Mammals/Bats/Report-Colony>

<sup>20</sup> See, **CDFW's March 9, 2021 comment** re impacts and mitigation measures for bats and other wildlife species, at pp. 10-12, available at: [https://files.ceqanet.opr.ca.gov/267688-1/attachment/pupolhNfxVnGXGh\\_y--NmIniSZdkINKbP7Rd3KhoqNm5askrIKMWHWq4quU921GmM70w16t744YXzFde0;](https://files.ceqanet.opr.ca.gov/267688-1/attachment/pupolhNfxVnGXGh_y--NmIniSZdkINKbP7Rd3KhoqNm5askrIKMWHWq4quU921GmM70w16t744YXzFde0;) and **CDFW's April 27, 2021 comment** re impacts and mitigation measures for bats and other species, as well as the cumulative impacts and the need for mitigation measures to be specific and fully responsible, especially at pp. 3-7, available at [https://files.ceqanet.opr.ca.gov/268673-1/attachment/p3UvwNo4JJhyoApargV5SY3MXoanD96K9Z.sz50CrCJvM0tHfXcsVbxp6lrs130NgpxKzGB5or5iXpco\\_0](https://files.ceqanet.opr.ca.gov/268673-1/attachment/p3UvwNo4JJhyoApargV5SY3MXoanD96K9Z.sz50CrCJvM0tHfXcsVbxp6lrs130NgpxKzGB5or5iXpco_0)

<sup>21</sup> *Id.* at 4.2-3, 4.2-14



lieu fee if replacement is not possible.<sup>22</sup> However, merely replacing the removed trees is an insufficient solution for various reasons.

First, there are a multitude of issues associated with planting new trees. For instance, there is the strong possibility that many of the trees will not survive. As noted by Lara Roman, a U.S. Forest Service researcher who studies tree mortality, “planting a massive number of trees is not necessarily a positive investment if not enough of them survive to become mature plants.”<sup>23</sup>

Second, the Project may affect, albeit not replace, other protected trees. It is also possible that the replanted trees may not have the proper position to survive. The EIR’s mitigation measure of tree-replacement does not account for such details; yet it should, as detailed in the CDFW’s comments, including on projects’ impacts on protected coast live oaks, as here.<sup>24</sup>

Third, “there’s also a carbon cost to tree-planting, meaning that trees have to survive years before they offset that cost. The largest environmental gain comes when trees mature, sometimes decades after they’re planted.”<sup>25</sup> Thus, the new trees will not immediately, or maybe even ever, mitigate the impacts associated with removing the already mature trees.

Therefore, should the tree removal take place, it may very well result in significant air quality impacts and biological resources impacts and the proposed new trees cannot properly mitigate the impact on air quality of removing the existing trees. The EIR should adequately disclose, and account for, the Project’s biological and air quality impacts associated, *inter alia*, with the removal or adverse impact to the trees on site.

<sup>22</sup> *Id.*

<sup>23</sup> Bloomberg, The Darker Side of Tree-Planting Pledges (June 30 2021), available at <https://www.bloomberg.com/news/features/2021-07-30/what-happens-after-pledges-to-plant-millions-of-trees?srnd=citylab>.

<sup>24</sup> See, **CDFW’s 2022 Comment Letter** re Tree-Replacement Ratios depending on size of the saplings, esp. pp. 5-7: <https://files.ceqanet.opr.ca.gov/275332-1/attachment/0U15QNr0t77eLulU5EZIxSvZxKY3isuAAdh9kOduSlaABCmDmtJcYbItff0h85Y4kIcj4GgTZUeB-D8C0>; see, **CDFW’s 2021 Comment Letter** re Tree-Replacement Ratios, including for coast live oaks, as well as various mitigation measures, at pp. 7-9 [https://files.ceqanet.opr.ca.gov/267688-1/attachment/pupolhNfxVnGXGh\\_y--NmIniSZdkINKbP7Rd3KhoqNm5askrIKMWHWq4quU921GmM70w16t744YXzFde0](https://files.ceqanet.opr.ca.gov/267688-1/attachment/pupolhNfxVnGXGh_y--NmIniSZdkINKbP7Rd3KhoqNm5askrIKMWHWq4quU921GmM70w16t744YXzFde0)

<sup>25</sup> *Id.*



### C. The Project May Have a Significant Impact on Noise

The Project proposes to construct a four-story (4) mixed-use development that encompasses 629,937 gross square feet of building area.<sup>26</sup> Thus, the very nature of the Project suggests that the Project could result in a significant noise impact, including both operational and construction noise. As also indicated in the cited and hyperlinked CDFW comments, *supra*, such noise may also affect the wildlife currently present at the Project site and cause biological impacts.

Furthermore, in the DEIR's noise analysis for construction noise, the DEIR finds that because the temporary noise level increases from construction activities would be more than 10 dB, there would be a significant noise impact and that a reduction measure would be necessary.<sup>27</sup> The EIR therefore asserts that mitigation measure NOI-1 would be implemented, which would implement a twelve-foot-high (12) barrier at the eastern side of the Project site during the construction phase in order to reduce construction noise levels by the residential uses by 14 dBA to 62 dBA.<sup>28</sup> However, this mitigation measure is deficient for several reasons.

First, the assumed elevation (at ground level) of the noise source is not defined.<sup>29</sup> This information is crucial because it is key to the performance of the barrier, for example, assuming the barrier sits on the ground at the perimeter of the job site, as the DEIR seems to indicate, it would not adequately mitigate noise sources elevated above the ground level as construction of the building progresses. The mitigation measure must be revised to fully explain how noise barriers would be used to mitigate noise impacts at a minimum of 15 dBA for elevated sources during construction of the two (2) Project structures, with the tallest one being up to four (4) stories tall.<sup>30</sup>

Likewise, NOI-1 addresses only receivers at ground level but does not address elevated receivers such as the second floor of the neighboring Linden Apartments on Hillcrest Drive, identified by the DEIR as a residential sensitive receptor (R2).

Therefore, the mitigation measure must also be revised to provide protections for receivers elevated above ground level. Accordingly, the Project's DEIR should be

<sup>26</sup> DEIR, *supra*, at p. 2.0-1.

<sup>27</sup> *Id.* at p. 4.8-7.

<sup>28</sup> *Id.*

<sup>29</sup> *Id.* at p. 4.8-7, 4.8-9.

<sup>30</sup> *Id.* at p. 4.4-1.

revised and recirculatd to account for the foregoing issues.

D. The Project May Have a Significant Traffic Impact

The very nature of the four-story (4) mixed-use building that will include 333 multi-family residential dwelling units and commercial retail and restaurant space<sup>31</sup> and the fact that it is proposed on a long-vacant office site, indicates that the Project may have a significant traffic impact. In fact, according to the DEIR's Transportation analysis and Traffic, Circulation and Vehicle Miles Traveled ("VMT") Study, the Project is anticipated to generate 1,788 average daily trips,<sup>32</sup> which further indicates that the Project may have a significant traffic impact.

That the Project may have significant traffic impacts is also suggested by the Applicant's own statements that its commercial component, including the restaurant/bar is anticipated to be very busy: "restaurant/bar where people working at Amgen headquarters and other nearby companies (Skyworks is just down the street) can get together at lunch and after work."<sup>33</sup>

In addition, the Project may have a significant cumulative traffic impact along with other related projects, including but not limited to the ones proposed or built by the same Applicant, such as the Santal development in Thousand Oaks, as mentioned *supra*. Yet, there is no evidence the DEIR considered a full list of related projects or the Santal project, in its cumulative related projects' list. DEIR, at 3.0-3—3.0-6 & Figure 3-1.

Even further, the DEIR's Transportation analysis is deficient as it fails to include any analysis on the Project's potential impacts during the *construction* or *operation* phases of the Project. The DEIR confusingly mentions the level of service ("LOS") standard to argue no significant impacts would result, albeit it acknowledges that the LOS is not the applicable standard any more. DEIR, at 4.11-6—7. Then again confusingly and misleadingly, the DEIR argues the Project will have less than significant impacts under the VMT and, doing so, it (1) fails to present what the known VMT thresholds of significance are, per the OPR Guidance; and (2) relies on some administrative policies

<sup>31</sup> *Id.* at p. ES-1.

<sup>32</sup> *Id.* at p 4.1-13; Appendix H, 2150 Hillcrest Drive Traffic, Circulation and Vehicle Miles Traveled (VMT) Study ("**Traffic Study**") (Mar. 23, 2023), p. 8.

<sup>33</sup> See, **Exhibit D**

the City adopted to determine thresholds of significance for VMTs, which the DIER cites to no reference or link to ascertain. DEIR, at 4.11-8—9.

The DEIR fails to disclose the applicable and verifiable standard of determining traffic impacts under the VMT standard. As such, in addition, to achieve the legislative goals of reducing traffic impacts under SB 743, the Office of Planning and Research (“OPR”) issued its 2018 Technical Advisory on Evaluating Transportation Impacts in CEQA,<sup>34</sup> which recognizes that areas outside of metropolitan planning areas, especially rural counties, have fewer options for reducing VMT. (OPR Advisory, 15-16.) As such, VMT thresholds may be best determined on a case-by-case basis. (*Ibid.*)

Yet, for non-rural areas, the land use project VMT thresholds recommended by OPR for projects in metropolitan planning organization (MPO) areas are listed below:

- For **residential** projects, OPR recommends a **project threshold of 15 percent below the existing VMT per capita**, either measured as a **regional VMT per capita** or as **city VMT per capita**. The VMT for the residential metric only includes VMT generated by residents, some of which starts and ends outside the area.
- For **office** projects, OPR recommends a project threshold of **15 percent below** the existing **regional VMT per employee**. The VMT for the office metric only includes VMT generated by workers employed in the area.
- For **retail** projects, OPR recommends a project threshold of **any net increase** in total area VMT. Another VMT per capita threshold option is total VMT per service population (total of residents and employees). (*Ibid.* at 12-14.)

In addition, according to the OPR’s Technical Advisory on Evaluating Transportation Impacts in CEQA, “projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less-than-significant transportation impact.”<sup>35</sup>

In light of the foregoing thresholds of significance suggested by OPR, the Project’s – which is both residential and retail of high intensity, including a restaurant/bar on a now vacant office site – generated net 1,788 average daily trips clearly exceeds the threshold of net increase in total area VMT for a retail project and fails to meet the 15

<sup>34</sup> See, *Technical Advisory on Evaluating Transportation Impacts in CEQA* (April 2018), pp. 12-14/pdf pp. 14-16, available at: [https://opr.ca.gov/docs/20180416-743\\_Technical\\_Advisory\\_4.16.18.pdf](https://opr.ca.gov/docs/20180416-743_Technical_Advisory_4.16.18.pdf)

<sup>35</sup> Office of Planning and Research, *Technical Advisory on Evaluating Transportation Impacts in CEQA* (Dec. 2018), p. 10/pdf p. 12, available at [https://opr.ca.gov/docs/20190122-743\\_Technical\\_Advisory.pdf](https://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf) (accessed on May 23, 2023.)

percent below the existing VMT per capita threshold of significance for a residential building. The aforementioned analysis shows that the City's VMT analysis and finding of no significant traffic impacts is flawed and omits critical analysis and information suggesting potential traffic impacts.

Therefore, the DEIR's and its transportation analysis are misleading, deficient and flawed, and must be revised and recirculated to fully account for and mitigate the Project's individual and cumulative impacts.

E. The Project May Cause Significant Air Quality, Greenhouse Gas Emission, Water Quality, Noise, and Human Health and Wildlife Impacts

There is an acknowledged direct correlation between the increase in traffic impacts and an increase in their associated air quality, greenhouse gas emission ("**GHG**"), and noise impacts. See e.g., *City of Redlands v. County of San Bernardino* (2002) 96 Cal.App.4th 398, 413, "it is reasonable to assume" that a project enabling physical residential development would have reasonably foreseeable indirect air and other impacts.

