

## Environmental Documents

**FINAL MITIGATED NEGATIVE DECLARATION**

New Single-Family Residence

**A. Response to Comments**

The following comment letters/email correspondences were received on the Proposed Mitigated Negative Declaration through the consultation process.

Organization	Name of Commenter	Date on Letter	Letter No.
Resident	Dianna Miller	5/18/20	1
Resident	John W. Ayers	5/20/2020	2
Resident	Berj, Sonia and Robert Kradjian	5/20/2020	3
Resident	Rose Abdoo and John Matta	5/20/2020	4
Resident	Jonathan Weil	5/20/2020	5
Adams Hill Neighborhood Association	Rondi Werner	5/20/2020	6
Resident	Courtney Saavedra	5/20/20	7
Resident	Mary Baldwin	5/20/2020	8

**B. Mitigation Monitoring and Reporting Program (attached).****C. Proposed Mitigated Negative Declaration (attached).**

**Response to Comment****Comment Letter 1**

- 1-1. A Report of Geotechnical Investigation (geotechnical report) was prepared by Applied Earth Sciences (AES), dated April 1, 2019, to evaluate the project site's slope stability and provide recommendations for design and construction of temporary excavations, retaining walls, foundations, and grading. During the course the AES investigation, the geotechnical study consisted of the excavation, inspection, sampling and logging of six test pits with depths ranging from 2-feet to 5-feet at the project site. It was observed that the location of the new building and retaining walls is underlain by minor surficial fill, native soils, and sedimentary sandstone bedrock. Bedrock was encountered in all of the six test pits, which was found to be moderately well indurated, crumbly to slightly friable, medium dense to dense, and slightly moist. The bedrock is expected to provide very good support for the Project through conventional spread footing. Piles will be used to support high walls where temporary shoring is used.

The vertical cuts from the planned grading (excavation) work will be supported by retaining walls. Most of the retaining walls will be integrated into the proposed building and will be part of the permanent structure. These walls will be designed as "restrained walls" and will be restrained against rotation. This retaining wall will have a freeboard of at least two feet and a concrete paved drain (swale) to divert surface water and collect normal erosion debris. For support of high cuts, use of temporary shoring will reduce the volume of over-excavation and the subsequent backfilling. The shoring will consist of cantilevered soldier piles. The piles will be incorporated into the retaining walls and be part of the permanent structures. The lower portions of the shoring piles (below the base of the excavation) will be used to provide vertical support through skin friction. Based upon the findings of the AES geotechnical report, the bedrock will provide very good support for the Project through conventional spread footing. Constructing the project consistent with the recommendations in the geotechnical report would ensure that no significant impacts to the stability of the slope or damage to the existing residential buildings will occur.

- 1-2. There would be a temporary increase in day time traffic as a result of the construction activities including haul truck, delivery trucks and construction worker vehicles. A traffic control plan will be required for project construction. The plan will be required to identify all traffic control measures, signs, and delineators to be implemented by the construction contractor. The plan will also be required to identify contractor information, hours of construction, construction worker parking information, as well as the proposed haul route.

Construction associated with the project will be required to comply with the City of Glendale Noise Ordinance (Municipal Code Chapter 8.36), which prohibits construction activities from occurring during prohibited hours that have been established in the GMC. Prohibited hours refers to any time after the hour of 7:00 PM of any day; any time before the hour of 7:00 AM of any day; any time on Sunday; and any time on holidays. In accordance with the Noise Ordinance, construction would be prohibited from 7:00 PM to 7:00 AM every night and from 7:00 PM on Saturday to 7:00 AM on Monday.

Heavy construction equipment (e.g. bulldozer and excavator) would generate a limited amount of noise during construction activities at short distances away from the source. The use of equipment would most likely be limited to a few hours spread over several days during demolition/grading activities. Post-construction on-site activities would be limited to mechanical equipment (e.g., air handling unit and exhaust fans) that would not generate excessive ground-borne noise.

**Comment Letter 2**

- 2-1. See to Response 1-1 above.
- 2-2. Mitigation measure GEO-1 requires for site work to be under continuous observation and testing to identify if significant variations are noted in the geologic features of the underlying bedrock by a specialized professional at various stages of construction, such as:

- An **Engineering Geologist** shall inspect the cut slopes at a point where five feet of bedrock is exposed to confirm the results of the geotechnical report's findings.
  - Prior to placing any backfilling, a **Soils Engineer and/or Engineering Geologist** shall observe the excavation bottoms. All backfill materials shall be placed under engineering observation and in accordance to the guidelines of geotechnical report.
  - Excavation activities and all structural foundations (footing and piles) shall be observed and approved by a **Registered Professional Engineer and/or Certified Engineering Geologist** before the reinforcing is placed.
  - All shoring piles shall be inspected by a qualified professional, such as a **Grading Deputy**.
- 2-3. Construction activity associated with project development may result in wind and water driven erosion of soils due to grading activities if soil is stockpiled or exposed during construction. However, this impact is considered short-term in nature since the site would expose small amounts of soil during construction activities. Further, as part of the Project, the applicant would be required to adhere to Glendale Municipal Code Chapter 13.42 requirements and prepare and administer a plan that effectively provides for a minimum stormwater quality protection throughout Project construction. The plan would incorporate Best Management Practices (BMPs) to ensure that potential water quality impacts from water-driven erosion during construction would be reduced to less than significant. In addition, the applicant would be required to adhere to South Coast Air Quality Management District (SCAQMD) Rule 403 - Fugitive Dust, which would further reduce the impact related to soil erosion to less than significant.
- Additionally, mitigation measure GEO-2 has been incorporated requiring that all slopes shall be covered with erosion resistant vegetation that are low water consumptive, fire retardant and deep rooted ground cover with proper irrigation to enhance soil cover stability.
- 2-4. There would be a temporary increase in day time traffic as a result of the construction activities. A traffic control plan will be required for project construction. The plan will be required to identify all traffic control measures, signs, and delineators to be implemented by the construction contractor. The plan will also be required to identify contractor information, hours of construction, construction worker parking information, as well as the proposed haul route. The traffic control plan will be reviewed and approved by the Public Works Department prior to start of any construction activities on the project site, including the delivery of materials.
- 2-5. This comment has been forwarded to the DRB for their consideration.

### Comment Letter 3

- 3-1. This comment has been forwarded to the DRB for their consideration.
- 3-2. The proposed two-story dwelling will be built into the hillside to set the building's mass into the upsloping topography, allowing the dwelling's roofline to follow the contour of the slope and be sensitive to the visual character of hillside in a manner consistent with the City's Hillside Design Guidelines. The new single-family dwelling will be constructed with materials, such as smooth stucco and horizontal wood strip siding to complement the natural setting of the site, as well as the surrounding neighborhood. The modern design and contemporary material palette is consistent with the diverse architectural character of homes in Adams Hill, including several nearby houses that reflect modernist design principles and materials of an earlier era. Further discussion, analysis and recommended conditions are included within the Design Review Board staff report.
- 3-3. A total of approximately 1,060 cubic yards of soil will be graded and exported offsite. The California Emissions Estimator Model (CalEEMod version 2016.3.2) was used to estimate air quality impacts during the construction and operation stages of the project. Results from the model indicate that the proposed project would not exceed thresholds for construction, area, or operational impacts.
- Therefore, the project would not expose sensitive receptors to a substantial pollutant concentration or create emissions that exceed known thresholds. The applicant would be required to adhere to

South Coast Air Quality Management District (SCAQMD) Rule 403 - Fugitive Dust, which would further reduce the impact related to construction-related impacts.

- 3-4. See Responses 1-1 and 2-2 above.

**Comment Letter 4**

- 4-1 This comment has been forwarded to the DRB for their consideration.  
4-2 See Response 3-3 above.

**Comment Letter 5**

- 5-1 This comment has been forwarded to the DRB for their consideration.  
5-2 See Responses 3-1 above.  
5-3 See Responses 3-2 above.  
5-4 See Responses 1-1 and 2-2 above.

**Comment Letter 6**

- 6-1 This comment has been forwarded to the DRB for their consideration.  
6-2 See Response 3-1 above.  
6-3 Under the “Site Surface Conditions” section of the Applied Earth Science’s (AES) geotechnical report, it acknowledges the project site is bounded by vacant lots to the north and south and by single family dwellings to the east. Based on the geotechnical engineering data derived during the report’s investigation (reference Response 1-1 above), the proposed construction and grading, following the recommendations in the report, will be safe for the proposed structures against the hazard of landslide, settlement, or slippage.  
6-4 During the course of the AES investigation, the geotechnical study consisted of the excavation, inspection, sampling and logging of six test pits at the project site at depths of 2-feet to 5-feet. Bedrock was encountered in all of the test pits, which was found to be moderately well indurated, crumbly to slightly friable, medium dense to dense, and slightly moist. The bedrock was determined to provide very good support for the Project through conventional spread footing.  
6-5 The recommendations in the report condition that all structural foundations (footings and piles) will be established in bedrock, mitigation measures have been added to the project requiring the project to be constructed per the recommendations in the study. Field observations are required by mitigation measure GEO-1 at various stages of construction to verify the findings of the report, and to identify significant variations in the geologic features.

**Comment Letter 7**

- 7-1 This comment has been forwarded to the DRB for their consideration.  
7-2 There would be a temporary increase in day time traffic as a result of the construction activities. A traffic control plan will be required for project construction. The plan will be required to identify all traffic control measures, signs, and delineators to be implemented by the construction contractor. The plan will also be required to identify contractor information, hours of construction, construction worker parking information, as well as the proposed haul route. The traffic control plan will be reviewed and approved by the Public Works Department prior to start of any construction activities on the project site, including the delivery of materials  
7-3 See Responses 1-1, 2-2, 6-2, 6-3, and 6-4 above.  
7-4 A small portion of the site near the lower northwest corner of parcel has been identified by the City’s Safety Element to be located within an area susceptible to seismic-induced landslides. However, no evidence of ancient or recent landslides, surficial, slumps, erosion or any other evidence of slope instability were observed at the time of field investigation as noted in the geotechnical study. The construction of the project will be required to adhere to all applicable building codes that address

possible seismic activity, as is required for all project constructed in California. Therefore, no significant impact related to landslides is anticipated.

A geotechnical report was prepared, which consisted of the excavation, inspection, sampling and logging of six test pits at depths ranging from 2-feet to 5-feet at the location of the new building and retaining walls. Results of the test pits showed that the location of the building and retaining walls are underlain by minor surficial fill, native soils, and sedimentary sandstone bedrock. The bedrock was found to be moderately well indurated, crumbly to slightly friable, medium dense to dense, and slightly moist. The bedrock is expected to provide very good support for the Project through conventional spread footing. Mitigation measures have been added to the project to ensure consistency with the recommendations in the geotechnical study.

7-5 See Responses 1-1, 2-2, 6-2, 6-3, and 6-4 above.

**Comment Letter 8**

8-1 This comment has been forwarded to the DRB for their consideration.

8-2 See Responses 1-1, 2-2, 6-2, 6-3, 6-4 and 7-3 above.

**Comment Letter 9**

9-1 This comment has been forwarded to the DRB for their consideration.

9-2 See Responses 1-1, 2-2, 6-2, 6-3, 6-4 and 7-3 above.

9-3 See Responses 3-2 above.

9-4 See Response 3-3 above.

1248 Corona Drive

**MITIGATION MONITORING AND REPORTING PROGRAM**

**GEOLOGY AND SOILS**

**GEO -1** All earth work, including at a minimum, site preparation, grading and compaction of fill shall be conducted under continuous observation and testing by a Registered Professional Engineer and/or Certified Engineering Geologist.