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. The transportation sector has three major means of reducing GHG emissions: increasing vehicle efficiency, reducing fuel carbon content, and reducing the amount of vehicle travel."<sup>36</sup>

Similarly, there is an acknowledged nexus between the increase of traffic and an increase in related air quality, GHG impacts, noise, water/flooding impacts and impacts on human health and natural environment, including wildlife and waterways. As described in the 2018 OPR Technical advisory:

"VMT and Other Impacts to Health and Environment. VMT mitigation also creates substantial benefits (sometimes characterized as "co-benefits" to GHG reduction) in both in the near-term and the long-term. Beyond **GHG emissions, increases in VMT** also impact **human health** and the

<sup>36</sup> Office of Planning and Research, *2018 Technical Advisory on Evaluating Transportation Impacts in CEQA* (Dec. 2018) at 2, available at [https://opr.ca.gov/docs/20190122-743\\_Technical\\_Advisory.pdf](https://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf)

**natural environment.** Human health is impacted as increases in **vehicle travel** lead to **more vehicle crashes, poorer air quality**, increases in chronic diseases associated with reduced physical activity, and worse mental health. Increases in vehicle travel also negatively affect other road users, including pedestrians, cyclists, other motorists, and many transit users. The **natural environment is impacted** as **higher VMT** leads to more collisions with wildlife and fragments habitat. Additionally, development that leads to more vehicle travel also tends to consume **more energy, water, and open space** (including farmland and sensitive habitat). This increase in impermeable surfaces **raises the flood risk and pollutant transport into waterways.**<sup>37</sup>

In light of the understated and flawed traffic impact findings, detailed in Section E, *supra*, the DEIR's findings about the traffic-related impacts (air quality, noise, greenhouse gas emissions, etc.) are also understated and flawed. Derivatively, the Project may have adverse impacts on human beings.

In addition, in light of the DEIR's failure to account for the reasonably foreseeable intensity of the restaurant/bar uses, which will be serving many large nearby business structures, schools, and offices as contemplated by the Applicant, the Project may also have significant energy and water impacts. While the DEIR provides that the Project will not have gas appliances for the *residences*, it is apparent that the more intensive other land uses – i.e., restaurant/bar and others – will be using gas appliances. DEIR, 4.4-6.

In addition, the Project will have a swimming pool, which will be open not only to the residents but also to the public: “The project would also include courtyards throughout the site and a swimming pool. The commercial spaces would be open to the public, as well as the outdoor open spaces proximate to those uses. Additional indoor amenities would be provided to the residents.” DEIR, ES-2. As such, the Project may also have significant energy and water impacts, in light of its amenities being open to the public.

Further, as noted above, the cumulative list of related projects to the Project is inaccurate and omits other related projects, especially by the Project Applicant here. This also suggests that the DEIR's conclusions about no impacts on air, GHG, and other impacts are flawed and unsupported.

<sup>37</sup> *Id.* at p. 3.

In sum, the Project may have traffic, air, GHG, energy, water, noise and other impacts, including impacts on human beings and natural environment and the EIR fails to account for or mitigate those.

F. The Project May Have a Cumulative Impact

For purposes of cumulative impacts analysis, CEQA mandates to consider the impacts of the past, present, and reasonably foreseeable future projects. CEQA Guidelines §§ 15063(b)(1) (prepare an EIR “if the agency determines that 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”); 15064(h) (need to consider cumulative impacts of past, other current and “probable future” projects). Even if the Project’s impacts may not be significant, its incremental effects, when added to other past, present, and probable future projects, can be cumulatively significant. CEQA Guidelines §§15065(a)(3), 15130(b)(1)(A), 15355(b).

The DEIR identifies thirteen (13) different cumulative projects within a two-mile (2) radius of the Project Site, with the closest project being just 0.8 miles away at 1875 Newbury Road, Thousand Oaks.<sup>38</sup> Yet, the DEIR asserts that

the related projects are not reasonably close to the project site to have combined impacts that would make the project’s lack of effects be of concern, and none of these related projects are expected to substantially add to a cumulatively shared impact with the project . . . [and thus, n]o further analysis of cumulative impacts . . . [is] required in the EIR.<sup>39</sup>

However, the Project, along with the thirteen (13) other related projects collectively contribute to potentially significant impacts on air quality, noise, and traffic congestion in Thousand Oaks, and collectively burden utilities and public services’ ability to adequately serve the Project Site.

In addition, as mentioned above, the DEIR’s related project list is manifestly incomplete; it even omits the Applicant’s own very recent project, of which the City and the Applicant clearly had notice of.

<sup>38</sup> DEIR, *supra*, at p. 3.0-3.

<sup>39</sup> *Id.* at p. 4.13-12.



Thus, the Project may result in a cumulative impact, and the DEIR's cumulative impact analysis, based on erroneous assumptions and omissions of all related projects, is flawed as a matter of law, making the DEIR fail as an informational document.

#### **IV. CONCLUSION**

For the reasons set forth above, SWMSRCC respectfully requests that the City require the revision and recirculation of the Draft Environmental Impact Report pursuant to CEQA, consistent with the concerns and authority mentioned in this letter.

Sincerely,



Stephanie Papayanis

Attorneys for Southwest Mountain  
States Regional Council of Carpenters

Attached:

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

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

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

April 22, 2022 Article re “Developer buys Amgen property for \$25M” (Exhibit D);

July 29, 2022 Article re “A \$7,000 apartment? Boulevard builder may break record books” (Exhibit E); and

Current List of the Applicant Latigo Group's Development Projects (Exhibit F).

## **EXHIBIT A**



Technical Consultation, Data Analysis and  
Litigation Support for the Environment

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March 8, 2021

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

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

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Dear Mr. Tsai,

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

### Worker Trips and Greenhouse Gas Calculations

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

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

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

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

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

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

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

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

Where:

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

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

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

Where:

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

VMT = vehicle miles traveled

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

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

## Default Worker Trip Parameters and Potential Local Hire Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



## Disclaimer

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

Sincerely,

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

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

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

Paul E. Rosenfeld, Ph.D.

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

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

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

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

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**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company      Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**



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

Project Characteristics - Consistent with the DEIR's model.

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

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

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

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

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

Energy Use -

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

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

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

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

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

**2.0 Emissions Summary**

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

**2.1 Overall Construction****Unmitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr											MT/yr					
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1969	213.1969	0.0601	0.0000	214.6993
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.682 6	1,721.682 6	0.1294	0.0000	1,724.918 7
2023	0.6148	3.3649	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.529 5	1,627.529 5	0.1185	0.0000	1,630.492 5
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9078	52.9078	8.0200e-003	0.0000	53.1082
Maximum	4.1619	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.682 6	1,721.682 6	0.1294	0.0000	1,724.918 7

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

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

Year	ROG	NOx	CO	SO <sub>2</sub>	Fugitive PM <sub>10</sub>	Exhaust PM <sub>10</sub>	PM <sub>10</sub> Total	Fugitive PM <sub>2.5</sub>	Exhaust PM <sub>2.5</sub>	PM <sub>2.5</sub> Total	Bio- CO <sub>2</sub>	NBio- CO <sub>2</sub>	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
tons/yr										MT/yr						
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1967	213.1967	0.0601	0.0000	214.6991
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.682 3	1,721.682 3	0.1294	0.0000	1,724.918 3
2023	0.6148	3.3648	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.529 1	1,627.529 1	0.1185	0.0000	1,630.492 1
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9077	52.9077	8.0200e-003	0.0000	53.1082
Maximum	4.1619	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.682 3	1,721.682 3	0.1294	0.0000	1,724.918 3

ROG	NOx	CO	SO <sub>2</sub>	Fugitive PM <sub>10</sub>	Exhaust PM <sub>10</sub>	PM <sub>10</sub> Total	Fugitive PM <sub>2.5</sub>	Exhaust PM <sub>2.5</sub>	PM <sub>2.5</sub> Total	Bio- CO <sub>2</sub>	NBio- CO <sub>2</sub>	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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

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

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3.896.0732	3.896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
<b>Total</b>	<b>6.8692</b>	<b>9.5223</b>	<b>30.3407</b>	<b>0.0914</b>	<b>7.7979</b>	<b>0.2260</b>	<b>8.0240</b>	<b>2.0895</b>	<b>0.2219</b>	<b>2.3114</b>	<b>236.9712</b>	<b>12,294.1807</b>	<b>12,531.1519</b>	<b>15.7904</b>	<b>0.1260</b>	<b>12,963.4751</b>

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

**2.2 Overall Operational****Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3.896.0732	3.896.0732	0.1303	0.0468	3.913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7.620.4986	7.620.4986	0.3407	0.0000	7.629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	586.6420	585.8052	3.0183	0.0755	683.7567
<b>Total</b>	<b>6.8692</b>	<b>9.5223</b>	<b>30.3407</b>	<b>0.0914</b>	<b>7.7979</b>	<b>0.2260</b>	<b>8.0240</b>	<b>2.0895</b>	<b>0.2219</b>	<b>2.3114</b>	<b>236.9712</b>	<b>12,294.1807</b>	<b>12,531.1519</b>	<b>15.7904</b>	<b>0.1260</b>	<b>12,963.4751</b>

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

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



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

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

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

OffRoad Equipment

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

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

Trips and VMT

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233	0.0216	0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	7.5100e-003	0.0216	0.0291	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	2.9000e-003	0.0641	0.0233	2.0000e-004	6.4100e-003	2.1000e-004	6.6200e-003	1.7300e-003	2.0000e-004	1.9300e-003	0.0000	19.6816	19.6816	1.2800e-003	0.0000	19.7136

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	7.5100e-003	0.0216	0.0291	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	2.9000e-003	0.0641	0.0233	2.0000e-004	6.4100e-003	2.1000e-004	6.6200e-003	1.7300e-003	2.0000e-004	1.9300e-003	0.0000	19.6816	19.6816	1.2800e-003	0.0000	19.7136

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

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

### 3.3 Site Preparation - 2021

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
<b>Total</b>	<b>7.7000e-004</b>	<b>6.0000e-004</b>	<b>6.8100e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7801</b>	<b>1.7801</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7814</b>

#### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>



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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
<b>Total</b>	<b>7.7000e-004</b>	<b>6.0000e-004</b>	<b>6.8100e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7801</b>	<b>1.7801</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7814</b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
<b>Total</b>	<b>0.0796</b>	<b>0.8816</b>	<b>0.5867</b>	<b>1.1800e-003</b>	<b>0.1741</b>	<b>0.0377</b>	<b>0.2118</b>	<b>0.0693</b>	<b>0.0347</b>	<b>0.1040</b>	<b>0.0000</b>	<b>103.5405</b>	<b>103.5405</b>	<b>0.0335</b>	<b>0.0000</b>	<b>104.3776</b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
<b>Total</b>	<b>1.6400e-003</b>	<b>1.2700e-003</b>	<b>0.0144</b>	<b>4.0000e-005</b>	<b>4.1600e-003</b>	<b>3.0000e-005</b>	<b>4.2000e-003</b>	<b>1.1100e-003</b>	<b>3.0000e-005</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.7579</b>	<b>3.7579</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.7607</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
<b>Total</b>	<b>0.0796</b>	<b>0.8816</b>	<b>0.5867</b>	<b>1.1800e-003</b>	<b>0.1741</b>	<b>0.0377</b>	<b>0.2118</b>	<b>0.0693</b>	<b>0.0347</b>	<b>0.1040</b>	<b>0.0000</b>	<b>103.5403</b>	<b>103.5403</b>	<b>0.0335</b>	<b>0.0000</b>	<b>104.3775</b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
<b>Total</b>	<b>1.6400e-003</b>	<b>1.2700e-003</b>	<b>0.0144</b>	<b>4.0000e-005</b>	<b>4.1600e-003</b>	<b>3.0000e-005</b>	<b>4.2000e-003</b>	<b>1.1100e-003</b>	<b>3.0000e-005</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.7579</b>	<b>3.7579</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.7607</b>

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	0.4616	2.0027	3.9885	0.0152	1.2243	0.0121	1.2363	0.3278	0.0112	0.3390	0.0000	1,408.795 <sub>2</sub>	1,408.795 <sub>2</sub>	0.0530	0.0000	1,410.120 <sub>8</sub>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877



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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	0.4616	2.0027	3.9885	0.0152	1.2243	0.0121	1.2363	0.3278	0.0112	0.3390	0.0000	1,408.795 <sub>2</sub>	1,408.795 <sub>2</sub>	0.0530	0.0000	1,410.120 <sub>8</sub>

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

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

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### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

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

#### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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



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

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

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

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

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

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### 3.7 Architectural Coating - 2024

#### Unmitigated Construction Off-Site

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

### Mitigated Construction On-Site

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

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

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162

## 4.2 Trip Summary Information

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

## 4.3 Trip Type Information

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

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

## 4.4 Fleet Mix

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

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Natural Gas Mitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
Natural Gas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

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

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

Land Use	NaturalGas Use	tons/yr										MT/yr						
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284	
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408	
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468	
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468	
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557	
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993	
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301	
Total		0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478	



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

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

Land Use	NaturalGas Use kBtu/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478

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

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e- 003	2.9000e- 004	33.8978
Apartments Mid Rise	3.94697e +006	1,257.587 g	0.0519	0.0107	1,262.086 g
General Office Building	584550	186.2502	7.6900e- 003	1.5900e- 003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e +006	506.3022	0.0209	4.3200e- 003	508.1135
Hotel	550308	175.3399	7.2400e- 003	1.5000e- 003	175.9672
Quality Restaurant	353120	112.5116	4.6500e- 003	9.6000e- 004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e- 003	2.0600e- 003	241.7395
<b>Total</b>		<b>2,512.646 5</b>	<b>0.1037</b>	<b>0.0215</b>	<b>2,521.635 6</b>

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

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
<b>Total</b>		<b>2,512.6465</b>	<b>0.1037</b>	<b>0.0215</b>	<b>2,521.6356</b>

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
<b>Total</b>	<b>5.1437</b>	<b>0.2950</b>	<b>10.3804</b>	<b>1.6600e-003</b>		<b>0.0714</b>	<b>0.0714</b>		<b>0.0714</b>	<b>0.0714</b>	<b>0.0000</b>	<b>220.9670</b>	<b>220.9670</b>	<b>0.0201</b>	<b>3.7400e-003</b>	<b>222.5835</b>

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

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
<b>Total</b>	<b>5.1437</b>	<b>0.2950</b>	<b>10.3804</b>	<b>1.6600e-003</b>		<b>0.0714</b>	<b>0.0714</b>		<b>0.0714</b>	<b>0.0714</b>	<b>0.0000</b>	<b>220.9670</b>	<b>220.9670</b>	<b>0.0201</b>	<b>3.7400e-003</b>	<b>222.5835</b>

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

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

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

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

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

	Indoor/Outdoor Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
<b>Total</b>		<b>585.8052</b>	<b>3.0183</b>	<b>0.0755</b>	<b>683.7567</b>



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

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
<b>Total</b>		<b>585.8052</b>	<b>3.0183</b>	<b>0.0755</b>	<b>683.7567</b>

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

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

**Category/Year**

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

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

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

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

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

**8.2 Waste by Land Use****Mitigated**

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

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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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	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

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

Project Characteristics - Consistent with the DEIR's model.

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

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

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

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

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

Energy Use -

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

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

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



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

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

## 2.0 Emissions Summary

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1521
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	237.1630	46.4588	49.5629	0.1517	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1520
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	237.1630	46.4588	49.5629	0.1517	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288

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

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

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
<b>Total</b>	<b>41.1168</b>	<b>67.2262</b>	<b>207.5497</b>	<b>0.6278</b>	<b>45.9592</b>	<b>2.4626</b>	<b>48.4217</b>	<b>12.2950</b>	<b>2.4385</b>	<b>14.7336</b>	<b>0.0000</b>	<b>76,811.18 16</b>	<b>76,811.18 16</b>	<b>2.8282</b>	<b>0.4832</b>	<b>77,025.87 86</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
<b>Total</b>	<b>41.1168</b>	<b>67.2262</b>	<b>207.5497</b>	<b>0.6278</b>	<b>45.9592</b>	<b>2.4626</b>	<b>48.4217</b>	<b>12.2950</b>	<b>2.4385</b>	<b>14.7336</b>	<b>0.0000</b>	<b>76,811.18 16</b>	<b>76,811.18 16</b>	<b>2.8282</b>	<b>0.4832</b>	<b>77,025.87 86</b>

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

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

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

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

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 112.5****Acres of Paving: 0**

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

**OffRoad Equipment**

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

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

Trips and VMT

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>



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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 <sub>3</sub>	1,292.241 <sub>3</sub>	0.0877		1,294.433 <sub>7</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
<b>Total</b>	<b>0.1916</b>	<b>4.1394</b>	<b>1.5644</b>	<b>0.0136</b>	<b>0.4346</b>	<b>0.0139</b>	<b>0.4485</b>	<b>0.1176</b>	<b>0.0133</b>	<b>0.1309</b>		<b>1,463.056<sub>8</sub></b>	<b>1,463.056<sub>8</sub></b>	<b>0.0927</b>		<b>1,465.375<sub>0</sub></b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>3.3074</b>	<b>1.5513</b>	<b>4.8588</b>	<b>0.5008</b>	<b>1.4411</b>	<b>1.9419</b>	<b>0.0000</b>	<b>3,747.944<sub>9</sub></b>	<b>3,747.944<sub>9</sub></b>	<b>1.0549</b>		<b>3,774.317<sub>4</sub></b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 <sub>3</sub>	1,292.241 <sub>3</sub>	0.0877		1,294.433 <sub>7</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
<b>Total</b>	<b>0.1916</b>	<b>4.1394</b>	<b>1.5644</b>	<b>0.0136</b>	<b>0.4346</b>	<b>0.0139</b>	<b>0.4485</b>	<b>0.1176</b>	<b>0.0133</b>	<b>0.1309</b>		<b>1,463.056<sub>8</sub></b>	<b>1,463.056<sub>8</sub></b>	<b>0.0927</b>		<b>1,465.375<sub>0</sub></b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 <sub>9</sub>	3,685.656 <sub>9</sub>	1.1920		3,715.457 <sub>3</sub>
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.656<sub>9</sub></b>	<b>3,685.656<sub>9</sub></b>	<b>1.1920</b>		<b>3,715.457<sub>3</sub></b>

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

### 3.3 Site Preparation - 2021

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
<b>Total</b>	<b>0.0772</b>	<b>0.0530</b>	<b>0.7250</b>	<b>2.0600e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>204.9786</b>	<b>204.9786</b>	<b>6.0400e-003</b>		<b>205.1296</b>

#### Mitigated Construction On-Site

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
<b>Total</b>	<b>0.0772</b>	<b>0.0530</b>	<b>0.7250</b>	<b>2.0600e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>204.9786</b>	<b>204.9786</b>	<b>6.0400e-003</b>		<b>205.1296</b>

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

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
<b>Total</b>	<b>0.0857</b>	<b>0.0589</b>	<b>0.8056</b>	<b>2.2900e-003</b>	<b>0.2236</b>	<b>1.8100e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.6600e-003</b>	<b>0.0610</b>		<b>227.7540</b>	<b>227.7540</b>	<b>6.7100e-003</b>		<b>227.9217</b>

**Mitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
<b>Total</b>	<b>0.0857</b>	<b>0.0589</b>	<b>0.8056</b>	<b>2.2900e-003</b>	<b>0.2236</b>	<b>1.8100e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.6600e-003</b>	<b>0.0610</b>		<b>227.7540</b>	<b>227.7540</b>	<b>6.7100e-003</b>		<b>227.9217</b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349	1.5041	1.5041	1.5041		6.011.410	6.011.410	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

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

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

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

**Mitigated Construction On-Site**

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



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

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

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

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

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

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

### 3.5 Building Construction - 2022

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.548 2	3,896.548 2	0.2236		3,902.138 4
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,800.685 7	8,800.685 7	0.2429		8,806.758 2
Total	3.6242	15.3350	33.1995	0.1247	9.8688	0.0949	9.9637	2.6381	0.0883	2.7263		12,697.23 39	12,697.23 39	0.4665		12,708.89 66

### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.548 2	3,896.548 2	0.2236		3,902.138 4
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,800.685 7	8,800.685 7	0.2429		8,806.758 2
Total	3.6242	15.3350	33.1995	0.1247	9.8688	0.0949	9.9637	2.6381	0.0883	2.7263		12,697.23 39	12,697.23 39	0.4665		12,708.89 66

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

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

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

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

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

### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
<b>Total</b>	<b>0.0586</b>	<b>0.0361</b>	<b>0.5133</b>	<b>1.5900e-003</b>	<b>0.1677</b>	<b>1.2800e-003</b>	<b>0.1689</b>	<b>0.0445</b>	<b>1.1700e-003</b>	<b>0.0456</b>		<b>158.7723</b>	<b>158.7723</b>	<b>4.1000e-003</b>		<b>158.8748</b>

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

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



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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

### 3.7 Architectural Coating - 2024

#### Unmitigated Construction Off-Site

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

### Mitigated Construction On-Site

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

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

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

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08

## 4.2 Trip Summary Information

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

## 4.3 Trip Type Information

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

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

**4.4 Fleet Mix**

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.7660	6.7462	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
Natural Gas Unmitigated	0.7660	6.7462	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, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

**5.2 Energy by Land Use - Natural Gas****Mitigated**

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
Apartment Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartment Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

## 6.2 Area by SubCategory

Unmitigated

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

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

**6.2 Area by SubCategory****Mitigated**

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

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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

**Village South Specific Plan (Proposed)****Los Angeles-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

**1.2 Other Project Characteristics****Urbanization** Urban **Wind Speed (m/s)** 2.2 **Precipitation Freq (Days)** 33**Climate Zone** 9 **Operational Year** 2028**Utility Company** Southern California Edison**CO2 Intensity (lb/MW/hr)** 702.44 **CH4 Intensity (lb/MW/hr)** 0.029 **N2O Intensity (lb/MW/hr)** 0.006**1.3 User Entered Comments & Non-Default Data**

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

Project Characteristics - Consistent with the DEIR's model.