- An Engineering Geologist shall inspect the cut slopes at a point where five feet of bedrock is exposed to confirm the results of the geotechnical report's findings.
- Prior to placing any backfilling, a Soils Engineer and/or Engineering Geologist shall observe the excavation bottoms. All backfill materials shall be placed under engineering observation and in accordance to the guidelines of geotechnical report.
- Excavation activities and all structural foundations (footing and piles) shall be observed and approved by a Registered Professional Engineer and/or Certified Engineering Geologist before the reinforcing is placed.
- All shoring piles shall be inspected by a qualified professional, such as a Grading Deputy.

<b>Monitoring Action:</b>	Site Inspection
<b>Timing:</b>	During all site preparation and construction activities
<b>Responsibility:</b>	Registered Professional Engineer and/or Certified Engineering Geologist

**GEO -2** All slopes shall be covered with erosion resistant vegetation that are low water consumptive, fire retardant and deep rooted ground cover with proper irrigation to enhance soil cover stability.

<b>Monitoring Action:</b>	Plan Review; Site Inspection
<b>Timing:</b>	Prior to issuance of development permits (plan review) Prior to final approval of building permits (site inspection)
<b>Responsibility:</b>	Director of Community Development

**Agreement to Proposed Mitigation Measures and Mitigation Monitoring Program**

I/WE THE UNDERSIGNED PROJECT APPLICANT(S), HEREBY AGREE TO MODIFICATION OF THE PROJECT TO CONFORM WITH THE IMPACT MITIGATION MEASURES AND THE MITIGATION MONITORING PROGRAM SPECIFIED HEREIN REGARDLESS OF CHANGE OF OWNERSHIP. IF I/WE DISAGREE WITH ANY RECOMMENDED MITIGATION MEASURES OR ALL OR PART OF THE MITIGATION MONITORING PROGRAM, IN LIEU OF MY/OUR SIGNATURE HEREON, I/WE MAY REQUEST RECONSIDERATION OF THE MATTER UPON SUBMITTAL OF THE APPLICABLE FEE AND DOCUMENTATION IN SUPPORT OF MY/OUR POSITION ON SAID MITIGATION MEASURES AND/OR MITIGATION MONITORING PROGRAM. (THE ENVIRONMENTAL AND PLANNING BOARD WILL RECONSIDER THE ISSUES AND TAKE ACTION AS DEEMED APPROPRIATE.)

Dated:

\_\_\_\_\_

\_\_\_\_\_  
Signature(s) of the Project Applicant(s)

Dated:

\_\_\_\_\_

\_\_\_\_\_

# Construction of home at 1248 Corona Drive, Glendale 91205

Diane Miller <ilvgull@sbcglobal.net>

Mon 5/18/2020 5:05 PM

To: Joe, Dennis <DJoe@Glendaleca.gov>;

CAUTION: This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

Attention: Joe Dennis,

Once again we are submitting a letter to object to this process for the same reasons we did on Jan. 8, 2019. Am sure you have that letter in your possession. Plans show the total square footage was reduced in some areas....but NOT MUCH! However, the fact that in Jan. 2019 , 1100 cubic yards of soil were to be removed and NOW. 1,058 cubic yards does little to ease the mind of the owners of the houses above the construction !!.

1-1 The average slope allowed is 60%.....and this lot has a slope of 70%! As referenced in our first letter, a similar situation of a project on Vista Superba dr. has a 70% slope and was rejected . So why would this one be allowed? Sounds fishy to us!,,  
The retaining wall proposed does not seem high enough to support the hillside.....having lived here 50 years, we have experienced seismic Activity where we shook like a jackhammer and we are on a flat pad.....not on a hillside.

1-2 Having more trucks, noise, less safety and disturbances is spoiling the character of this once desirable hillside community. Glendale was a Jewel City but the continued overbuilding downtown and on every square inch of available land because developers are looking to make money without considering how they affect lives of those impacted is unconscionable!! As they say....THERE GOES THE NEIGHBORHOOD!!!

So once again we ask you to please consider to vote NO on this project!,,

Laura Friedman had the fortitude to do it in the past on a proposed project on Vista Superba Dr. . so let's see it done this time also!,, There is already an eyesore of a home construction project across the street on Corona that was allowed to remain unfinished! Numerous complaints have gotten NOWHERE!!! Makes the neighborhood look trashy!,,

Submitted by Kenneth and Diane Miller  
1203 Vista Superba Drive  
Glendale, Ca. 91205

Sent from my iPad



John W. Ayers  
1321 Corona Drive  
Glendale, CA 91205

## Comment Letter 2

May 20, 2020

To: Mr. Dennis Joe  
Planning Department/DRB  
City of Glendale  
633 East Broadway Rm 103  
Glendale, CA 91206

Re: 1248 Corona Drive  
DRB Case No. PDR 2004770  
Mitigated Negative Declaration

As neighbors to the south of the property referenced above, we write to express our opposition of this project. Our objections are:

- 2-1 Excavation of the steep hillside by the removal of 1,060 yards of soil will undermine support of the hillside and threaten homes directly above. In the least, shoring should be considered/required with the addition of piles or caissons before excavation begins. Project
- 2-2 planning should include discussions with contractors who specialize in grading, shoring and excavation on steep hillsides and plans and drawings shared with affected homeowners.
- 2-3 - We disagree with the Director of Community Development that this excavation will have "no effect on the environment". The Adams Hill environment is affected every day by natural erosion, SFD's that are multi dwellings, too many parked cars and narrow streets that can't be
- 2-4 widened. That's our environment and this project will only exasperbate those current issues.
- 2-5 - Slope. According to the Hillside Ordinance approved by the Planning Department and City Council that has become the clear standard by which compatibility is measured for Adams Hill, it appears this design goes outside those proposed guidelines. We ask again you deny the applicant and any variance sought to those standards.

Thank you for your consideration. Please ensure a copy of our objections is distributed to all appropriate city departments and recorded at the Design Review Board meeting May 28, 2020.

John W. Ayers  
1321 Corona Drive  
Glendale, CA 91205

## Oppose Construction for DRB Case No. PDR 2004770

## Comment Letter 3

Robert Kradjian <rkradjian@gmail.com>

Wed 5/20/2020 5:19 AM

To: Agajanian, Vrej <VAgajanian@Glendaleca.gov>; Najarian, Ara <ANajarian@Glendaleca.gov>; Devine, Paula <PDevine@Glendaleca.gov>; Kassakhian, Ardashes <AKassakhian@Glendaleca.gov>; Brotman, Daniel <dbrotman@Glendaleca.gov>; Adjemian, Aram <AAadjemian@Glendaleca.gov>; Joe, Dennis <DJoe@Glendaleca.gov>;

**CAUTION:** This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

Dear Dennis,

I am writing to oppose the proposed development at 1248 Corona Drive, Glendale 91205.

3-1

1. The applicant did not significantly reduce the size, mass, and scale of the project as recommended by DRB on January 10, 2019. The total square footage size has been reduced by 10%, from 2,566 square feet to 2299 square feet. Note, the garage space is an additional 545 square feet.
2. The Geotechnical Investigation report prepared by AES, the geotechnical engineer, on April 1, 2019 on page 15 of the PDF confirms that many retaining walls will be required to construct the proposed project, with a maximum height of 25 feet. The cost of such a wall is at a minimum \$500,000. Does the developer have enough money to maintain the structural integrity of the hillside if more retaining walls are required to sustain the hillside?
3. A reminder there is another project (1255 Corona Drive) across from this proposed project (1248 Corona Drive) that has been under construction for over 15 years. **This project should be a compelling indication that the 1248 Corona Drive project will be dangerous, problematic, and very expensive for the developer.** The City of Glendale has been unable to enforce the building permits that requires 20% progress every 6 months. The project at 1255 Corona Drive is still incomplete after 15 years.

3-2

4. Aesthetics - The proposed project estimates approximately 1,060 cubic yards of soil. The dwelling will be constructed into the hillside to set the building's mass into the up-sloping topography. According to Chapter 30.47 of the Glendale Municipal Code that will ensure less than significant impacts to the visual character of the quality of the site and its surroundings. There are no other homes built in this stretch of land. The developer has combined three vacant lots to get around the hillside slope ratio and as a result, is proposing to build a long and narrow home unlike any other home on Adam Hill. Further, the proposed numerous retaining walls do not comply with the intent of the Hillside Design Guidelines nor is it sensitive to the surrounding properties.
5. The architectural style and architectural elements of in-fill development should be compatible with the surrounding neighborhood. However, this ultra-modern architectural style will detract from the architectural character of this area and will be visible from miles away. The height and size are also incompatible with the architectural context of the street.

3-3

6. Air Quality - This project will result in emissions affecting a substantial number of people. The vacant lot sits at the top and in the heart of Adams Hill. To access the lot, you have to drive several minutes. To haul out 1,060 cubic yards of dirt will require at minimum, 100+ trucks to stand by in order to load and

**3-3** haul the dirt away and loop around Adams Hill. At a construction site, trucks do not turn off their engines, their engines remain idle. The amount of pollution will increase on this hillside during this project. We don't agree with the City's recommendation that the impact will be "Less than Significant Impact". We believe this project will increase pollution along with dust and noise pollution.

**3-4** 7. We are also concerned about hazards to neighboring residents during construction. As mentioned in the Geologic Report, "the existing slope is very steep and will require specialized excavation equipment and shoring during construction". While often dismissed by DRB as temporary, construction activity could take much longer than anticipated due to the challenges of building on steep hillsides along narrow streets.

We ask DRB to oppose the proposed development of 1248 Corona Drive.

Sincerely

Berj, Sonia & Robert Kradjian  
1221 Vista Superba Dr  
Glendale Ca, 91205

# Oppose Construction for # PDR 2004770 - 1248 Corona Drive

## Comment Letter 4

Matta Napkin <mattainc@gmail.com>

Wed 5/20/2020 12:12 PM

To: Joe, Dennis <DJoe@Glendaleca.gov>;

**CAUTION:** This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

Dear Dennis,

We are writing to voice our absolute opposition to the proposed development of 1248 Corona Drive, Glendale 91205.

For several reason's we've come to this decision:

The applicant did not significantly reduce the size, mass, and scale of the project as recommended by DRB on January 10, 2019. The total square footage size has been reduced by 10%, from 2,566 square feet to 2299 square feet. Note, the garage space is an additional 545 square feet.

4-1 The Geotechnical Investigation report prepared by AES, the geotechnical engineer, on April 1, 2019 on page 15 of the PDF confirms that many retaining walls will be required to construct the proposed project, with a maximum height of 25 feet. The cost of such a wall is at a minimum \$500,000. Does the developer have enough money to maintain the structural integrity of the hillside if more retaining walls are required to sustain the hillside? What about my neighbor's home/property who live above them? Even a shovelful of damage to their property is too much!

What about the project at 1255 Corona Drive across from this proposed project that has been under construction for over 15 years! I'm going to write this again but this time in bolded caps: **FOR OVER 15 YEARS!** The City of Glendale has been unable to enforce the building permits that requires 20% progress every 6 months. The project at 1255 Corona Drive is still incomplete after 15 years! I know it's not the same applicant, but this should be a compelling indication to you that the 1248 Corona Drive project will be dangerous, problematic, and very expensive for the developer.