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

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

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

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

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

Energy Use -

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

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

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



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

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

## 2.0 Emissions Summary

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	237.2328	46.4651	47.3319	0.1455	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	237.2328	46.4651	47.3319	0.1455	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663

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

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

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	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
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
<b>Total</b>	<b>40.7912</b>	<b>67.7872</b>	<b>202.7424</b>	<b>0.6043</b>	<b>45.9592</b>	<b>2.4640</b>	<b>48.4231</b>	<b>12.2950</b>	<b>2.4399</b>	<b>14.7349</b>	<b>0.0000</b>	<b>74,422.37 87</b>	<b>74,422.37 87</b>	<b>2.8429</b>	<b>0.4832</b>	<b>74,637.44 17</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	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
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
<b>Total</b>	<b>40.7912</b>	<b>67.7872</b>	<b>202.7424</b>	<b>0.6043</b>	<b>45.9592</b>	<b>2.4640</b>	<b>48.4231</b>	<b>12.2950</b>	<b>2.4399</b>	<b>14.7349</b>	<b>0.0000</b>	<b>74,422.37 87</b>	<b>74,422.37 87</b>	<b>2.8429</b>	<b>0.4832</b>	<b>74,637.44 17</b>

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

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

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

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

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 112.5****Acres of Paving: 0**

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

**OffRoad Equipment**

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

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

Trips and VMT

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	0.5008	1.4411	1.9419		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 5	1,269.855 5	0.0908		1,272.125 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e- 003	0.1677	1.3500e- 003	0.1690	0.0445	1.2500e- 003	0.0457		160.8377	160.8377	4.7300e- 003		160.9560
<b>Total</b>	<b>0.2019</b>	<b>4.1943</b>	<b>1.5706</b>	<b>0.0133</b>	<b>0.4346</b>	<b>0.0141</b>	<b>0.4487</b>	<b>0.1176</b>	<b>0.0135</b>	<b>0.1311</b>		<b>1,430.693 2</b>	<b>1,430.693 2</b>	<b>0.0955</b>		<b>1,433.081 2</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 9	3,747.944 9	1.0549		3,774.317 4
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>3.3074</b>	<b>1.5513</b>	<b>4.8588</b>	<b>0.5008</b>	<b>1.4411</b>	<b>1.9419</b>	<b>0.0000</b>	<b>3,747.944 9</b>	<b>3,747.944 9</b>	<b>1.0549</b>		<b>3,774.317 4</b>



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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 <sub>5</sub>	1,269.855 <sub>5</sub>	0.0908		1,272.125 <sub>2</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
<b>Total</b>	<b>0.2019</b>	<b>4.1943</b>	<b>1.5706</b>	<b>0.0133</b>	<b>0.4346</b>	<b>0.0141</b>	<b>0.4487</b>	<b>0.1176</b>	<b>0.0135</b>	<b>0.1311</b>		<b>1,430.693<sub>2</sub></b>	<b>1,430.693<sub>2</sub></b>	<b>0.0955</b>		<b>1,433.081<sub>2</sub></b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 <sub>9</sub>	3,685.656 <sub>9</sub>	1.1920		3,715.457 <sub>3</sub>
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.656<sub>9</sub></b>	<b>3,685.656<sub>9</sub></b>	<b>1.1920</b>		<b>3,715.457<sub>3</sub></b>

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

### 3.3 Site Preparation - 2021

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
<b>Total</b>	<b>0.0858</b>	<b>0.0587</b>	<b>0.6629</b>	<b>1.9400e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>193.0052</b>	<b>193.0052</b>	<b>5.6800e-003</b>		<b>193.1472</b>

#### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715,4573</b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
<b>Total</b>	<b>0.0858</b>	<b>0.0587</b>	<b>0.6629</b>	<b>1.9400e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>193.0052</b>	<b>193.0052</b>	<b>5.6800e-003</b>		<b>193.1472</b>

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

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
<b>Total</b>	<b>0.0954</b>	<b>0.0652</b>	<b>0.7365</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.8100e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.6600e-003</b>	<b>0.0610</b>		<b>214.4502</b>	<b>214.4502</b>	<b>6.3100e-003</b>		<b>214.6080</b>

**Mitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
<b>Total</b>	<b>0.0954</b>	<b>0.0652</b>	<b>0.7365</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.8100e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.6600e-003</b>	<b>0.0610</b>		<b>214.4502</b>	<b>214.4502</b>	<b>6.3100e-003</b>		<b>214.6080</b>

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.075 0	3,789.075 0	0.2381		3,795.028 3
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,286.901 3	8,286.901 3	0.2282		8,292.605 8
Total	4.0156	15.5266	30.9685	0.1186	9.8688	0.0957	9.9645	2.6381	0.0891	2.7271		12,075.97 63	12,075.97 63	0.4663		12,087.63 41

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2



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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.075 0	3,789.075 0	0.2381		3,795.028 3
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,286.901 3	8,286.901 3	0.2282		8,292.605 8
Total	4.0156	15.5266	30.9685	0.1186	9.8688	0.0957	9.9645	2.6381	0.0891	2.7271		12,075.97 63	12,075.97 63	0.4663		12,087.63 41

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

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

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

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.400 <sub>7</sub>	3,671.400 <sub>7</sub>	0.2096		3,676.641 <sub>7</sub>
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		7,983.731 <sub>8</sub>	7,983.731 <sub>8</sub>	0.2055		7,988.868 <sub>3</sub>
Total	3.6978	12.1065	28.3496	0.1144	9.8688	0.0803	9.9491	2.6381	0.0743	2.7124		11,655.13 <sub>25</sub>	11,655.13 <sub>25</sub>	0.4151		11,665.50 <sub>99</sub>

#### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 <sub>9</sub>	2,555.209 <sub>9</sub>	0.6079		2,570.406 <sub>1</sub>
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 <sub>9</sub>	2,555.209 <sub>9</sub>	0.6079		2,570.406 <sub>1</sub>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.400 7	3,671.400 7	0.2096		3,676.641 7
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		7,983.731 8	7,983.731 8	0.2055		7,988.868 3
Total	3.6978	12.1065	28.3496	0.1144	9.8688	0.0803	9.9491	2.6381	0.0743	2.7124		11,655.13 25	11,655.13 25	0.4151		11,665.50 99

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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



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

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

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839

## 4.2 Trip Summary Information

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

## 4.3 Trip Type Information

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

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

**4.4 Fleet Mix**

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.7660	6.7462	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
Natural Gas Unmitigated	0.7660	6.7462	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****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

**5.2 Energy by Land Use - Natural Gas****Mitigated**

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
Apartment Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartment Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

## 6.2 Area by SubCategory

Unmitigated

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

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

**6.2 Area by SubCategory****Mitigated**

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

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**



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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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

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

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company      Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

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

Project Characteristics - Consistent with the DEIR's model.

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

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

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

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

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

Energy Use -

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

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

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

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

## 2.0 Emissions Summary

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

**2.1 Overall Construction****Unmitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr											MT/yr					
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7654	210.7654	0.0600	0.0000	212.2661
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6554	1,418.6554	0.1215	0.0000	1,421.6925
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4412	1,342.4412	0.1115	0.0000	1,345.2291
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6355	44.6355	7.8300e-003	0.0000	44.8311
Maximum	4.1592	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6554	1,418.6554	0.1215	0.0000	1,421.6925

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

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

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

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

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

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

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

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3.896.0732	3.896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
<b>Total</b>	<b>6.8692</b>	<b>9.5223</b>	<b>30.3407</b>	<b>0.0914</b>	<b>7.7979</b>	<b>0.2260</b>	<b>8.0240</b>	<b>2.0895</b>	<b>0.2219</b>	<b>2.3114</b>	<b>236.9712</b>	<b>12,294.1807</b>	<b>12,531.1519</b>	<b>15.7904</b>	<b>0.1260</b>	<b>12,963.4751</b>

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

**2.2 Overall Operational****Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3.896.0732	3.896.0732	0.1303	0.0468	3.913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7.620.4986	7.620.4986	0.3407	0.0000	7.629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	586.6420	585.8052	3.0183	0.0755	683.7567
<b>Total</b>	<b>6.8692</b>	<b>9.5223</b>	<b>30.3407</b>	<b>0.0914</b>	<b>7.7979</b>	<b>0.2260</b>	<b>8.0240</b>	<b>2.0895</b>	<b>0.2219</b>	<b>2.3114</b>	<b>236.9712</b>	<b>12,294.1807</b>	<b>12,531.1519</b>	<b>15.7904</b>	<b>0.1260</b>	<b>12,963.4751</b>

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

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



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

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

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

OffRoad Equipment

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

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

Trips and VMT

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233	0.0216	0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	0.0475	0.4716	0.3235	5.8000e-004	0.0496	0.0233	0.0729	7.5100e-003	0.0216	0.0291	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
<b>Total</b>	<b>2.6500e-003</b>	<b>0.0639</b>	<b>0.0209</b>	<b>2.0000e-004</b>	<b>5.6200e-003</b>	<b>2.0000e-004</b>	<b>5.8200e-003</b>	<b>1.5300e-003</b>	<b>1.9000e-004</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>18.9847</b>	<b>18.9847</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>19.0161</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.0496</b>	<b>0.0233</b>	<b>0.0729</b>	<b>7.5100e-003</b>	<b>0.0216</b>	<b>0.0291</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	2.6500e-003	0.0639	0.0209	2.0000e-004	5.6200e-003	2.0000e-004	5.8200e-003	1.5300e-003	1.9000e-004	1.7200e-003	0.0000	18.9847	18.9847	1.2600e-003	0.0000	19.0161

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

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

### 3.3 Site Preparation - 2021

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
<b>Total</b>	<b>5.8000e-004</b>	<b>4.3000e-004</b>	<b>4.8700e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2225</b>	<b>1.2225</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.2234</b>

#### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
<b>Total</b>	<b>5.8000e-004</b>	<b>4.3000e-004</b>	<b>4.8700e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.2225</b>	<b>1.2225</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.2234</b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
<b>Total</b>	<b>0.0796</b>	<b>0.8816</b>	<b>0.5867</b>	<b>1.1800e-003</b>	<b>0.1741</b>	<b>0.0377</b>	<b>0.2118</b>	<b>0.0693</b>	<b>0.0347</b>	<b>0.1040</b>	<b>0.0000</b>	<b>103.5405</b>	<b>103.5405</b>	<b>0.0335</b>	<b>0.0000</b>	<b>104.3776</b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
<b>Total</b>	<b>1.2200e-003</b>	<b>9.0000e-004</b>	<b>0.0103</b>	<b>3.0000e-005</b>	<b>2.8300e-003</b>	<b>2.0000e-005</b>	<b>2.8600e-003</b>	<b>7.5000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.5808</b>	<b>2.5808</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.5828</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
<b>Total</b>	<b>0.0796</b>	<b>0.8816</b>	<b>0.5867</b>	<b>1.1800e-003</b>	<b>0.1741</b>	<b>0.0377</b>	<b>0.2118</b>	<b>0.0693</b>	<b>0.0347</b>	<b>0.1040</b>	<b>0.0000</b>	<b>103.5403</b>	<b>103.5403</b>	<b>0.0335</b>	<b>0.0000</b>	<b>104.3775</b>



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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
<b>Total</b>	<b>1.2200e-003</b>	<b>9.0000e-004</b>	<b>0.0103</b>	<b>3.0000e-005</b>	<b>2.8300e-003</b>	<b>2.0000e-005</b>	<b>2.8600e-003</b>	<b>7.5000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.5808</b>	<b>2.5808</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.5828</b>

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	0.3578	1.9125	2.9812	0.0119	0.8696	9.4100e-003	0.8790	0.2336	8.7800e-003	0.2424	0.0000	1,105.9771	1,105.9771	0.0451	0.0000	1,107.1039

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	0.3578	1.9125	2.9812	0.0119	0.8696	9.4100e-003	0.8790	0.2336	8.7800e-003	0.2424	0.0000	1,105.977 <sub>1</sub>	1,105.977 <sub>1</sub>	0.0451	0.0000	1,107.103 <sub>9</sub>

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

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

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

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

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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



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

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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### 3.7 Architectural Coating - 2024

#### Unmitigated Construction Off-Site

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

#### Mitigated Construction On-Site

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

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

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162

## 4.2 Trip Summary Information

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

## 4.3 Trip Type Information

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

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

**4.4 Fleet Mix**

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0000	0.0000	0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Natural Gas Mitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
Natural Gas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003	0.0966	0.0966	0.0966	0.0966	0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478



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

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr											MT/yr				
Apartment Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004	1.5200e-003	1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartment Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003	0.0487	0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004	1.7500e-003	1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003	0.0310	0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004	6.4900e-003	6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004	6.8800e-003	6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005	3.4000e-004	3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
<b>Total</b>		<b>0.1398</b>	<b>1.2312</b>	<b>0.7770</b>	<b>7.6200e-003</b>		<b>0.0966</b>	<b>0.0966</b>		<b>0.0966</b>	<b>0.0966</b>	<b>0.0000</b>	<b>1,383.426<sub>8</sub></b>	<b>1,383.426<sub>8</sub></b>	<b>0.0265</b>	<b>0.0254</b>	<b>1,391.647<sub>8</sub></b>

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

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

Land Use	NaturalGas Use kBtu/yr	tons/yr										MT/yr					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4268	1,383.4268	0.0265	0.0254	1,391.6478

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

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
<b>Total</b>		<b>2,512.6465</b>	<b>0.1037</b>	<b>0.0215</b>	<b>2,521.6356</b>

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

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
<b>Total</b>		<b>2,512.6465</b>	<b>0.1037</b>	<b>0.0215</b>	<b>2,521.6356</b>

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
<b>Total</b>	<b>5.1437</b>	<b>0.2950</b>	<b>10.3804</b>	<b>1.6600e-003</b>		<b>0.0714</b>	<b>0.0714</b>		<b>0.0714</b>	<b>0.0714</b>	<b>0.0000</b>	<b>220.9670</b>	<b>220.9670</b>	<b>0.0201</b>	<b>3.7400e-003</b>	<b>222.5835</b>

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

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
<b>Total</b>	<b>5.1437</b>	<b>0.2950</b>	<b>10.3804</b>	<b>1.6600e-003</b>		<b>0.0714</b>	<b>0.0714</b>		<b>0.0714</b>	<b>0.0714</b>	<b>0.0000</b>	<b>220.9670</b>	<b>220.9670</b>	<b>0.0201</b>	<b>3.7400e-003</b>	<b>222.5835</b>

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

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

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

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

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

	Indoor/Outdoor Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	Mgal	MT/yr			
Apartment Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartment Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
<b>Total</b>		<b>585.8052</b>	<b>3.0183</b>	<b>0.0755</b>	<b>683.7567</b>



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

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
<b>Total</b>		<b>585.8052</b>	<b>3.0183</b>	<b>0.0755</b>	<b>683.7567</b>

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

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

Category/Year

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

**Unmitigated**

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

**8.2 Waste by Land Use****Mitigated**

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

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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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	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company      Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

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

Project Characteristics - Consistent with the DEIR's model.

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

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

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

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

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

Energy Use -

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

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

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

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

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

## 2.0 Emissions Summary



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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0956
Maximum	237.0219	46.4415	40.8776	0.1240	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0955
Maximum	237.0219	46.4415	40.8776	0.1240	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707

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

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

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
<b>Total</b>	<b>41.1168</b>	<b>67.2262</b>	<b>207.5497</b>	<b>0.6278</b>	<b>45.9592</b>	<b>2.4626</b>	<b>48.4217</b>	<b>12.2950</b>	<b>2.4385</b>	<b>14.7336</b>	<b>0.0000</b>	<b>76,811.18 16</b>	<b>76,811.18 16</b>	<b>2.8282</b>	<b>0.4832</b>	<b>77,025.87 86</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974	1.5974	1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292	0.5292	0.5292	0.5292		8,355.983 2	8,355.983 2	0.1602	0.1532	8,405.638 7
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.60 34	50,306.60 34	2.1807		50,361.12 08
<b>Total</b>	<b>41.1168</b>	<b>67.2262</b>	<b>207.5497</b>	<b>0.6278</b>	<b>45.9592</b>	<b>2.4626</b>	<b>48.4217</b>	<b>12.2950</b>	<b>2.4385</b>	<b>14.7336</b>	<b>0.0000</b>	<b>76,811.18 16</b>	<b>76,811.18 16</b>	<b>2.8282</b>	<b>0.4832</b>	<b>77,025.87 86</b>

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

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

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

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

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 112.5****Acres of Paving: 0**

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

**OffRoad Equipment**

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

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

Trips and VMT

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	1.4411	1.4411	1.9419		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 <sub>3</sub>	1,292.241 <sub>3</sub>	0.0877		1,294.433 <sub>7</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
<b>Total</b>	<b>0.1760</b>	<b>4.1265</b>	<b>1.3884</b>	<b>0.0131</b>	<b>0.3810</b>	<b>0.0135</b>	<b>0.3946</b>	<b>0.1034</b>	<b>0.0129</b>	<b>0.1163</b>		<b>1,409.521<sub>2</sub></b>	<b>1,409.521<sub>2</sub></b>	<b>0.0912</b>		<b>1,411.801<sub>5</sub></b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>3.3074</b>	<b>1.5513</b>	<b>4.8588</b>	<b>0.5008</b>	<b>1.4411</b>	<b>1.9419</b>	<b>0.0000</b>	<b>3,747.944<sub>9</sub></b>	<b>3,747.944<sub>9</sub></b>	<b>1.0549</b>		<b>3,774.317<sub>4</sub></b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.241 <sub>3</sub>	1,292.241 <sub>3</sub>	0.0877		1,294.433 <sub>7</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
<b>Total</b>	<b>0.1760</b>	<b>4.1265</b>	<b>1.3884</b>	<b>0.0131</b>	<b>0.3810</b>	<b>0.0135</b>	<b>0.3946</b>	<b>0.1034</b>	<b>0.0129</b>	<b>0.1163</b>		<b>1,409.521<sub>2</sub></b>	<b>1,409.521<sub>2</sub></b>	<b>0.0912</b>		<b>1,411.801<sub>5</sub></b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 <sub>9</sub>	3,685.656 <sub>9</sub>	1.1920		3,715.457 <sub>3</sub>
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.656<sub>9</sub></b>	<b>3,685.656<sub>9</sub></b>	<b>1.1920</b>		<b>3,715.457<sub>3</sub></b>



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

### 3.3 Site Preparation - 2021

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		140.7359	140.7359	4.2200e-003		140.8414
<b>Total</b>	<b>0.0584</b>	<b>0.0375</b>	<b>0.5139</b>	<b>1.4100e-003</b>	<b>0.1369</b>	<b>1.1400e-003</b>	<b>0.1381</b>	<b>0.0363</b>	<b>1.0500e-003</b>	<b>0.0374</b>		<b>140.7359</b>	<b>140.7359</b>	<b>4.2200e-003</b>		<b>140.8414</b>

#### Mitigated Construction On-Site

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		140.7359	140.7359	4.2200e-003		140.8414
<b>Total</b>	<b>0.0584</b>	<b>0.0375</b>	<b>0.5139</b>	<b>1.4100e-003</b>	<b>0.1369</b>	<b>1.1400e-003</b>	<b>0.1381</b>	<b>0.0363</b>	<b>1.0500e-003</b>	<b>0.0374</b>		<b>140.7359</b>	<b>140.7359</b>	<b>4.2200e-003</b>		<b>140.8414</b>

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

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		156.3732	156.3732	4.6900e-003		156.4904
<b>Total</b>	<b>0.0649</b>	<b>0.0417</b>	<b>0.5710</b>	<b>1.5700e-003</b>	<b>0.1521</b>	<b>1.2700e-003</b>	<b>0.1534</b>	<b>0.0404</b>	<b>1.1700e-003</b>	<b>0.0415</b>		<b>156.3732</b>	<b>156.3732</b>	<b>4.6900e-003</b>		<b>156.4904</b>

**Mitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		156.3732	156.3732	4.6900e-003		156.4904
<b>Total</b>	<b>0.0649</b>	<b>0.0417</b>	<b>0.5710</b>	<b>1.5700e-003</b>	<b>0.1521</b>	<b>1.2700e-003</b>	<b>0.1534</b>	<b>0.0404</b>	<b>1.1700e-003</b>	<b>0.0415</b>		<b>156.3732</b>	<b>156.3732</b>	<b>4.6900e-003</b>		<b>156.4904</b>

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

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

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

### 3.5 Building Construction - 2022

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.548 2	3,896.548 2	0.2236		3,902.138 4
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		6,042.558 5	6,042.558 5	0.1697		6,046.800 0
Total	2.8378	14.7106	24.5142	0.0971	7.0087	0.0741	7.0828	1.8799	0.0691	1.9490		9,939.106 7	9,939.106 7	0.3933		9,948.938 4

### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.548 2	3,896.548 2	0.2236		3,902.138 4
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		6,042.558 5	6,042.558 5	0.1697		6,046.800 0
Total	2.8378	14.7106	24.5142	0.0971	7.0087	0.0741	7.0828	1.8799	0.0691	1.9490		9,939.106 7	9,939.106 7	0.3933		9,948.938 4

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

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



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

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

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

### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

### 3.7 Architectural Coating - 2024

#### Unmitigated Construction Off-Site

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

### Mitigated Construction On-Site

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,126.758 3	1,126.758 3	0.0280		1,127.458 3
Total	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,126.758 3	1,126.758 3	0.0280		1,127.458 3

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



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208

## 4.2 Trip Summary Information

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

## 4.3 Trip Type Information

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

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

**4.4 Fleet Mix**

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Natural Gas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

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

**5.2 Energy by Land Use - Natural Gas****Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

**5.2 Energy by Land Use - Natural Gas****Mitigated**

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
Apartment Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartment Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

## 6.2 Area by SubCategory

Unmitigated

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

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

**6.2 Area by SubCategory****Mitigated**

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

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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

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

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company      Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

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

Project Characteristics - Consistent with the DEIR's model.

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

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

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

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

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

Energy Use -

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

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

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

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

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

## 2.0 Emissions Summary

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.337 7	6,154.337 7	1.9472	0.0000	6,203.018 6
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.34 40	12,035.34 40	1.9482	0.0000	12,060.60 13
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.40 80	11,710.40 80	0.9617	0.0000	11,734.44 97
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.051 7	2,307.051 7	0.7164	0.0000	2,324.962 7
Maximum	237.0656	46.4460	39.6338	0.1195	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	12,035.34 40	12,035.34 40	1.9482	0.0000	12,060.60 13

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.337 7	6,154.337 7	1.9472	0.0000	6,203.018 6
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.34 40	12,035.34 40	1.9482	0.0000	12,060.60 13
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.40 80	11,710.40 80	0.9617	0.0000	11,734.44 97
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.051 7	2,307.051 7	0.7164	0.0000	2,324.962 7
Maximum	237.0656	46.4460	39.6338	0.1195	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	12,035.34 40	12,035.34 40	1.9482	0.0000	12,060.60 13

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

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

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	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
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
<b>Total</b>	<b>40.7912</b>	<b>67.7872</b>	<b>202.7424</b>	<b>0.6043</b>	<b>45.9592</b>	<b>2.4640</b>	<b>48.4231</b>	<b>12.2950</b>	<b>2.4399</b>	<b>14.7349</b>	<b>0.0000</b>	<b>74,422.37 87</b>	<b>74,422.37 87</b>	<b>2.8429</b>	<b>0.4832</b>	<b>74,637.44 17</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.59 50	18,148.59 50	0.4874	0.3300	18,259.11 92
Energy	0.7660	6.7462	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
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.80 05	47,917.80 05	2.1953		47,972.68 39
<b>Total</b>	<b>40.7912</b>	<b>67.7872</b>	<b>202.7424</b>	<b>0.6043</b>	<b>45.9592</b>	<b>2.4640</b>	<b>48.4231</b>	<b>12.2950</b>	<b>2.4399</b>	<b>14.7349</b>	<b>0.0000</b>	<b>74,422.37 87</b>	<b>74,422.37 87</b>	<b>2.8429</b>	<b>0.4832</b>	<b>74,637.44 17</b>

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

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

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

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

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 112.5****Acres of Paving: 0****Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