The proposed project estimates approximately 1,060 cubic yards of soil. The dwelling will be constructed into the hillside to set the building's mass into the up-sloping topography. According to Chapter 30.47 of the Glendale Municipal Code that will ensure less than significant impacts to the visual character of the quality of the site and its surroundings. There are no other homes built in this stretch of land. The developer has combined three vacant lots to get around the hillside slope ratio and as a result, is proposing to build a long and narrow home unlike any other home on Adam Hill. Further, the proposed numerous retaining walls do not comply with the intent of the Hillside Design Guidelines nor is it sensitive to the surrounding properties.

Also the architectural style and architectural elements of in-fill development should be compatible with the surrounding neighborhood. It's not! This ultra-modern architectural style along with the height and size are incompatible with the architectural context of the street.

4-2 This project will result in emissions affecting a substantial number of neighbors and my family. The vacant lot sits at the top and in the heart of Adams Hill. To access the lot, you have to drive several minutes. To haul out 1,060 cubic yards of dirt will require at minimum, 100+ trucks to stand by in order to load and haul the dirt away and

5/20/2020

Oppose Construction for # PDR 2004770 - 1248 Corona Drive - Joe, Dennis

loop around Adams Hill. At a construction site, trucks do not turn off their engines, their engines remain idle. The amount of pollution will increase on this hillside during this project.

Bottom line... would you want to live amongst this over bloated construction?

We ask you to oppose the proposed development of 1248 Corona Drive.

Respectfully,

Rose Abdoo & John Matta  
1201 Corona Drive  
Glendale CA, 91205  
323 445 2880

--



# Oppose Construction for DRB Case No. PDR 2004770

## Comment Letter 5

Jonathan Weil <jonathanharryweil@gmail.com>

Wed 5/20/2020 12:14 PM

To: Agajanian, Vrej <VAgajanian@Glendaleca.gov>; Najarian, Ara <ANajarian@Glendaleca.gov>; Devine, Paula <PDevine@Glendaleca.gov>; Brotman, Daniel <dbrotman@Glendaleca.gov>; Kassakhian, Ardashes <AKassakhian@Glendaleca.gov>; Adjemian, Aram <AAadjemian@Glendaleca.gov>; Joe, Dennis <DJoe@Glendaleca.gov>;

**CAUTION:** This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

Dear Members of Glendale City Council,

I am writing to oppose the proposed development at 1248 Corona Drive, Glendale 91205.

5-1

1. The applicant did not significantly reduce the size, mass, and scale of the project as recommended by DRB on January 10, 2019. The total square footage size has been reduced by 10%, from 2,566 square feet to 2299 square feet. Note, the garage space is an additional 545 square feet.
2. The Geotechnical Investigation report prepared by AES, the geotechnical engineer, on April 1, 2019 on page 15 of the PDF confirms that many retaining walls will be required to construct the proposed project, with a maximum height of 25 feet. The cost of such a wall is at a minimum \$500,000. Does the developer have enough money to maintain the structural integrity of the hillside if more retaining walls are required to sustain the hillside?
3. A reminder there is another project (1255 Corona Drive) across from this proposed project (1248 Corona Drive) that has been under construction for over 15 years. **This project should be a compelling indication that the 1248 Corona Drive project will be dangerous, problematic, and very expensive for the developer.** The City of Glendale has been unable to enforce the building permits that requires 20% progress every 6 months. The project at 1255 Corona Drive is still incomplete after 15 years.

5-2

4. Aesthetics - The proposed project estimates approximately 1,060 cubic yards of soil. The dwelling will be constructed into the hillside to set the building's mass into the up-sloping topography. According to Chapter 30.47 of the Glendale Municipal Code that will ensure less than significant impacts to the visual character of the quality of the site and its surroundings. There are no other homes built in this stretch of land. The developer has combined three vacant lots to get around the hillside slope ratio and as a result, is proposing to build a long and narrow home unlike any other home on Adam Hill. Further, the proposed numerous retaining walls do not comply with the intent of the Hillside Design Guidelines nor is it sensitive to the surrounding properties.
5. The architectural style and architectural elements of in-fill development should be compatible with the surrounding neighborhood. However, this ultra-modern architectural style will detract from the architectural character of this area and will be visible from miles away. The height and size are also incompatible with the architectural context of the street.

5-3

6. Air Quality - This project will result in emissions affecting a substantial number of people. The vacant lot sits at the top and in the heart of Adams Hill. To access the lot, you have to drive several minutes. To haul out 1,060 cubic yards of dirt will require at minimum, 100+ trucks to stand by in order to load and haul the dirt away and loop around Adams Hill. At a construction site, trucks do not turn off their engines,

5-3  
cont. | their engines remain idle. The amount of pollution will increase on this hillside during this project. We don't agree with the City's recommendation that the impact will be "Less than Significant Impact". We believe this project will increase pollution along with dust and noise pollution.

5-4 | 7. We are also concerned about hazards to neighboring residents during construction. As mentioned in the Geologic Report, "the existing slope is very steep and will require specialized excavation equipment and shoring during construction". While often dismissed by DRB as temporary, construction activity could take much longer than anticipated due to the challenges of building on steep hillsides along narrow streets.

We ask DRB to oppose the proposed development of 1248 Corona Drive.

Sincerely

Jon Weil

1205 Corona Drive

Glendale CA 91205

## 1248 Corona Opposition - PDR 2004770

## Comment Letter 6

rondi@pacbell &lt;rondi@pacbell.net&gt;

Wed 5/20/2020 3:25 PM

To: Joe, Dennis <DJoe@Glendaleca.gov>; Design Review Board <DesignReviewBoard@Glendaleca.gov>; Agajanian, Vrej <VAgajanian@Glendaleca.gov>; Devine, Paula <PDevine@Glendaleca.gov>; Najarian, Ara <ANajarian@Glendaleca.gov>; Brotman, Daniel <dbrotman@Glendaleca.gov>; Kassakhian, Ardashes <AKassakhian@Glendaleca.gov>;

Cc: Stephen Meek <slmtrimins@gmail.com>; Patty Silversher <psilversher@gmail.com>; Mary Baldwin <baldwin-m@sbcglobal.net>; Patrice Aaires <galactia@sbcglobal.net>; Grant Michals <grant@michals.com>; Ute Baum <gartenart@aol.com>; Andy Allison <drew\_allison@yahoo.com>;

 2 attachments

AHNA Opposition 1248 Corona 5-19-2020.pdf; ATT00001.htm;

**CAUTION: This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.**

Dear Mayor Agajanian, City Council Members, Design Review Board Members, and Staff:

Please find attached the Adams Hill Neighborhood Association's opposition letter to the proposed project on the 70% slope located at 1248 Corona Drive. **This property is on the same block as the infamous 1255 Corona project that has been under construction for over 13 years.** Neither Adams Hill's residents nor the rest of Glendale need another situation like that.

This project reminds me of how important it is to require that sufficiently detailed grading plans and geotechnical studies be submitted with the project applications for projects on steep slopes that need substantial grading.

As you know, the Planning Process Streamlining effort of 2013 shifted the burden of evaluating hillside homes with over 50% slopes or requiring over 1,500 cubic yards of grading from a Planning Hearing via a CUP process to the DRB commission. It therefore seems reasonable that the same technical submittals should be available to DRB that the CUP hearing would have reviewed. These grading plans, geotechnical reports, etc. would help the DRB evaluate the merits of the project at the first hearing and to provide transparency to the public as to the likelihood that the project would pose a risk to other properties.

It was also apparent from the two previous hearings on this project and other hearings that there is confusion as to who is responsible for evaluating these technical details. While on the streamlining committee I objected to this transfer of responsibility because the DRB members might not have the necessary expertise to make such evaluations. Currently we are fortunate to have multiple competent engineers on DRB, but the fact remains that they (and the public) are unsure of their mandate to review what the CUP process would have studied. This responsibility should be clarified for both DRB and the public.

If grading plans and adequate geotechnical studies were required, the 1248 Corona project would not have dragged on for three DRB sessions and the residents whose homes would be at risk from this project would not have had to endure the stress of seeing their lives and property put at risk over and over for the past few years.

The same could be said for the three Marion Drive projects that went through DRB twice without geotechnical surveys; it wasn't until the projects were approved that the soil study was done and the projects were determined by the applicant to be infeasible.

I humbly ask that the Planning process be revised to require both grading plans and adequate geotechnical engineering studies for hillside developments on slopes greater than 50% and requiring grading of 1500 cu. yards or more. Doing so will save much time and effort for Planning Staff, DRB Commissioners and concerned residents, not to mention the costs to the City and applicant. It will also reduce the amount of stress on the neighboring properties that could be compromised by these high impact projects.

Thank you and best regards,

Rondi Werner, Assoc. AIA, CSI, CCCA, CDT

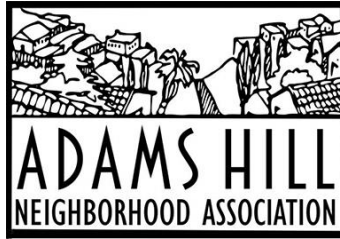


5/20/2020

1248 Corona Opposition - PDR 2004770 - Joe, Dennis

Vice President, Adams Hill Neighborhood Association

Mobile: 818-415-4832



May 18, 2020

Dennis Joe, Planner and Design Review Commission/Board Members  
City of Glendale, Community Development Department  
633 East Broadway, Glendale, CA 91206

Dear Dennis Joe and Design Review Commission/Board Members,

6-1

The Adams Hill Neighborhood Association remains opposed to the proposed development at 1248 Corona Drive. We are very concerned that it could have **irreversible and substantial negative impacts in regards to safety, property values, and compatibility**. We do not believe that the proposed mitigation measures or geotechnical studies are adequate to protect the lives and property of the families immediately uphill and downhill from the site.

6-2

**Although the design has been submitted three times, the architectural style remains very contemporary in stark contrast to the historic charm that characterizes Adams Hill.** Glendale Municipal Code Chapter 30.11.040 requires commissions to consider the Hillside Design Guidelines and to consider the following:

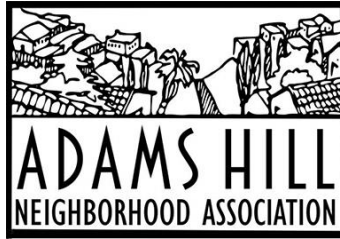
- “Development shall be compatible with the surrounding neighborhood in terms of size, scale, bulk/mass, roofline orientation, setbacks, and site layout.”
- “The architectural style and architectural elements of in-fill development shall be compatible with the surrounding neighborhood.”

The site placement, massing, and modernist architectural style will detract from the architectural character and historic charm of Adams Hill and set a bad precedent for the City.

In addition, the City of Glendale’s Comprehensive Design Guidelines require:

- “When building on the hillsides in Glendale, it is important to modify the landform as little as possible when building a new structure or addition.”
- “Grading and construction of retaining walls should be minimized. It is preferable to avoid retaining walls, especially those in public view . . .”
- “Use of large retaining walls to flatten portions of the site is strongly discouraged.” 🍌

Proposing massive retaining walls and removing around 1,000 cubic yards of bedrock does not comply with the intent of the Hillside Design Guidelines nor is it sensitive to the surrounding properties. Extensive jackhammering would be required and would most likely damage the neighboring homes.