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

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

Trips and VMT



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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
Total	3.1651	31.4407	21.5650	0.0388	3.3074	1.5513	4.8588	1.4411	1.4411	1.9419		3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 <sub>5</sub>	1,269.855 <sub>5</sub>	0.0908		1,272.125 <sub>2</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
<b>Total</b>	<b>0.1835</b>	<b>4.1800</b>	<b>1.4144</b>	<b>0.0128</b>	<b>0.3810</b>	<b>0.0137</b>	<b>0.3948</b>	<b>0.1034</b>	<b>0.0131</b>	<b>0.1165</b>		<b>1,380.326<sub>2</sub></b>	<b>1,380.326<sub>2</sub></b>	<b>0.0941</b>		<b>1,382.679<sub>1</sub></b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.944 <sub>9</sub>	3,747.944 <sub>9</sub>	1.0549		3,774.317 <sub>4</sub>
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>3.3074</b>	<b>1.5513</b>	<b>4.8588</b>	<b>0.5008</b>	<b>1.4411</b>	<b>1.9419</b>	<b>0.0000</b>	<b>3,747.944<sub>9</sub></b>	<b>3,747.944<sub>9</sub></b>	<b>1.0549</b>		<b>3,774.317<sub>4</sub></b>

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.855 <sub>5</sub>	1,269.855 <sub>5</sub>	0.0908		1,272.125 <sub>2</sub>
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
<b>Total</b>	<b>0.1835</b>	<b>4.1800</b>	<b>1.4144</b>	<b>0.0128</b>	<b>0.3810</b>	<b>0.0137</b>	<b>0.3948</b>	<b>0.1034</b>	<b>0.0131</b>	<b>0.1165</b>		<b>1,380.326<sub>2</sub></b>	<b>1,380.326<sub>2</sub></b>	<b>0.0941</b>		<b>1,382.679<sub>1</sub></b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445	1.8809	1.8809	1.8809		3,685.656 <sub>9</sub>	3,685.656 <sub>9</sub>	1.1920		3,715.457 <sub>3</sub>
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.656<sub>9</sub></b>	<b>3,685.656<sub>9</sub></b>	<b>1.1920</b>		<b>3,715.457<sub>3</sub></b>

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

### 3.3 Site Preparation - 2021

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		132.5649	132.5649	3.9900e-003		132.6646
<b>Total</b>	<b>0.0638</b>	<b>0.0415</b>	<b>0.4755</b>	<b>1.3300e-003</b>	<b>0.1369</b>	<b>1.1400e-003</b>	<b>0.1381</b>	<b>0.0363</b>	<b>1.0500e-003</b>	<b>0.0374</b>		<b>132.5649</b>	<b>132.5649</b>	<b>3.9900e-003</b>		<b>132.6646</b>

#### Mitigated Construction On-Site

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		132.5649	132.5649	3.9900e-003		132.6646
<b>Total</b>	<b>0.0638</b>	<b>0.0415</b>	<b>0.4755</b>	<b>1.3300e-003</b>	<b>0.1369</b>	<b>1.1400e-003</b>	<b>0.1381</b>	<b>0.0363</b>	<b>1.0500e-003</b>	<b>0.0374</b>		<b>132.5649</b>	<b>132.5649</b>	<b>3.9900e-003</b>		<b>132.6646</b>

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

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		147.2943	147.2943	4.4300e-003		147.4051
<b>Total</b>	<b>0.0709</b>	<b>0.0462</b>	<b>0.5284</b>	<b>1.4800e-003</b>	<b>0.1521</b>	<b>1.2700e-003</b>	<b>0.1534</b>	<b>0.0404</b>	<b>1.1700e-003</b>	<b>0.0415</b>		<b>147.2943</b>	<b>147.2943</b>	<b>4.4300e-003</b>		<b>147.4051</b>

**Mitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		147.2943	147.2943	4.4300e-003		147.4051
<b>Total</b>	<b>0.0709</b>	<b>0.0462</b>	<b>0.5284</b>	<b>1.4800e-003</b>	<b>0.1521</b>	<b>1.2700e-003</b>	<b>0.1534</b>	<b>0.0404</b>	<b>1.1700e-003</b>	<b>0.0415</b>		<b>147.2943</b>	<b>147.2943</b>	<b>4.4300e-003</b>		<b>147.4051</b>

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349	1.5041	1.5041	1.5041		6.011.410 <sub>5</sub>	6.011.410 <sub>5</sub>	1.9442		6,060.015 <sub>8</sub>
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.410<sub>5</sub></b>	<b>6,011.410<sub>5</sub></b>	<b>1.9442</b>		<b>6,060.015<sub>8</sub></b>

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

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

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

**Mitigated Construction On-Site**

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



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

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

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

**3.5 Building Construction - 2022****Unmitigated Construction On-Site**

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

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

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.075 0	3,789.075 0	0.2381		3,795.028 3
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		5,691.935 4	5,691.935 4	0.1602		5,695.940 8
Total	3.0904	14.8350	23.2704	0.0926	7.0087	0.0749	7.0836	1.8799	0.0699	1.9498		9,481.010 4	9,481.010 4	0.3984		9,490.969 1

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.075 0	3,789.075 0	0.2381		3,795.028 3
Worker	2.6620	1.8677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		5,691.935 4	5,691.935 4	0.1602		5,695.940 8
Total	3.0904	14.8350	23.2704	0.0926	7.0087	0.0749	7.0836	1.8799	0.0699	1.9498		9,481.010 4	9,481.010 4	0.3984		9,490.969 1

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

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

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

### 3.5 Building Construction - 2023

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.400 7	3,671.400 7	0.2096		3,676.641 7
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,483.797 4	5,483.797 4	0.1442		5,487.402 0
Total	2.8211	11.4799	21.2591	0.0893	7.0088	0.0601	7.0688	1.8799	0.0557	1.9356		9,155.198 1	9,155.198 1	0.3538		9,164.043 7

### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.400 7	3,671.400 7	0.2096		3,676.641 7
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,483.797 4	5,483.797 4	0.1442		5,487.402 0
<b>Total</b>	<b>2.8211</b>	<b>11.4799</b>	<b>21.2591</b>	<b>0.0893</b>	<b>7.0088</b>	<b>0.0601</b>	<b>7.0688</b>	<b>1.8799</b>	<b>0.0557</b>	<b>1.9356</b>		<b>9,155.198 1</b>	<b>9,155.198 1</b>	<b>0.3538</b>		<b>9,164.043 7</b>

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

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

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

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

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

**Mitigated Construction On-Site**

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

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

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

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

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

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

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

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

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

**Mitigated Construction On-Site**

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



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

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

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

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

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

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

### 3.7 Architectural Coating - 2024

#### Unmitigated Construction Off-Site

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

### Mitigated Construction On-Site

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

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

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

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839

## 4.2 Trip Summary Information

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

## 4.3 Trip Type Information

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

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

**4.4 Fleet Mix**

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.7660	6.7462	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
Natural Gas Unmitigated	0.7660	6.7462	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****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Apartment 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
Apartment Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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

**5.2 Energy by Land Use - Natural Gas****Mitigated**

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
Apartment Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartment Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
<b>Total</b>		<b>0.7660</b>	<b>6.7463</b>	<b>4.2573</b>	<b>0.0418</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5292</b>	<b>0.5292</b>		<b>8,355.9832</b>	<b>8,355.9832</b>	<b>0.1602</b>	<b>0.1532</b>	<b>8,405.6387</b>

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



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

## 6.2 Area by SubCategory

Unmitigated

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

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

**6.2 Area by SubCategory****Mitigated**

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

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Attachment C

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

## **EXHIBIT B**



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

*Principal Environmental Chemist*

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

**Risk Assessment & Remediation Specialist**

### **Education**

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

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

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

### **Professional Experience**

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

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

## **Professional History:**

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

## **Publications:**

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**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.

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**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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## **Teaching Experience:**

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

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

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

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

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

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

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

## **Academic Grants Awarded:**

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

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

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

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

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

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

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

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

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

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

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

Rosenfeld Deposition. 6-7-2019

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

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

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

Rosenfeld Deposition. 5-9-2019

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

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

Case No.: No. BC615636

Rosenfeld Deposition, 1-26-2019

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

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

Case No.: No. BC646857

Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado

Bells et al. Plaintiff vs. The 3M Company et al., Defendants

Case: No 1:16-cv-02531-RBJ

Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112<sup>th</sup> Judicial District

Phillip Bales et al., Plaintiff vs. Dow Agrosiences, LLC, et al., Defendants

Cause No 1923

Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa

Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants

Cause No C12-01481

Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois

Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants

Case No.: No. 0i9-L-2295

Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles

Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC

Case No.: LC102019 (c/w BC582154)

Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division

Brenda J. Cooper, et al., *Plaintiffs*, vs. Meritor Inc., et al., *Defendants*

Case Number: 4:16-cv-52-DMB-JVM

Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish  
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants  
Case No.: No. 13-2-03987-5  
Rosenfeld Deposition, February 2017  
Trial, March 2017

In The Superior Court of the State of California, County of Alameda  
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants  
Case No.: RG14711115  
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County  
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants  
Case No.: LALA002187  
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County  
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants  
Law No.: LALA105144 - Division A  
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County  
Doug Pauls, et al., et al., Plaintiffs vs. Richard Warren, et al., Defendants  
Law No.: LALA105144 - Division A  
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia  
Robert Andrews, et al. v. Antero, et al.  
Civil Action NO. 14-C-30000  
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico  
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward  
DeRuyter, Defendants  
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County  
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant  
Case No 4980  
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17<sup>th</sup> Judicial Circuit, in and For Broward County, Florida  
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.  
Case Number CACE07030358 (26)  
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma  
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City  
Landfill, et al. Defendants.  
Case No. 5:12-cv-01152-C  
Rosenfeld Deposition: July 2014



In the County Court of Dallas County Texas

Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant*.

Case Number cc-11-01650-E

Rosenfeld Deposition: March and September 2013

Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio

John Michael Abicht, et al., *Plaintiffs*, vs. Republic Services, Inc., et al., *Defendants*

Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)

Rosenfeld Deposition: October 2012

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

Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs*, vs. BP Products North America, Inc., *Defendant*.

Case 3:10-cv-00622

Rosenfeld Deposition: February 2012

Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland

Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants

Case Number: 03-C-12-012487 OT

Rosenfeld Deposition: September 2013

## **EXHIBIT C**





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Email: [mhagemann@swape.com](mailto:mhagemann@swape.com)

**Matthew F. Hagemann, P.G., C.Hg., QSD, QSP**

**Geologic and Hydrogeologic Characterization  
Industrial Stormwater Compliance  
Investigation and Remediation Strategies  
Litigation Support and Testifying Expert  
CEQA Review**

**Education:**

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.

B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

**Professional Certifications:**

California Professional Geologist

California Certified Hydrogeologist

Qualified SWPPP Developer and Practitioner

**Professional Experience:**

Matt has 25 years of experience in environmental policy, assessment and remediation. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) while also working with permit holders to improve hydrogeologic characterization and water quality monitoring.

Matt has worked closely with U.S. EPA legal counsel and the technical staff of several states in the application and enforcement of RCRA, Safe Drinking Water Act and Clean Water Act regulations. Matt has trained the technical staff in the States of California, Hawaii, Nevada, Arizona and the Territory of Guam in the conduct of investigations, groundwater fundamentals, and sampling techniques.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

**Senior Regulatory and Litigation Support Analyst:**

With SWAPE, Matt’s responsibilities have included:

- Lead analyst and testifying expert in the review of over 100 environmental impact reports since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, Valley Fever, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at industrial facilities.
- Manager of a project to provide technical assistance to a community adjacent to a former Naval shipyard under a grant from the U.S. EPA.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.
- Expert witness on two cases involving MTBE litigation.
- Expert witness and litigation support on the impact of air toxins and hazards at a school.
- Expert witness in litigation at a former plywood plant.