The issue of safety remains a major concern. The preliminary Soils Engineering report by Geomax Engineering dated 9/25/16 indicated that ***“Excavation into the steep hillside will undermine support of the hillside and the homes above.”*** We also share Commissioner Simonian’s concern as expressed during the January 10, 2019 hearing when he pondered: *“how is this building going to really nestle itself into this very fragile, very complicated scenario where you have homes above it?”*

The Geotechnical Investigation by AES dated 4/1/19 seems inadequate based on:

- 6-3      • The AES report does not discuss the adjacent residences and **is silent as to potential impacts on these homes and the occupants.** This omission reflects a shocking disregard for the safety of the neighboring properties and residents.
- 6-4      • The test pits were only 2 ft. to 5 ft. deep, yet the grading depth would exceed 20 ft. according to the grading plan. The borings seem too shallow to derive the necessary geologic data.
- 6-5      • In their closing, AES states that its recommendations are based on exploration “window” borings and excavations. And that “Some variations of subsurface conditions are common between “windows” and major variations are possible.” This suggests that unknown conditions could exist that would make the project unbuildable but would only be known after the irreversible damage to the hillside (and possibly other properties) has been done.

Construction activity could take much longer and be more costly than anticipated due to the challenges and expense of building on steep hillsides with specialized equipment on narrow streets. **Another home on this same block (1255 Corona) has been under construction for over 13 years** – a compelling indication that hillside projects on this slope are especially problematic and perhaps impossible to complete. This never-ending project also suggests that **the City has been unable (or unwilling?) to enforce the terms of its building permits.**

We wish the applicant no ill will, but his dream home should not be our community’s nightmare. Please consider our neighborhood and our municipal code and return this project for redesign.

Sincerely,

*Rondi Werner*

Rondi Werner, Assoc. AIA, CSI, CCCA, CDT  
Vice President, Adams Hill Neighborhood Association  
PO Box 250232, Glendale, CA 91225

cc:      Glendale City Council, City Attorney, Adams Hill Board of Directors, Concerned Residents

## DRB Case No. PDR 2004770 Oppose Mitigated Negative Declaration

## Comment Letter 7

Courtney Saavedra &lt;cdirollsaavedra@gmail.com&gt;

Wed 5/20/2020 8:20 PM

To: Joe, Dennis <DJoe@Glendaleca.gov>; Agajanian, Vrej <VAgajanian@Glendaleca.gov>; Najarian, Ara <ANajarian@Glendaleca.gov>; Devine, Paula <PDevine@Glendaleca.gov>; Kassakhian, Ardashes <AKassakhian@Glendaleca.gov>; Brotman, Daniel <dbrotman@Glendaleca.gov>; Design Review Board <DesignReviewBoard@Glendaleca.gov>; Sophia Estrada <estradahome@gmail.com>;

**CAUTION:** This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

from: Courtney Saavedra <[cdirollsaavedra@gmail.com](mailto:cdirollsaavedra@gmail.com)>  
[djoe@glendaleca.gov](mailto:djoe@glendaleca.gov),  
[amalekian@glendaleca.gov](mailto:amalekian@glendaleca.gov),  
to: [aarzoumanian@glendaleca.gov](mailto:aarzoumanian@glendaleca.gov),  
[sbenlian@glendaleca.gov](mailto:sbenlian@glendaleca.gov),  
[asimonian@glendaleca.gov](mailto:asimonian@glendaleca.gov),  
[vzemaitaitis@glendaleca.gov](mailto:vzemaitaitis@glendaleca.gov),  
cc: [estradahome@gmail.com](mailto:estradahome@gmail.com)  
date: Jan 6, 2019, 9:34 PM  
subject: PROPOSED NEW CONSTRUCTION AT 1248 CORONA DRIVE  
mailed-by: [gmail.com](mailto:gmail.com)

Design Review Board Members,

7-1 As the owner of a home on Corona Drive, I am writing to inform you of my concern and opposition to the proposed construction project on my block, 1248 Corona Drive. I apologize that I am unable to attend the hearing in person.

As a fellow resident on the hillside, I am well aware of the dangers of increased construction, hillside erosion, and density of population on Adams Hill's narrow roads. With the majority of our homes, including my own, built in the 1960's, they are not adequately supported should their foundations be compromised by the significant removal of hillside, bedrock and soil during construction below them.

Prior to purchasing in this neighborhood in 2007, my husband and I lived one mile away in Glassell Park on Scandia Way, similarly populated with hillside homes. A couple of years prior to our move, the city experienced heavy rains, during which several homes slid and were yellow or red tagged due to the erosion.

I believe that, knowing what a critical issue hillside soil erosion is in Los Angeles and still moving forward toward approving the drastic removal of soil below existing family homes is irresponsible. I would never want to see our neighbors and their children displaced in an emergency due to a situation that could have been avoided had we voiced our protest.

7-2 With the increased housing density on the hill, the ability of first responders to access the top in need of emergency has been consistently compromised. Additional traffic stresses the overly taxed road up or down, since there is only meaningful traffic in one direction at a time.

I would appreciate your support in denying this construction request in our area and thank you for reading my thoughts as added to the information my neighbors are working to provide, as well as that below, so that you can make the right decision.

The surrounding neighbors oppose this new project for the following reasons:

7-3 Project will pose dangerous conditions to the three homes above the proposed dwelling unless several retaining walls that deface one of the last existing hillsides are placed at the time of drilling and excavation.

Although the architectural plans are modern with clean lines, the face of the home will be massive compared to the homes in the neighboring streets that are discretely tucked into the hillside. Because of the steepness of the hillside, the developer is forced to create a long and narrow home that will appear massive as you drive down Corona Street.

Excavation would require the removal of approximately 1100 cubic yards of soil. That's about 30 big trucks hauling away 550,000 pounds of dirt.

Although the proposed home itself meets the 2300 sq ft request, the 545 sq ft garage exceeds this stipulation.

The project does not fall within the guidelines of the "Transitional Slope" necessary, using a minimum of a 25ft radius curve.

7-4 Proposed Mitigated Negative Declaration document states under the section F. Geology and Soils #IV "at limited portions of the site at the lower northwest corner of parcel have been identified by the City's Safety Element to be located within an area susceptible to seismic induced landslides." **Can the City of Glendale guarantee that the grading will not undermine the support of the homes above the proposed project?**

7-5 The proposed project IS LOCATED on a geological soil that is unstable, OR that would become unstable as a result of the project, and potentially result in an on-site landslide 🌋

My home was built with an easement through the property below for a sewer pipe, and although against code, construction was performed atop the pipe which continues to create breakages. The city has been of no assistance in addressing this, despite multiple requests, so I must stand up for my neighbors, knowing the probability that issues they may encounter will be very difficult to rectify, due to the unfortunate lack of interest or responsiveness.

Courtney Saavedra

## PDR2004700 1248 Corona 91205

## Comment Letter 8

Mary Baldwin <baldwin-m@sbcglobal.net>

Wed 5/20/2020 8:56 PM

To: Agajanian, Vrej <VAgajanian@Glendaleca.gov>; Devine, Paula <PDevine@Glendaleca.gov>; Brotman, Daniel <dbrotman@Glendaleca.gov>; Kassakhian, Ardashes <AKassakhian@Glendaleca.gov>; Najarian, Ara <ANajarian@Glendaleca.gov>; Joe, Dennis <DJoe@Glendaleca.gov>;

Cc: Adjemian, Aram <AAjemian@Glendaleca.gov>; Sophia Estrada <estradahome@gmail.com>;

**CAUTION:** This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

Dear City Council,

8-1 | I am writing to oppose the project at 1248 Corona Dr. Design Review has returned this project twice for modification. Their main objection to this house besides the size is the placement on the hillside. Unfortunately this is impossible to change due to the configuration of the lots hobbled together to form one buildable lot. Design Review has acknowledged this placement creates a lone middle tier on the hill that is awkward and inappropriate. Aesthetically, this placement does not maintain the lines of the rest of the homes on that street. Due to the stringing together of tiny lots that were all previously unbuildable, this project has no chance of rectifying the initial problem. It was denied for the problematic placement and nothing has changed. I urge you to deny this very unfortunate house.

8-2 | I am also concerned about the amount of soil to be removed. Anecdotally, I witnessed three homes built in Chevy Chase Canyon that underestimated the amount of soil and conditions. One of these homes on Gladys Drive cost the City of Glendale an enormous amount of money due to a lawsuit. The other two homes needed additional retaining walls exacerbating the expense and length of time to build these homes. One home located in the 2300 block and the other in the 2500 block of Chevy Chase. Please do not let this project repeat those errors. Thank you for your attention

Mary Baldwin  
1131 Oberlin Dr.  
Glendale Ca 91205

# Opposition to proposed structure at 1248 Corona Drive

Crystal Hunter <crystal.hunter111@gmail.com>

Comment Letter 9

Thu 5/21/2020 12:48 PM

To: Joe, Dennis <DJoe@Glendaleca.gov>;

Cc: Agajanian, Vrej <VAgajanian@Glendaleca.gov>; Najarian, Ara <ANajarian@Glendaleca.gov>; Kassakhian, Ardashes <AKassakhian@Glendaleca.gov>; Brotman, Daniel <dbrotman@Glendaleca.gov>; Adjemian, Aram <AAjemian@Glendaleca.gov>;

**CAUTION:** This email was delivered from the Internet. Do not click links, open attachments, or reply if you are unsure as to the sender.

Dear Dennis,

I am writing to oppose the proposed development at 1248 Corona Drive, Glendale 91205. In addition to the below 7 key points, I would like to add:

- 9-1 • The #1 primary condition to be met has NOT. The applicant was asked to "significantly" reduce the size/scope/scale of this project. As with the previous revision, the applicant clearly is not taking the DRB's instructions seriously. The current reduction (net 5.6%) is far from significant. If the applicant fails to comply at this point in the process, it seems reasonable to believe he will not comply with future requirements, which ultimately may cause safety issues for the neighborhood.
- 9-2 • The length of the proposed house is disproportionately larger than ANY house in the surrounding areas. Coming in at approximate 83 feet, this house will have an overwhelming negative effect from Corona Drive, as well as for the neighbors above on Vista Superba. It is approximately 40% longer than any surrounding structure. TOO BIG!
- 9-2 • The absurd (for the proposed lot) length of this structure clearly suggests that the applicant is attempting to shove a too-large house into a hillside, whose depth cannot support it.
- 9-2 • The amount of earth to be removed from the hillside causes fear for all residents located above, on Vista Superba. We fear for the safety and integrity of our homes, and the lives they contain.
- 9-2 • The lot being proposed to be built on, is a portion of the handful of lots left in Adams Hill that are full of vegetation, plant life, animal life, and visual beauty. This is the last of the unbuilt area in Adams Hill, and it would be a shame to fill this space. We deserve to have some beauty on The Hill!
- 9-2 • Lastly, the residents of Adams Hill are adamantly opposed to the proposed structure, and the refusal of the builder to honor the conditions of our city's Design Review Board. This kind of behavior does not suggest a good fit, and should not be allowed in our neighbor-friendly, cooperative neighborhood of Adams Hill.

- 9-1 1. The applicant did not significantly reduce the size, mass, and scale of the project as recommended by DRB on January 10, 2019. The total square footage size has been reduced by 10%, from 2,566 square feet to 2299 square feet. Note, the garage space is an additional 545 square feet.
- 9-1 2. The Geotechnical Investigation report prepared by AES, the geotechnical engineer, on April 1, 2019 on page 15 of the PDF confirms that many retaining walls will be required to construct the proposed project, with a maximum height of 25 feet. The cost of such a wall is at a minimum \$500,000. Does the developer have enough money to maintain the structural integrity of the hillside if more retaining walls are required to sustain the hillside?
- 9-1 3. A reminder there is another project (1255 Corona Drive) across from this proposed project (1248 Corona Drive) that has been under construction for over 15 years. **This project should be a compelling indication that the 1248 Corona Drive project will be dangerous, problematic, and very expensive for the developer.** The City of Glendale has been unable to enforce the building permits that requires 20% progress every 6 months. The project at 1255 Corona Drive is still incomplete after 15 years.
- 9-3 4. Aesthetics - The proposed project estimates approximately 1,060 cubic yards of soil. The dwelling will be constructed into the hillside to set the building's mass into the up-sloping topography. According to Chapter 30.47 of the Glendale Municipal Code that will ensure less than significant impacts to the visual character of the quality of the site and its surroundings. There are no other homes built in this stretch of land. The developer has combined three vacant lots to get around the hillside slope ratio and

9-3

as a result, is proposing to build a long and narrow home unlike any other home on Adam Hill. Further, the proposed numerous retaining walls do not comply with the intent of the Hillside Design Guidelines nor is it sensitive to the surrounding properties.