With Komex H2O Science Inc., Matt’s duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.

- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

### **Executive Director:**

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

### **Hydrogeology:**

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

### **Policy:**

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9. Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, *Oxygenates in Water: Critical Information and Research Needs*.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

### **Geology:**

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

### **Teaching:**

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt taught physical geology (lecture and lab and introductory geology at Golden West College in Huntington Beach, California from 2010 to 2014.

### **Invited Testimony, Reports, Papers and Presentations:**

**Hagemann, M.F.**, 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

**Hagemann, M.F.**, 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

**Hagemann, M.F.**, 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Colorado.

**Hagemann, M.F.**, 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

**Hagemann, M.F.**, 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

**Hagemann, M.F.**, 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

**Hagemann, M.F.**, 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

**Hagemann, M.F.**, 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

**Hagemann, M.F.**, 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal representatives, Parker, AZ.

**Hagemann, M.F.**, 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

**Hagemann, M.F.**, 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

**Hagemann, M.F.**, 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

**Hagemann, M.F.**, 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

**Hagemann, M.F.**, 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

**Hagemann, M.F.**, 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

**Hagemann, M.F.**, 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

**Hagemann, M.F.**, 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

**Hagemann, M.F.**, 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.



**Hagemann, M.F.**, 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

**Hagemann, M.F.**, 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

**Hagemann, M.F.**, and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F.** 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

**Hagemann, M.F.**, 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

**Hagemann, M.F.**, 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

**Hagemann, M.F.**, and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

**Hagemann, M.F.**, Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

**Hagemann, M. F.**, Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

**Hagemann, M.F.**, 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

**Hagemann, M.F.** and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

**Hagemann, M.F.**, 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.



**Hagemann, M.F.**, 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

**Other Experience:**

Selected as subject matter expert for the California Professional Geologist licensing examination, 2009-2011.



## Developer buys Amgen property for \$25M

Plans to build 330 apartments, retail

*April 22, 2022*

By Kyle Jorrey

tonewstip@theacorn.com



CHANGING HANDS—Amgen's former Building No. 34 has been sold to the Latigo Group, the same firm developing 299 E. Thousand Oaks Blvd. Last year, Amgen received pre-approval from the council for a concept involving a mix of around 333 apartments and retail on the ground floor. Acorn file photo

If the pharmaceutical market ever dries up, Thousand Oaksbased Amgen might stand a good chance in real estate.

The biotech giant recently sold its old welcome center at 2150 W. Hillcrest Drive to a developer for \$25.5 million.

Latigo Group, the Los Angeles based firm behind the soon-to-be completed mixed-use development at 299 E. Thousand Oaks Blvd., said this week it intends to transform the site off Rancho Conejo Boulevard in Newbury Park into a “beautifully designed mixed-use project that will be an asset to Thousand Oaks and the surrounding community.”

“The Latigo Group strives to create best-in-class properties, in collaboration with future residents and the community,” said Mark Maron, co-founder and managing partner of Latigo, in

a statement.

Before the sale, Amgen received pre-approval from the City Council for up to 333 apartments at the 8.2-acre site, 20% of which were to be offered at below-market rate for income-eligible applicants.

That pre-approval now transfers to Latigo, which will begin the process of getting full entitlements from city staff, the Thousand Oaks Planning Commission and the City Council, which will have to sign off on a general plan amendment to change the property from industrial to mixed-use.

In an April 14 announcement, Latigo said the apartments will feature “top-tier amenities,” including a swimming pool, fitness center, outdoor lounge areas and a pet spa.

As for the retail use, Latigo said it imagines a restaurant/bar where people working at Amgen headquarters and other nearby companies (Skyworks is just down the street) can get together at lunch and after work.

At the April 2021 hearing where the City Council gave the design concept pre-approval, Councilmember Al Adam said the long-vacant welcome center property—formerly Amgen Building No. 34—was the perfect candidate for housing, which the city is desperate to see built.

“With this piece so close to Amgen, it seems to me there’s a great opportunity here for some workforce housing that would certainly benefit the Amgen corporation,” Adam said.

It’s unclear how Latigo’s affordable housing plans will differ from Amgen’s, which proposed either 28 units for very-low-income applicants or 50 units for low-income applicants. To qualify as low-income in Ventura County, a family of four must earn less than \$89,700 a year, according to annual limits set by the federal Department of Housing and Urban Development.

As for when Latigo’s first mixed-use project in the city— 299 E. Thousand Oaks Blvd.— will begin leasing, a spokesperson said it would likely be this fall.

The company is building a three-story, 142-apartment complex with 11,000 square feet of retail space across the street from Tarantula Hill Brewery near Moorpark Road.

Maron said the commercial portion of the project is almost fully leased and will include a specialty coffee shop and sushi restaurant. Two other spaces are available.

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## A \$7,000 apartment? Boulevard builder may break record books

July 29, 2022

By Kyle Jorrey  
tonewstip@theacorn.com



**LUXURY LIVING**—A third-floor unit at the new Santal development at 299 E. Thousand Oaks Blvd., which begins pre-leasing next month, features a 450-square-foot balcony overlooking the city's namesake thoroughfare and 13-foot-high ceilings. Another third-floor unit with a 628-square-foot deck is expected to be the costliest ever rented in T.O. MICHAEL COONS/Acorn Newspapers

Among the 142 apartments that will go on the market later this year at 299 E. Thousand Oaks Boulevard, a few stand out.

On the third floor of the four-story development is a unit that features a 628-square-foot wraparound deck with unparalleled views of the city's namesake thoroughfare. Inside, floor-to-ceiling windows fill the space with natural light; there are backlit mirrors in the bathroom, two-tone cabinets in the kitchen, quartz countertops and a wine cooler.

The blinds are electric and can be controlled along with many other features in the home via a smartphone app.

Mark Maron, managing partner of The Latigo Group, the developer behind the new construction, has taken to calling the space the "mack daddy" unit. It is one of two in the building with 13-

foot-high ceilings, enormous private decks and unobstructed sightlines.

“They’re both phenomenal,” Maron said.

At a time when much of the public discourse around housing is centered on affordability—the project does include 11 affordable units—the spaces are expected to shatter the record for the most expensive apartments ever listed in Thousand Oaks, a combination of market forces (rents citywide are at an all-time high) and the amenity-rich project Latigo is building.



TOP OF THE CITY—Construction is nearing completion at 299 E. Thousand Oaks Blvd. The mixed-use development features 142 units, 11 of which have been designated as “affordable” and will be leased for significantly less than the 131 market-rate apartments. MICHAEL COONS Acorn Newspapers

While declining to give the exact price, Maron hinted in June that one of the units on the third floor (the largest is 1,144 square feet) could fetch as much as \$7,000 a month based on comparable units at new luxury developments in Woodland Hills. The square footage does not include the deck.

Scott Whittaker, Latigo co-founder and partner, said the firm felt the need to create a couple units that were “above and beyond anything else.”

In addition to three third-floor units that have large private decks and boulevard views, there are several premium units on the fourth floor, or penthouse level, that are also expected to fetch top



dollar.

While he acknowledges that the rents might be higher than most residents can afford, Maron said Santal, the name given to the new complex, is addressing an unmet need in Thousand Oaks, especially for those working in life sciences.

“People want high-quality apartments to live in. There’s no reason for them to have to go to the west side of L.A., which many people at Amgen do,” he said.

Whittaker said Santal will offer features that can’t be found elsewhere in the Conejo Valley.

“Even some of the newer projects that have come on-line, they’re not necessarily that bad from a quality standpoint, they just don’t have amenities,” Whittaker said. “They don’t have a nice pool and a nice fitness center and smart technology and co-work space. They just lack all of that stuff.”

For example, Santal, named for a fragrance that comes from sandalwood, will have its own patented scent.

“We’re going to have diffusers actually pump out the scent that we create, which is very much inspired by Le Labo’s Santal,” said Danielle Maron, Latigo vice president.



At the center of the future complex, an “upscale a pool,” the developers said. The project also includes a rooftop terrace with firepit and lounge seating, a robust fitness center and various covered seating areas on the first and second floor. KYLE JORREY/Acorn Newspapers

One of the biggest draws of Santal, according to the developer, is easy access to the commercial businesses on the ground floor. Two anchor tenants have already signed—Go Fish Sushi Bar, which has one location at Simi Valley Town Center, and JOi Cafe, a Westlake staple that is opening its second location—with two more tenants in the works.

“You can walk downstairs, get sushi, walk downstairs, get coffee, get grab-and-go stuff, or you can walk across the street to the brewery (Tarantula Hill),” Whittaker said. “It will be a little

community within itself.”

The city’s first mixed-use development, 1710 on the Boulevard, has had residential tenants for over a year but has yet to welcome a restaurant. A New York-style pizza place is said to be coming soon.

Mark Maron said he’s determined to have every commercial space at Santal filled in short order.

“We’re actively trying to fill up the retail space, which we will,” he said.

Santal starts pre-leasing next month. Prospective tenants can go online and reserve a space in the building by putting down a deposit.

“We expect this thing to lease very, very quickly,” Maron said.



The luxury apartment complex rises above E. Thousand Oaks Boulevard across from Tarantula Hill Brewing Company. Residents are expected to begin moving in sometime in October. Two restaurants, Go Fish Sushi and JOi Cafe, have already signed on to fill the commercial spaces on the bottom floor facing. MICHAEL COONS/Acorn Newspapers

Because competition for the apartments, especially the 11 that will charge a rate that is significantly below market is expected to be fierce, Latigo has brought on property manager Greystar to handle leasing.

Maron said Greystar has special software to detect falsified bank records, which will come in handy as they go through the process of proving that the applicants for the affordable units are income eligible. A married couple, for example, cannot make more than \$50,200 a year in combined income—the threshold to qualify as very-low income in Ventura County.

“The last thing you want is someone to be in there for fraudulent reasons,” Maron said. “Those units are built the exact same way as every other unit, but obviously the rent is dramatically different.”

Those wishing to apply for one of the 11 units are encouraged to go to [santalthousandoaks.com](https://santalthousandoaks.com) once the site goes live Aug. 1.



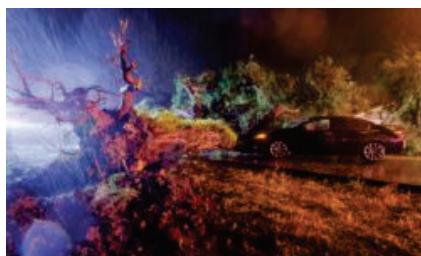
If all goes according to plan, tenants will begin moving in Oct. 1. Maron said Latigo is planning a special opening night event to celebrate, when guests will be able to walk around the complex's courtyard and pool and dine at one of the restaurants.