5. The architectural style and architectural elements of in-fill development should be compatible with the surrounding neighborhood. However, this ultra-modern architectural style will detract from the architectural character of this area and will be visible from miles away. The height and size are also incompatible with the architectural context of the street.

9-4

6. Air Quality - This project will result in emissions affecting a substantial number of people. The vacant lot sits at the top and in the heart of Adams Hill. To access the lot, you have to drive several minutes. To haul out 1,060 cubic yards of dirt will require at minimum, 100+ trucks to stand by in order to load and haul the dirt away and loop around Adams Hill. At a construction site, trucks do not turn off their engines, their engines remain idle. The amount of pollution will increase on this hillside during this project. We don't agree with the City's recommendation that the impact will be "Less than Significant Impact". We believe this project will increase pollution along with dust and noise pollution.

7. We are also concerned about hazards to neighboring residents during construction. As mentioned in the Geologic Report, "the existing slope is very steep and will require specialized excavation equipment and shoring during construction". While often dismissed by DRB as temporary, construction activity could take much longer than anticipated due to the challenges of building on steep hillsides along narrow streets.

We ask DRB to oppose the proposed development of 1248 Corona Drive.

Sincerely,

Crystal and Jeffrey Hunter

1249 Vista Superba Street, Glendale, CA 91205

9-3





## PROPOSED MITIGATED NEGATIVE DECLARATION

New Single-Family Residence  
1248 Corona Drive

The following Mitigated Negative Declaration has been prepared in accordance with the California Environmental Quality Act of 1970 as amended, the State Guidelines, and the Environmental Guidelines and Procedures of the City of Glendale.			
<b>Project Title/Common Name:</b>	New Single-Family Residence		
<b>Project Location:</b>	1248 Corona Drive, Glendale, Los Angeles County		
<b>Project Description:</b>	To construct a new two-story, 2,299 square-foot single-family dwelling with an attached 545 square-foot two-car garage on a 8,889 square-foot lot, zoned R1R (FAR District III) with an average current slope of approximately 70%. As proposed, the development will involve a total export of 1,058 cubic yards of soil. The proposed single-family dwelling will require approval from the Design Review Board.		
<b>Project Type:</b>	<input checked="checked" type="checkbox"/>	Private Project	<input type="checkbox"/> Public Project
<b>Project Applicant:</b>	Eduardo J. Carillo 8207 Brookgreen Road Downey, CA 90240		
<b>Findings:</b>	The Director of the Community Development, on <b>April 30, 2020</b> , after considering an Initial Study prepared by the Planning Division, found that the above referenced project as mitigated would not have a significant effect on the environment and instructed that a Mitigated Negative Declaration be prepared.		
<b>Mitigation Measures:</b>	No mitigation measures are required.		
<b>Attachments:</b>	See attached Mitigation Monitoring and Reporting Program (MMRP)		
<b>Contact Person:</b>	Dennis Joe, Planner City of Glendale Community Development Department 633 East Broadway, Room 103 Glendale, CA 91206-4386 Tel: (818) 548-8157 Fax: (818) 240-0392		

### MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

The following mitigation measure shall apply to the proposed single-family residence located at 1248 Corona Drive to reduce identified impacts to less than significant levels.

**GEO -1** All earth work, including at a minimum, site preparation, grading and compaction of fill shall be conducted under continuous observation and testing by a Registered Professional Engineer and/or Certified Engineering Geologist.

- An Engineering Geologist shall inspect the cut slopes at a point where five feet of bedrock is exposed to confirm the results of the geotechnical report's findings.
- Prior to placing any backfilling, a Soils Engineer and/or Engineering Geologist shall observe the excavation bottoms. All backfill materials shall be placed under engineering observation and in accordance to the guidelines of geotechnical report.
- Excavation activities and all structural foundations (footing and piles) shall be observed and approved by a Registered Professional Engineer and/or Certified Engineering Geologist before the reinforcing is placed.
- All shoring piles shall be inspected by a qualified professional, such as a Grading Deputy.

<b>Monitoring Action:</b>	Site Inspection
<b>Timing:</b>	During all site preparation and construction activities
<b>Responsibility:</b>	Registered Professional Engineer and/or Certified Engineering Geologist

**GEO -2** All slopes shall be covered with erosion resistant vegetation that are low water consumptive, fire retardant and deep rooted ground cover with proper irrigation to enhance soil cover stability.

<b>Monitoring Action:</b>	Plan Review; Site Inspection
<b>Timing:</b>	Prior to issuance of development permits (plan review) Prior to final approval of building permits (site inspection)
<b>Responsibility:</b>	Director of Community Development

#### Agreement to Proposed Mitigation Measures and Mitigation Monitoring Program

I/WE THE UNDERSIGNED PROJECT APPLICANT (S), HEREBY AGREE TO MODIFICATION OF THE PROJECT TO CONFORM WITH THE IMPACT MITIGATION MEASURES AND THE MITIGATION MONITORING PROGRAM SPECIFIED HEREIN REGARDLESS OF CHANGE OF OWNERSHIP. IF I/WE DISAGREE WITH ANY RECOMMENDED MITIGATION MEASURES OR ALL OR PART OF THE MITIGATION MONITORING PROGRAM, IN LIEU OF MY/OUR SIGNATURE HEREON, I/WE MAY REQUEST RECONSIDERATION OF THE MATTER UPON SUBMITTAL OF THE APPLICABLE FEE AND DOCUMENTATION IN SUPPORT OF MY/OUR POSITION ON SAID MITIGATION MEASURES AND/OR MITIGATION MONITORING PROGRAM. (THE ENVIRONMENTAL AND PLANNING BOARD WILL RECONSIDER THE ISSUES AND TAKE ACTION AS DEEMED APPROPRIATE.)

Dated: \_\_\_\_\_

\_\_\_\_\_  
Signature(s) of the Project Applicant(s)

Dated: \_\_\_\_\_

\_\_\_\_\_



## INITIAL STUDY CHECKLIST

New Single-Family Residence  
1248 Corona Drive

<b>1.</b>	<b>Project Title:</b> New Single-Family Residence
<b>2.</b>	<b>Lead Agency Name and Address:</b> City of Glendale Community Development Department Planning Division 633 East Broadway, Room 103 Glendale, CA 91206
<b>3.</b>	<b>Contact Person and Phone Number:</b> Dennis Joe, Planner Tel: (818) 937-8157 Fax: (818) 240-0392
<b>4.</b>	<b>Project Location:</b> 1248 Corona Drive, Glendale, Los Angeles County
<b>5.</b>	<b>Project Sponsor's Name and Address:</b> Eduardo J. Carrillo 8207 Brookgreen Road Downey, CA 90240 Tel: (562) 708-3586
<b>6.</b>	<b>General Plan Designation:</b> Low Density Residential
<b>7.</b>	<b>Zoning:</b> R1R (Restricted Residential) Zone, Floor Area District III
<b>8.</b>	<b>Description of the Project:</b> To construct a new two-story, 2,299 square-foot single-family dwelling with an attached 545 square-foot two-car garage on an 8,889 square-foot lot, zoned R1R (FAR District III) with an average current slope of approximately 70%. As proposed, the development will involve a total export of 1,058 cubic yards of soil. The proposed single-family dwelling will require approval from the Design Review Board.
<b>9.</b>	<b>Surrounding Land Uses and Setting:</b> <u>North:</u> R1R Restricted Residential, Floor Area District III/ Vacant <u>South:</u> R1R Restricted Residential, Floor Area District III/ Vacant <u>East:</u> R1R Restricted Residential, Floor Area District III/ Single-Family Residential <u>West:</u> R1R Restricted Residential, Floor Area District III/ Single-Family Residential
<b>10.</b>	<b>Other public agencies whose approval is required (e.g., permits, financing approval or participation agreement).</b> None.

**11. Environmental Factors Potentially Affected:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Aesthetics                  | <input type="checkbox"/> Agriculture and Forest Resources | <input type="checkbox"/> Air Quality                        |
| <input type="checkbox"/> Biological Resources        | <input type="checkbox"/> Cultural Resources               | <input type="checkbox"/> Energy                             |
| <input type="checkbox"/> Geology / Soils             | <input type="checkbox"/> Greenhouse Gas Emissions         | <input type="checkbox"/> Hazards / Hazardous Materials      |
| <input type="checkbox"/> Hydrology / Water Quality   | <input type="checkbox"/> Land Use / Planning              | <input type="checkbox"/> Mineral Resources                  |
| <input type="checkbox"/> Noise                       | <input type="checkbox"/> Population / Housing             | <input type="checkbox"/> Public Services                    |
| <input type="checkbox"/> Recreation                  | <input type="checkbox"/> Transportation                   | <input type="checkbox"/> Tribal Cultural Resources          |
| <input type="checkbox"/> Utilities / Service Systems | <input type="checkbox"/> Wildfire                         | <input type="checkbox"/> Mandatory Findings of Significance |

**LEAD AGENCY DETERMINATION:**

On the basis of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Prepared by:

*Dennis Joe, Planner*

*4-30-2020*

Signature of Director of Community Development or his or her designee authorizing the release of environmental document for public review and comment.

*[Signature]*

Director of Community Development:

Date:

*4-30-2020*

**A. AESTHETICS**

Except as provided in Public Resources Code Section 21099, would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Have a substantial adverse effect on a scenic vista?				X
2. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				X
3. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			X	
4. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			X	

**1) Have a substantial adverse effect on a scenic vista?**

**No Impact.** No scenic vistas, as identified in the Open Space and Conservation Element (January, 1993), exist within, or within view of the Project site. Therefore, no impacts to scenic vistas would result from project implementation.

**Mitigation Measures:** No mitigation measures are required.

**2) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?**

**No Impact.** No state scenic highway is located adjacent to or within view of the Project site<sup>1</sup>. No impacts to scenic resources within a State scenic highway would occur.

**Mitigation Measures:** No mitigation measures are required.

**3) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?**

**Less Than Significant Impact.** The Project site is located within the Adams Hill neighborhood in the City of Glendale. Surrounding the Project site are R1R zoned properties with single-family residences to the east and west, and vacant lots to the north and south. The subject property is a vacant lot with an up-sloping topography that steeply ascends upward beginning from the west property line along Corona Drive towards the east interior property line. The surface of the site is mostly bare, with patches of dry wild grass, weeds, and small trees and bushes scattered throughout the property. There are no protected indigenous trees species on or within twenty feet of the site.

The proposed project is to construct a new two-story, 2,300 square-foot single-family dwelling with an attached 545 square-foot two-car garage. A total of approximately 1,060 cubic yards of soil will be graded and exported offsite. The two-story dwelling will be constructed into the hillside to set the building's mass into the upsloping topography allowing the dwelling's roofline follow the contour of the slope and be more sensitive to the visual character of hillside consistent with the City's Hillside Design Guidelines.

The proposed single-family dwelling will be constructed with materials, such as smooth stucco and horizontal wood strip siding to complement the natural setting of the site, as well as the surrounding neighborhood. The project will require approval from the Design Review Board pursuant to the

<sup>1</sup> <https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways>

requirements established in Chapter 30.47 of the Glendale Municipal Code that will ensure less than significant impacts to the visual character or quality of the site and its surroundings.

**Mitigation Measures:** No mitigation measures are required.

**4) Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area?**

**Less Than Significant Impact.** Day and nighttime lighting for the project would increase slightly as a result of the proposed project, but would be similar to the existing single-family uses within the project vicinity. Because the surrounding area is already developed with single-family dwellings, less than significant impacts associated with lighting would occur.

**Mitigation Measures:** No mitigation measures are required.

**B. AGRICULTURE AND FOREST RESOURCES**

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997, as updated) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X
2. Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X
3. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined in Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				X
4. Result in the loss of forest land or conversion of forest land to non-forest use?				X
5. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				X

**1) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?**

**No Impact.** There is no prime farmland, unique farmland, or farmland of statewide importance within or adjacent to the proposed Project site and no agricultural activities take place on the Project site<sup>2</sup>. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

<sup>2</sup> <https://www.conservation.ca.gov/dlrp/fmmp/Pages/LosAngeles.aspx>

**2) Conflict with existing zoning for agricultural use, or a Williamson Act contract?**

**No Impact.** No portion of the Project site is proposed to include agricultural zoning designations or uses, nor do any such uses exist within the City under the current General Plan and zoning. There are no Williamson Act contracts in effect for the Project site or surrounding vicinity. No conflicts with existing zoning for agricultural use or Williamson Act contracts would result<sup>3</sup>. No impact would occur.

**Mitigation Measures:** No mitigation measures are required

**3) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)) or timberland (as defined in Public Resources Code section 4526)?**

**No Impact.** There is no existing zoning of forest land or timberland in the City. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**4) Result in the loss of forest land or conversion of forest land to non-forest use?**

**No Impact.** There is no forestland within the City of Glendale. No forestland would be converted to non-forest use under the proposed project. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**5) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of farmland to non-agricultural use or conversion of forest land to non-forest use?**

**No Impact.** There is no farmland or forestland in the vicinity of or on the Project site. No farmland would be converted to non-agricultural use and no forestland would be converted to non-forest use under the proposed project. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**C. AIR QUALITY**

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied on to make the following determinations.

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Conflict with or obstruct implementation of the applicable air quality plan?				X
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			X	
3. Expose sensitive receptors to substantial pollutant concentrations?			X	
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			X	

**1) Conflict with or obstruct implementation of the applicable air quality plan?**

**No Impact.** The Project site is located within the City of Glendale, which is part of the South Coast Air Basin (Basin) and is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The SCAQMD is the agency responsible for preparing the Air Quality Management Plan (AQMP) for the Basin. Since 1979, a number of AQMPs have been prepared. The most recent

<sup>3</sup> <https://www.conservation.ca.gov/dlrp/wa>

comprehensive plan fully approved by the U.S. Environmental Protection Agency (U.S. EPA) is the 2016 Air Quality Management Plan (AQMP), which includes a variety of strategies and control measures.

The AQMP was prepared to accommodate growth, to reduce the high levels of pollutants within the areas under the jurisdiction of SCAQMD, to return clean air to the region, and to minimize the impact on the economy. Projects that are considered to be consistent with the AQMP would not interfere with attainment because this growth is included in the projections utilized in the formulation of the AQMP. Therefore, projects, uses, and activities that are consistent with the applicable assumption used in the development of the AQMP would not jeopardize attainment of the air quality levels identified in the AQMP, even if they exceed the SCAQMD's recommended daily emissions thresholds.

Projects that are consistent with the projections of employment and population forecasts identified in the Growth Management Chapter of the Regional Comprehensive Plan and Guide (RCPG) are considered consistent with the AQMP growth projections, since the Growth Management Chapter forms the basis of the land use and transportation control portions of the AQMP.

Population growth associated with the Project is included in the Southern California Associations of Government (SCAG) projects for growth in the City of Glendale. The Project does not result in population and housing growth that would cause growth in Glendale to exceed the SCAG forecast, because the Project is consistent with the General Plan and therefore is included in SCAG's growth projections. Consequently, implementation of the Project would be consistent with AQMP attainment forecasts and with applicable air quality plans. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**2) *Violate any air quality standard or contribute substantially to an existing or projected air quality violation?***

**Less Than Significant Impact.** The proposed project is to construct a new two-story, 2,300 square-foot single-family dwelling with an attached 545 square-foot two-car garage. A total of approximately 1,060 cubic yards of soil will be graded and exported offsite. The California Emissions Estimator Model (CalEEMod version 2016.3.2) was used to estimate air quality impacts during the construction and operation stages of the project. Results from the model indicate that the proposed project would not exceed thresholds for construction, area, or operational impacts. A summary of the results are attached. No significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**3) *Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?***

**Less Than Significant Impact.** Please refer to Response C-1 and C-2 above.

**Mitigation Measures:** No mitigation measures are required.

**4) *Expose sensitive receptors to substantial pollutant concentrations?***

**Less than Significant Impact:** Sensitive receptors are located near the Project site that includes single-family dwellings located immediately west and east. The applicant would be required to adhere to South Coast Air Quality Management District (SCAQMD) Rule 403 - Fugitive Dust, which would further reduce the impact related to construction-related impacts. As a result, the project would not expose sensitive receptors to a substantial pollutant concentration or create emissions that exceed known thresholds. Therefore, impacts are considered less than significant.

**Mitigation Measures:** No mitigation measures are required.

**5) *Create objectionable odors affecting a substantial number of people?***



**Less Than Significant Impact.** Construction activity associated with the project may generate detectable odors from equipment exhaust. However, any detectable odors or equipment exhaust would be associated with initial construction and would be considered transitory and/or short-term. Therefore, less than significant construction related odor impacts are anticipated to occur from the project.

**Mitigation Measures:** No mitigation measures are required.

#### D. BIOLOGICAL RESOURCES

<i>Would the project:</i>	<b>Potentially Significant Impact</b>	<b>Less than Significant Impact with Mitigation Incorporated</b>	<b>Less than Significant Impact</b>	<b>No Impact</b>
1. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				X
2. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				X
3. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
4. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				X
5. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X
6. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				X

- 1) ***Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?***

**No Impact.** The Adams Hill area is not identified as a Significant Ecological area in the Open Space and Conservation Element. The proposal to construct a new single-family residence would not result in any adverse effect on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

- 2) ***Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?***

**No Impact.** No riparian habitat and/or other sensitive natural communities are present within the vicinity, and no such areas are present onsite or adjacent to the Project site. No impacts would occur..

**Mitigation Measures:** No mitigation measures are required.

- 3) ***Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?***

**No Impact.** The Project site is neither in proximity to, nor does it contain, a wetland habitat. Therefore, the project implementation would not have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the Clean Water Act (CWA), through direct removal filling, hydrological interruption, or other means. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

- 4) ***Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?***

**No Impact.** The project site located in a developed area where there are constraints to wildlife movement under the existing condition. Existing development in the area limits wildlife movement. Consequently, wildlife movement on the project site is limited to only local movement of wildlife within the immediate vicinity. The proposal to construct a new single-family residence would not result in any significant barrier to wildlife moving through the area. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

- 5) ***Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?***

**No Impact.** The Glendale Municipal Code, Section 12.44 protects six different native or "indigenous" species of trees that include Coast Live Oak, Valley Oak, Mesa Oak, Scrub Oak, California Sycamore, and California Bay. There are no protected trees on or within 20-feet of the site. No impacts would occur.

**Mitigation Measures:** No Mitigation measures are required.

- 6) ***Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?***

**No Impact.** No adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved habitat conservation plan has been adopted to include the Project site. Therefore, the Project would not conflict with any such plans. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

## E. CULTURAL RESOURCES

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?				X
2. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?			X	
3. Disturb any human remains, including those interred outside of formal cemeteries?			X	

- 1) ***Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?***

**No Impact.** The Project site is undeveloped and vacant. According to City records, the site was never developed with any buildings or structures. The Project site does not meet the criteria for

listing on any National, State, or Local Register for Historic Resources, and it is not considered a historic resource under the California Environmental Quality Act (CEQA). No impacts to a historical resource would occur.

**Mitigation Measures:** No mitigation measures are required.

**2) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?**

**Less than Significant Impact.** Prehistoric and historic archaeological sites are not known to exist within the project area. The City's Open Space and Conservation Element indicate that no significant archaeological sites have been identified in this area of Glendale. Nonetheless, construction activities associated with project implementation would have the potential to unearthing undocumented resources. In the event that archaeological resources are unearthed during project subsurface activities, all earth-disturbing work within a 100-meter radius must be temporarily suspended or redirected until an archaeologist has evaluated the nature and significance of the find. After the find has been appropriately mitigated, work in the area may resume. With implementation of this standard requirement, no significant impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**3) Disturb any human remains, including those interred outside of formal cemeteries?**

**Less than Significant Impact.** Notice was given to the Fernandeno Tataviam of Mission Indians and Soboba Band of Luiseno Indians, as required by AB 52 and codified in Public Resources Code Section 21080.3.1 et seq. Consultation was not requested by either tribe within the 30-days of the notice. No known burial sites exist within the vicinity of the Project site or surrounding area. However, impacts would be potentially significant if human remains were to be encountered during excavation and grading activities. State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County coroner has made the necessary findings as to origin and disposition, pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission (NAHC). The NAHC will then contact the most likely descendant of the deceased Native American, who will then serve as a consultant on how to proceed with the remains (i.e., avoid removal or reburial). With implementation of this standard requirement, no significant impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**F. ENERGY**

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
2. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

**1) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?**

**Less than Significant Impact.** Construction of the Project would require consumption of nonrenewable energy resources, primarily in the form of fossil fuels (including fuel oil, natural gas, and gasoline) for automobiles and construction equipment, and other resources including, but not

limited to, lumber, sand, gravel, asphalt, metals, and water. Construction would include energy used by construction equipment and other activities at the Project site (e.g., building demolition, excavation, paving), in addition to the energy used to manufacture the equipment, materials, and supplies and transport them to the Project site. Energy for maintenance activities would include that for day-to-day upkeep of equipment and systems, as well as energy embedded in any replacement equipment, materials, and supplies. It is expected that nonrenewable energy resources would be used efficiently during construction and maintenance activities given the financial implications of inefficient use of such resources. Therefore, the amount and rate of consumption of such resources during construction and maintenance activities would not result in the unnecessary, inefficient, or wasteful use of energy resources.

Operation of the new single-family residence would involve consumption of electricity and natural gas – which are typical for residential land uses. The Project would be designed to comply with Title 24 Building, Energy and Green Buildings Standards (California Building Code, Title 24, Parts 4, 6, and 11). Sustainable design strategies for the new buildings would include the use of high performance glazing and a light-colored, single-ply, thermoplastic roof membrane over a well-insulated roof assembly to reduce heat gain during the summer. Other sustainable features would include energy-efficient light fixtures, lighting controls, and water-conserving plumbing fixtures. The building roof would be solar ready and able to support future installation of a photovoltaic system. Given the foregoing, the Project's consumption of energy resources would be less than significant, as it would not represent unnecessary, inefficient, or wasteful use of energy resources.