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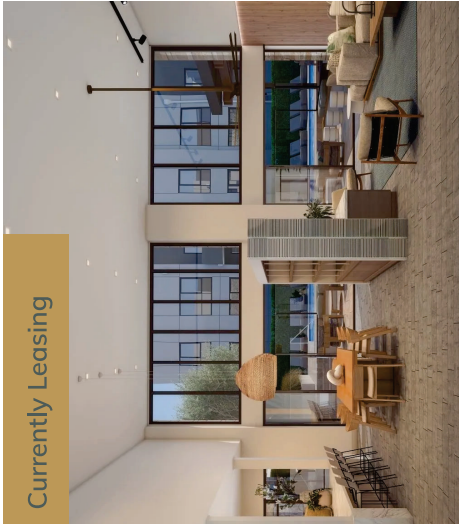


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# CURRENT DEVELOPMENTS



Currently Leasing

## SANTAL

THOUSAND OAKS

**Location:** Thousand Oaks, CA  
**Asset Type:** Mixed-Use  
**Total Units:** 142  
**Retail:** 10,000 sq. ft.  
**Expected Completion:** 2022

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Currently Leasing

## LYNWIND

**Location:** Davenport, FL  
**Asset Type:** Multi-Family  
**Total Units:** 384  
**Expected Completion:** 2023

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## Infield

APARTMENTS

**Location:** Kissimmee, FL  
**Asset Type:** Multi-Family  
**Total Units:** 384  
**Expected Completion:** 2023

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## SOLUNA

**Location:** St. Augustine, FL  
**Asset Type:** Multi-Family  
**Total Units:** 320  
**Expected Completion:** 2023

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## FIORI

**Location:** Naples, FL  
**Asset Type:** Multi-Family  
**Total Units:** 303  
**Expected Completion:** 2024

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## Hillcrest

**Location:** Thousand Oaks CA  
**Asset Type:** Mixed-Use  
**Total Units:** 333  
**Retail:** 6,500 sq. ft.  
**Expected Completion:** 2026

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Coming Soon





**Asset Type:** Multi-Family  
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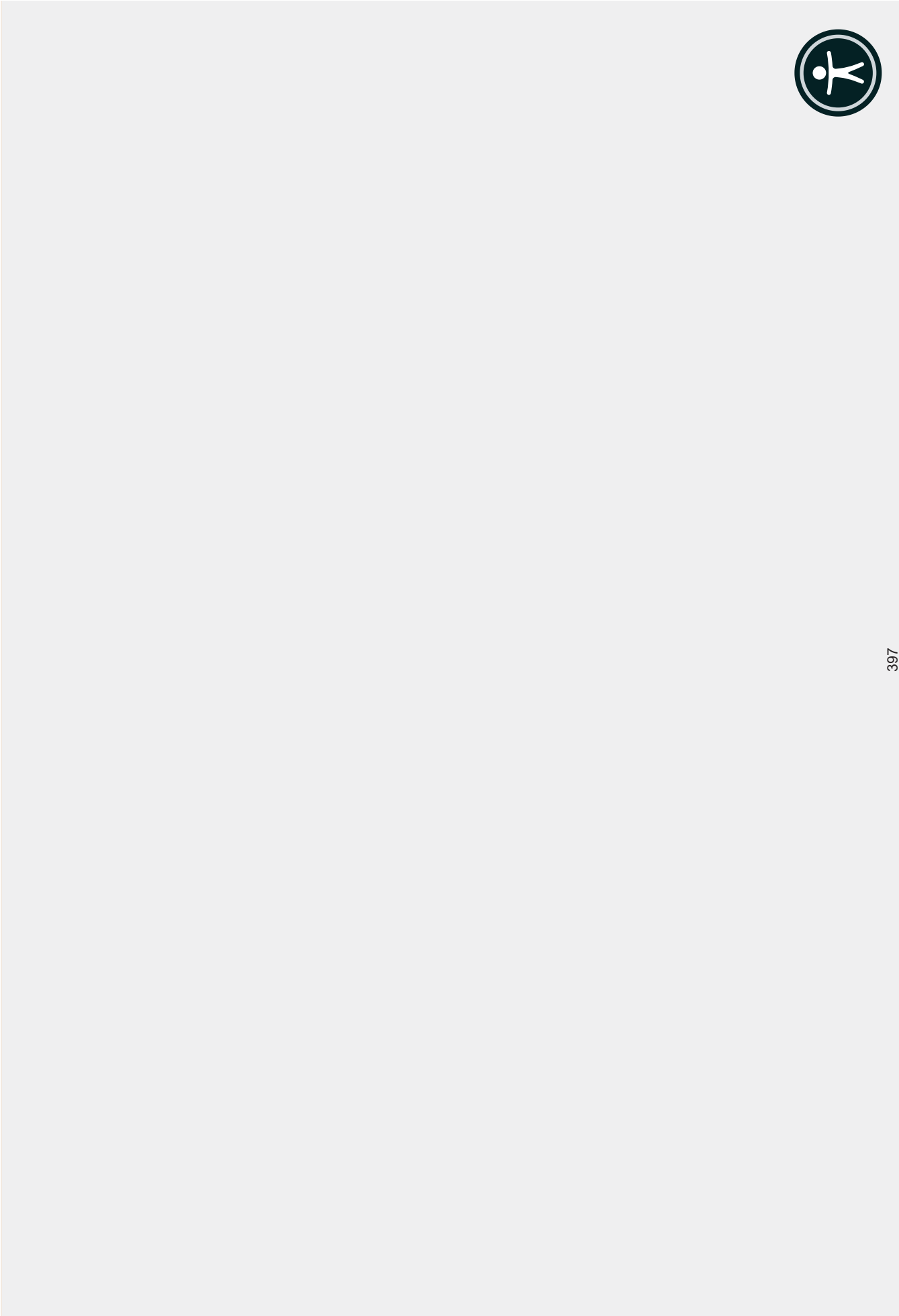


THE LATIGO GROUP

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Accessibility







**TO COUNCIL: 06/20/2023**  
**MEETING DATE: 06/20/2023**

Name	City	Item #	In favor/ Opposed	Comment
Erik McGrath	Newbury Park	6	Opposed	Please leave the Borchard land parcel alone! Your master plan is going to ruin our fine little city. STOP THE BUILDING.
Robert Bushnell	Newbury Park	6	N/A	With regard to the proposed district maps, as a resident of Newbury Park, it is unconscionable to me and 92 percent of my neighbors that any proposed district would remove the Borchard Parcel from Newbury Park south of the 101. That this is even being considered or proposed is outrageous. It's an obvious effort by developers with the assistance of members our city council to do their bidding with no regard for the impact on residents. I'm shocked by how some of our city and county government officials are pandering to special interests. Jeff Gorell's initiative to raise political contribution levels is a case in point. That it was approved, made me sick to my stomach. That's just what we need...more money in politics! We moved here 39 years ago to what we thought was a great community that was managed by responsible people who cared about quality-of-life issues for all of us and not just their own self interests. So much for that dream. It seems the ethics on display in the Los Angeles city government are quickly making their way north. More on the district map for Newbury Park: -The Borchard Parcel and Newbury Park south of the 101 are in the same "community of interest." The voting rights act requires that communities of interest remain together. -Splitting out the Borchard Parcel disenfranchises the residents of NP who will be most affected by development of that property. The voting rights act seeks to prevent this. -After looking at all of the proposed maps, map 104 is the only one that is acceptable to me and, likely, 92 percent of my neighbors. Please do the right thing and consider the people most affected by your governance. Robert A. Bushnell 198 Regal Oak Court Newbury Park, CA 91320
Kerry Luckett	Newbury Park	8A	Opposed	Upon reviewing proposed districting maps, i am in favor of Map #104. The Borchard Parcel & NP south of the 101 are in the same "community of interest" & the voting rights act requires that communities of interest remain together. Splitting out the Borchard Parcel disenfranchises the residents of NP who will be most affected by development of that property. The voting rights act seeks to prevent this.
Karen Wilburn	Newbury Park	8A	N/A	I represent Conejo Valley Advocates for Sensible Planning. CVASP opposes any map which separates the Borchard Parcel from the main area of Newbury Park south of the 101. The voting rights act requires "Communities of Interest" remain together. Since the residents of this area of Newbury Park are the ones who will be most affected by development of this parcel it must be included in the same district. We have a right to elect the person who will oversee this parcel. This would disqualify Maps, 101, 104, 106, 107, 108, 109 & 111. In our opinion Map 104 is the best choice.

Name	City	Item #	In favor/ Opposed	Comment
Lisa Gunn	Newbury Park	8A	Opposed	To all of our council members my apologies that we could not attend this meeting as work stands in the way. But we are so very concern and want to let it be known the we agree any map which removes the Borchard Parcel from Newbury Park south of the 101 is unacceptable. The Borchard Parcel & NP south of the 101 are in the same "community of interest" & the voting rights act requires that communities of interest remain together. Splitting out the Borchard Parcel disenfranchises the residents of NP who will be most affected by development of that property. The voting rights act seeks to prevent this. As residents of Thousand Oaks for over 50 years we want it to known to council this is not ok and demand what is fair. After looking at all of them, map #104 seems to be the fairest. Which is supported by CVASP. We most certainly agree. Thank you for having the accessibility for us to voice our concerns and opinions on this. The Gunns
Megan Perry Sandoval	Newbury Park	8A	Opposed	please please please any map that removes the Borchard Parcel from Newbury Park so of the 101 is unacceptable to me as a resident of NP. The Borchard parce and the NP So of the 101 are exactly SAME COMMUNITY OF INTEREST and changing it will greatly affect the outcome of our community and the residents affected by the lack of NP representation...please please please do not split this up. I have been a resident for 30 years...and really greatly upset by the what appears to be sneaky actions to assign it to Bob Englers area: This is CLEARLY not in the interest of your residents of Newbury Park. PLEASE PLEASE PLEASE>...do not do this.
John Cottriel	Newbury Park	8A	Opposed	The Borchard Parcel and Newbury Park south of Hwy 101 co-exist in the same "interested community" which the voting rights act requires to remain together. Maps 101, 105, 106, 107, 108, 109 & 111 are not acceptable to me and likely most other Newbury Park residents south of Hwy 101. Why has that little triangle been delineated outside of the rest of Newbury Park on the south side of Hwy 101? What sense does that make, especially in Maps 106 & 111 while the rest of that 857 count population zone is included in Area 1? Removing the Borchard Parcel from Area 1 disconnects those residents of Newbury Park who would be most affected by any development of that property. The intent of the voting rights act seeks to prevent this kind of segregation.
R Scott Horn	Newbury Park	8A	N/A	Any district maps that take the Borchard Wetland parcel out of the Newbury Park district is UN-Acceptable. -Splitting out the Borchard Parcel disenfranchises the residents of NP who will be most affected by development of that property. The voting rights act seeks to prevent this. I support map 104

Name	City	Item #	In favor/ Opposed	Comment
Barbara Leighton	Newbury Park	8A	N/A	<p>Dear Councilmembers:</p> <p>As the Council considers choosing a District Map for future elections, please keep in mind the importance of fair representation within our population. I believe that when people feel heard they have a greater stake in the decisions made and we all benefit.</p> <p>For me, Map 104 does the best job of keeping districts within areas of common interest. The focus of multi-family housing in District 5 of this map, provides potential for a Council voice that may otherwise be missing in the future. Map 104 respects natural boundaries and is fair about preserving seats of current Councilmembers.</p> <p>I hope you will give careful consideration to Map 104 for the long-term benefit and vitality of our whole, beautiful city.</p> <p>Sincerely, Barbara Leighton</p>
Lynda Karl	Thousand Oaks	8A - Transition to District	In favor	<p>City Council Members,</p> <p>My name is Lynda Karl, a long-time resident of Thousand Oaks and President of Adelante Comunidad Conejo. Today, I have a recommendation and a request.</p> <p>Taking into consideration The Fair Maps Act definition of communities of interest as "socio-economic geographic areas that should be kept together to the extent possible for their effective and fair representation." I would like to make a supporting recommendation for the adoption of map #104. Just like Conejo Recreation and Park District as well as Conejo Valley Unified School District saw the value of creating a map that included an area that runs along the 101 and 23 Fwys; with the adoption of map #104, our City Leaders will be showing respect for the insights and input of the Thousand Oaks residents who live in multi-family housing. These constituents don't just deserve to have their voices heard; their input is needed; after all, they're the fastest growing, youngest part of our city.</p> <p>Now to my request, maps #106, and #111 have the potential to ensure that NP communities of interest remain together as intended in the Voting Rights Act, but the area of NP, directly south of the 101 Fwy should be taken out of District #2 and incorporated into District #1.</p> <p>Respectfully, Lynda Karl President of Adelante Comunidad Conejo</p>