**Mitigation Measures:** No mitigation measures are required.

**2) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?**

**Less than Significant Impact.** As described above, the new single-family's energy efficiency would, at a minimum, comply with the California Energy Code and the California Building Code. While not specifically applicable to the Project, Senate Bill 350 sets ambitious 2030 targets for energy efficiency and renewable electricity, increasing California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. As described in Section F-2, the new single-family dwelling would include a solar-ready roof which could support future installation of a photovoltaic system. As such, the Project would not conflict with or obstruct state or local plan for renewable energy or energy efficiency.

**Mitigation Measures:** No mitigation measures are required.

**G. GEOLOGY AND SOILS**

<i>Would the project:</i>	<b>Potentially Significant Impact</b>	<b>Less than Significant Impact with Mitigation Incorporated</b>	<b>Less than Significant Impact</b>	<b>No Impact</b>
1. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.			<b>X</b>	
ii) Strong seismic ground shaking?			<b>X</b>	
iii) Seismic-related ground failure, including liquefaction?				<b>X</b>
iv) Landslides?			<b>X</b>	
2. Result in substantial soil erosion or the loss of topsoil?			<b>X</b>	

<i>Would the project:</i>	<b>Potentially Significant Impact</b>	<b>Less than Significant Impact with Mitigation Incorporated</b>	<b>Less than Significant Impact</b>	<b>No Impact</b>
3. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on-or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?		<b>X</b>		
4. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?			<b>X</b>	
5. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				<b>X</b>
6. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?			<b>X</b>	

**1) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:**

**i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.**

**Less Than Significant Impact.** According to the City's Safety Element (August 2003), the subject site is not located Alquist-Priolo Earthquake Fault Zone. Therefore, impacts from the rupture of a seismic fault are considered to be less than significant.

**Mitigation Measures:** No mitigation measures are required.

**ii. Strong seismic ground shaking?**

**Less than Significant Impact.** The Project site could be subject to strong ground shaking in the event of an earthquake originating along one of the faults listed as active or potentially active in the Southern California area. This hazard exists throughout Southern California and could pose a risk to public safety and property by exposing people, property, or infrastructure to potentially adverse effects, including strong seismic ground shaking. Compliance with applicable building codes would minimize structural damage to the building and ensure safety in the event of a moderate or major earthquake. Therefore, impacts related to strong seismic ground shaking would be less than significant.

**Mitigation Measures:** No mitigation measures are required.

**iii. Seismic-related ground failure, including liquefaction?**

**No Impact.** According to the City's Safety Element (August 2003), the Project site is not located within a mapped liquefaction hazard zone. No impact related to liquefaction would occur.

**Mitigation Measures:** No mitigation measures are required.

**iv. Landslides?**

**Less than Significant Impact.** A small portion of the site near the lower northwest corner of parcel has been identified by the City's Safety Element to be located within an area susceptible to seismic-induced landslides. However, the proposed building's foot print will be outside of this area. Moreover, no evidence of ancient or recent landslides, surficial, slumps, erosion or any other evidence of slope instability was observed at the time of field investigation. Therefore, no significant impact related to landslides is anticipated.

**Mitigation Measures:** No mitigation measures are required.

**2) Result in substantial soil erosion or the loss of topsoil?**

**Less than Significant Impact.** Construction activity associated with project development may result in wind and water driven erosion of soils due to grading activities if soil is stockpiled or exposed during construction. However, this impact is considered short-term in nature since the site would expose small amounts of soil during construction activities. Further, as part of the Project, the applicant would be required to adhere to Glendale Municipal Code Chapter 13.42 requirements and prepare and administer a plan that effectively provides for a minimum stormwater quality protection throughout Project construction. The plan would incorporate Best Management Practices (BMPs) to ensure that potential water quality impacts from water-driven erosion during construction would be reduced to less than significant. In addition, the applicant would be required to adhere to South Coast Air Quality Management District (SCAQMD) Rule 403 - Fugitive Dust, which would further reduce the impact related to soil erosion to less than significant.

**Mitigation Measures:** No mitigation measures are required.

**3) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in an on-site or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?**

**Less than Significant Impact with Mitigation Incorporated.** A Report of Geotechnical Investigation (geotechnical report) was prepared by Applied Earth Sciences (AES) (dated April 1, 2019) to evaluate the project site's slope stability, and to provide recommendations for design and construction of temporary excavations, retaining walls, foundations, and grading. During the course of AES' investigation, the geotechnical study consisted of the excavation, inspection, sampling and logging of six test pits at the project site. It was observed that the location of the new building and retaining walls is underlain by minor surficial fill, native soils, and sedimentary sandstone bedrock. Bedrock was encountered in all of the test pits, which was found to be moderately well indurated, crumbly to slightly friable, medium dense to dense, and slightly moist. The bedrock is expected to provide very good support for the Project through conventional spread footing. Piles will be used to support high walls where temporary shoring is used.

The vertical cuts from the planned grading (excavation) work will be supported by retaining walls. Most of the retaining walls will be integrated into the proposed building and will be part of the permanent structure. These walls will be designed as "restrained walls" and will be restrained against rotation. The upper most retaining wall supporting the ascending slope will be designed as cantilevered system. This retaining wall will have a freeboard of at least two feet and a concrete paved drain (swale) to divert surface water and collect normal erosion debris. For support of high cuts, use of temporary shoring will reduce the volume of over-excavation and the subsequent backfilling. The shoring will consist of cantilevered soldier piles. The piles will be incorporated into the retaining walls and be part of the permanent structures. The lower portions of the shoring piles (below the base of the excavation) will be used to provide vertical support through skin friction.

Based upon the findings of AES' geotechnical report, the bedrock will provide very good support for the Project through conventional spread footing. The following mitigation measures have been added to ensure that the project will comply with the recommended conditions in the geotechnical study which will prevent on-site or off-site landslide, lateral spreading, subsidence, or collapse during site preparation and construction activities.

**Mitigation Measures:** Compliance with Mitigation measures GEO-1, GEO-2 and GEO-3 will reduce potentially significant impacts to less than significant.

**GEO-1.** Site work should be made under continuous observation and testing to identify if significant variations are noted in the geologic features of the underlying bedrock.

- An Engineering Geologist shall inspect the cut slopes at a point where five feet of bedrock is exposed to confirm the results of the geotechnical report's findings.

- Prior to placing any backfilling, a Soils Engineer and/or Engineering Geologist shall observe the excavation bottoms. All backfill materials shall be placed under engineering observation and in accordance to the guidelines of geotechnical report.
- Excavation activities and all structural foundations (footing and piles) shall be observed and approved by a Registered Professional Engineer and/or Certified Engineering Geologist before the reinforcing is placed.
- All shoring piles shall be inspected by a qualified professional, such as a Grading Deputy.

**GEO-2** All slopes shall be covered with erosion resistant vegetation that are low water consumptive, fire retardant and deep rooted ground cover with proper irrigation to enhance soil cover stability.

**4) Be located on expansive soil, as defined in Table 18-1-B of the California Building Code (2001), creating substantial risks to life or property?**

**Less than Significant Impact.** Per the Report of Geotechnical Investigation (geotechnical report) prepared by Applied Earth Sciences (AES) (dated April 1, 2019), the project site's geologic composition includes minor surficial fill, native soils, and sedimentary sandstone bedrock. Bedrock was encountered in all six test pit locations. The bedrock is expected to provide very good support for the Project through conventional spread footing. Additionally, design and construction of the proposed project would comply with applicable building codes that would minimize damage due to geologic hazards. Therefore, impacts related to expansive soil would be less than significant.

**Mitigation Measures:** No mitigation measures are required.

**5) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?**

**No Impact.** Septic tanks will not be used in the project. The project would not connect to and use the existing sewage conveyance system. Therefore, no impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**6) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?**

**Less than Significant Impact.** Plant and animal fossils are typically found within sedimentary rock deposits. Most of the City of Glendale consists of igneous and metamorphic rock, and the local area is not known to contain paleontological resources. Nonetheless, there is a possibility that paleontological resources may exist at deep levels and could be unearthed with implementation of the proposed project. In the event that paleontological resources are unearthed during the proposed project-related subsurface activities all earth-disturbing work within a 100-meter radius must be temporary suspended or redirected until a paleontologist has evaluated the nature and significance of the find. After the find has been appropriately mitigated, work in the area may resume. With implementation of this standard requirement, no significant impact is anticipated.

**Mitigation Measures:** No mitigation measures are required.

## H. GREENHOUSE GAS EMISSIONS

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			X	

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
2. Conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			X	

**1) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

**Less than Significant Impact.** Greenhouse Gas (GHG) Emissions are said to result in an increase in the earth's average surface temperature commonly referred to as global warming. This rise in global temperature is associated with long-term changes in precipitation, temperature, wind patterns and other elements of the earth's climate system, known as climate change. These changes are now broadly attributed to GHG emissions, particularly those emissions that result from the human production and use of fossil fuels.

Climate changes resulting from GHG emissions could produce an array of adverse environmental impacts including water supply shortages, severe drought, increased flooding, sea level rise, air pollution from increased formation of ground level ozone and particulate matter, ecosystem changes, increased wildfire risk, agricultural impacts, ocean and terrestrial species impacts, among other adverse effects.

In 2006, the State passed the Global Warming Solutions Act of 2006, commonly referred to as AB 32, which set the greenhouse gas emissions reduction goal for the State of California into law. GHG as defined under AB 32 includes: carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. AB 32 requires the California Air Resources Board (CARB), the State agency charged with regulating statewide air quality, adopt rules and regulations that would achieve greenhouse gas emissions equivalent to statewide levels in 1990 by 2020 by reducing greenhouse gas emissions from significant sources via regulation, market mechanisms, and other actions.

Senate Bill 375 (SB 375), passed in 2008, links transportation and land use planning with global warming. It requires the California Air Resources Board (ARB) to set regional targets for the purpose of reducing greenhouse gas emissions from passenger vehicles. Under this law, if regions develop integrated land use, housing and transportation plans that meet SB 375 targets, new projects in these regions can be relieved of certain review requirements under CEQA. The Southern California Association of Governments (SCAG) has prepared the region's Sustainable Communities Strategy (SCS), which is part of the Regional Transportation Plan (RTP). Glendale has an adopted Greener Glendale Plan which meets regional greenhouse gas reduction targets, as established by SCAG and adopted by the ARB. The Greener Glendale Plan uses land use development patterns, transportation infrastructure investments, transportation measures and other policies that are determined to be feasible to reduce GHG.

At this time no air agency, including the SCAQMD, has adopted applicable project-level significance thresholds for GHGs emissions. AB 32 did not set a significance threshold for GHG emissions, although EPA, CARB or another agency may issue regulations at some point which may set forth significance criteria for CEQA analysis. In the interim, none of the CEQA Guidelines, the CEQA Air Quality Handbook, the Air Quality Management Plan, or the SCAQMD set forth applicable significance thresholds for GHG emissions.

Due to the complex physical, chemical and atmospheric mechanisms involved in global climate change, there is no basis for concluding that the project's very small and essentially temporary (primarily from construction) increase in emissions could cause a measurable increase in global GHG emissions necessary to force global climate change.

CEQA Guidelines Section 15130(f) clarifies that the effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis. CEQA



Guidelines Section 15064.4 recommends consideration of qualitative factors that may be used in the determination of significance, including the extent to which the project complies with regulations or requirements adopted to implement a reduction or mitigation of GHGs. Per CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area of the project. Examples of such programs include "plans or regulations for the reduction of greenhouse gas emissions."

Since this Project is consistent with Greener Glendale Strategies to reduce GHGs and the SCS prepared by SCAG, this project would result in a less than cumulatively considerable impact on GHG emissions and no mitigation is required.

**Mitigation Measures:** No mitigation measures are required.

**2) Conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?**

**Less than Significant Impact:** For the reasons discussed in Response G-1 above, the Project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. No significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**I. HAZARDS AND HAZARDOUS MATERIALS**

<i>Would the project:</i>	<b>Potentially Significant Impact</b>	<b>Less than Significant Impact with Mitigation Incorporated</b>	<b>Less than Significant Impact</b>	<b>No Impact</b>
1. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				<b>X</b>
2. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			<b>X</b>	
3. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				<b>X</b>
4. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				<b>X</b>
5. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				<b>X</b>
6. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			<b>X</b>	
7. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			<b>X</b>	

**1) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?**

**No Impact.** The project would not involve the use, routine transport, or disposal of hazardous materials. No impact as a result of the project would occur.

**Mitigation Measures:** No mitigation measures are required.

- 2) **Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?**

**Less Than Significant Impact.** The Project would be required to comply with all applicable rules established by the SCAQMD, including Rules 403, during construction that would prevent dust from migrating beyond the Project site. Compliance with these rules will result in a less than significant impact.

**Mitigation Measures:** No mitigation measures are required.

- 3) **Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

**No Impact.** The Project is not located within one-quarter mile of an existing or proposed school. Therefore, no impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

- 4) **Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

**No Impact.** The Project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

- 5) **For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?**

**No Impact.** The Project site is not located within an airport land use plan or within two miles of a public airport or public use airport. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

- 6) **Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?**

**No Impact.** No private airstrips are located in the City of Glendale or in the vicinity of the Project site. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

- 7) **Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?**

**Less than Significant Impact.** According to the City of Glendale General Plan Safety Element, Corona Drive is not identified as a City Disaster Response Route. However, South Verdugo Road is approximately one-half mile from the Project site. South Verdugo Road is a County Disaster Response Route to be used by emergency response services during an emergency and, if the situation warrants, the evacuation of an area. Implementation of the Project will not involve any work off-site or in the public right of way. Accordingly, the project would neither result in a reduction of the number of lanes along South Verdugo Road, nor result in the placement of an impediment, such as medians, to the flow of traffic. During construction, the construction contractor will be required to notify the City of Glendale Police and Fire Departments of construction activities that would impede movement (such as movement of equipment) to allow for these first emergency response teams to reroute traffic to an alternative route, if needed. Further, during construction the applicant would be

required to obtain any necessary permits from the City of Glendale Public Works Department for all work occurring within the public right-of-way. Implementation of these requirements would be incorporated as typical condition of approval. Consequently, project impacts on an adopted emergency response plan or emergency evacuation plan would be less than significant.

**Mitigation Measures:** No mitigation measures are required.

**8) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?**

**Less than Significant Impact.** The project is located within a "Fire Hazard Area" and would be required to comply with GFD brush clearance requirements throughout the life of the project. The brush clearance requirements call for the removal of continuous stands of brush and all dead vegetation and specifically state that not all native shrubs are hazardous. The requirements implicitly state not to strip slopes to bare soil or take all cover off of steep hillsides in order to prevent actions that may accelerate soil erosion, which are prohibited by City ordinance. As a result of these implemented hazard mitigation programs, less than significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**J. HYDROLOGY AND WATER QUALITY**

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface of groundwater quality?			X	
2. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			X	
3. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				
i) result in substantial erosion or siltation on- or off-site;			X	
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;			X	
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			X	
iv) impede or redirect flood flows?			X	
4. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				X
5. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				X

**1) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface of groundwater quality?**

**Less than Significant Impact.** The project would be required to comply with all NPDES requirements including pre-construction, during construction and post-construction Best Management Practices (BMPs). In addition, the project will be required to submit an approved SUSMP (Standard Urban Stormwater Mitigation Plan) to be integrated into the project design. Because the project must comply with all of these requirement impacts associated with water quality standards or waste discharge requirements are anticipated to be less than significant.

**Mitigation Measures:** No mitigation measures are required.

- 2) ***Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?***

**Less than Significant Impact.** The City currently utilizes water from Glendale Water and Power (GWP), which relies on some local groundwater supplies. Implementation of the Project would result in additional development that could indirectly require a slight increased use of groundwater through the provision of potable water by GWP; however, as discussed in Response Q-2 below, the Project's water demand is within the City's water projections.

The amount of hardscape proposed on the Project site would only slightly increase the current on-site conditions, so the result would not be a significant impact. The Project would provide a substantial landscape area and, therefore, would not significantly interfere with the recharge of local groundwater or deplete the groundwater supplies relative to existing conditions. Consequently, impacts related to groundwater extraction and recharge will be less than significant.

**Mitigation Measures:** No mitigation measures are required.

- 3) ***Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?***

- i. ***result in substantial erosion or siltation on- or off-site;***

**Less Than Significant Impact.** The Project site is located on a hillside and no watercourses run through it. Currently, water which falls on the Project site either is absorbed into the ground on-site or will run off onto Corona Drive. The Project will modify the existing drainage pattern of the site. The method of discharge associated with the area proposed for development will require the approval of the City Engineer. Based on the scale of the Project, the development of a single-family dwelling will not substantially alter the natural drainage of the site, and therefore, would not result in substantial increase in runoff. Less than significant impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

- ii. ***Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?***

**Less Than Significant Impact.** The proposed project would not alter the course of a stream or river. Flood hazards due to heavy precipitation can result in inundation of developed areas due to overflow of nearby stream courses or from inadequate local storm drain facilities, if not sized to accommodate large storm events. The City has developed a flood control system that provides protection for its residents. The amount of surface runoff will not change as a result of the project. In addition, no Federal Emergency Management Agency (FEMA) designated flood zones are located within the project site as indicated in the City of Glendale General Plan Safety Element (August 2003). There, flooding impacts would be less than significant. Project site is located on a hillside and no watercourses run through it.

**Mitigation Measures:** No mitigation measures are required.

- iii. ***substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;***

**Less Than Significant Impact.** Please refer to Response J-3 above. Less than significant impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

- iv. ***create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff;***

**Less Than Significant Impact.** Please refer to Response J-3 above. Less than significant impacts would occur.

**Mitigation Measures:** No mitigation measures are required

v. ***impede or redirect flood flows?***

**Less Than Significant Impact.** Please refer to Response J-3 above. Less than significant impacts would occur.

**Mitigation Measures:** No mitigation measures are required

4) ***In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?***

**No Impact.** Seiches are typically caused when strong winds and rapid changes in atmospheric pressure push water from one end of a body of water to the other, causing the water then continues to oscillate back and forth for hours or even days. The proposed Project site is not located downslope of any large body of water that would produce a seiche. Tsunamis are large ocean waves generated by sudden water displacement caused by a submarine earthquake, landslide, or volcanic eruption. A review of the County of Los Angeles Flood and Inundation Hazards Map indicates that the site is not within the mapped tsunami inundation boundaries. According to the City of Glendale General Plan Safety Element, the proposed project is not located within the inundation zone of a reservoir or dam located within the City or elsewhere. No Project impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

5) ***Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?***

**No Impact.** The City currently utilizes water from Glendale Water and Power (GWP), which relies on some local groundwater supplies. Consequently, implementation of the proposed project would result in additional development that could indirectly require a slight increased use of groundwater through the provision of potable water by GWP; however, as discussed in Response Q-2 below, the proposed project's water demand is within water projections. This Project was routed to GWP for comment and this department did not comment with concerns that the Project will substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level. As a result, implementation of the proposed project would not substantially deplete groundwater supplies.

The proposed project complies with the Glendale Municipal Code's minimum landscape requirements and, therefore, would not significantly interfere with the recharge of local groundwater or deplete the groundwater supplies relative to existing conditions. Consequently, impacts related to groundwater extraction and recharge would not change compared to existing conditions will be less than significant.

**Mitigation Measures:** No mitigation measures are required.

K. **LAND USE AND PLANNING**

<b><i>Would the project:</i></b>	<b>Potentially Significant Impact</b>	<b>Less than Significant Impact with Mitigation Incorporated</b>	<b>Less than Significant Impact</b>	<b>No Impact</b>
1. Physically divide an established community?				<b>X</b>
2. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			<b>X</b>	

1) ***Physically divide an established community?***

**No Impact.** The proposed project is to construct a new two-story, 2,566 square-foot single-family dwelling with an attached 495 square-foot two-car garage. The site is surrounded by other existing single-family residences and is zoned for such use. The established neighborhood would not be divided as a result of the Project. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**2) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?**

**Less than Significant Impact.** The General Plan and Zoning Code land use designations for the subject site is Low Density Residential. The Project complies with the Land Use Element of the General Plan and Zoning Code and will not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project. The project will require approval from the Design Review Board to ensure less than significant impacts to the visual character or quality of the site and its surroundings.

As a result, conflicts with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project are anticipated to be less than significant.

**Mitigation Measures:** No mitigation measures are required.

## L. MINERAL RESOURCES

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X
2. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				X

**1) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?**

**No Impact.** The Project site is not within an area that has been identified as containing valuable mineral resources, as indicated in the City's Open Space and Conservation Element (January 1993). No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**2) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?**

**No Impact.** As indicated in Response L-1 above, there are no known mineral resources within the Project site. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

## M. NOISE

<i>Would the project result in:</i>	<b>Potentially Significant Impact</b>	<b>Less than Significant Impact with Mitigation Incorporated</b>	<b>Less than Significant Impact</b>	<b>No Impact</b>
1. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			X	
2. Generation of excessive groundborne vibration or groundborne noise levels?			X	
3. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X

- 1) **Less than Significant Impact.** Surrounding the Project site are other R1R zoned properties with existing single-family dwellings to the east and west, and vacant lots to the north and south. Single-family residences are a permitted use in the R1R zone, and will not permanently increase the ambient noise levels in the vicinity because the Project is similar to the surrounding properties.

Construction associated with the project will be required to comply with the City of Glendale Noise Ordinance (Municipal Code Chapter 8.36), which prohibits construction activities from occurring during prohibited hours that have been established in the GMC. Prohibited hours refers to any time after the hour of 7:00 PM of any day; any time before the hour of 7:00 AM of any day; any time on Sunday; and any time on holidays. In accordance with the Noise Ordinance, construction would be prohibited from 7:00 PM to 7:00 AM every night and from 7:00 PM on Saturday to 7:00 AM on Monday.

As a result, the development of a single-family residence on this site would not generate substantial temporary or permanent increase in ambient noise in excess of the limits contained in the Noise Element. Less than significant impact would occur.

**Mitigation Measures:** No mitigation measures are required.

- 2) **Generation of excessive groundborne vibration or groundborne noise levels?**

**Less than Significant Impact.** Excessive groundborne vibration is typically associated with activities such as blasting used in mining operations, or the use of pile drivers during construction. The project would not require any blasting activities and any earth movement associated with project construction is not anticipated to require pile driving. Therefore, the project is not expected to generate excessive groundborne vibration or groundborne noise levels. No significant impacts are anticipated.

Heavy construction equipment (e.g. bulldozer and excavator) would generate a limited amount of ground-borne vibration during construction activities at short distances away from the source. The use of equipment would most likely be limited to a few hours spread over several days during demolition/grading activities. Post-construction on-site activities would be limited to mechanical equipment (e.g., air handling unit and exhaust fans) that would not generate excessive ground-borne vibration or ground-borne noise. As such, ground-borne vibration and noise levels associated with the proposed project would be less than significant.

**Mitigation Measures:** No mitigation measures are required.

- 3) **For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?**

**No Impact.** The Project site is neither located within an airport land use plan nor is it located within two miles of a public airport or public use airport. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

## N. POPULATION AND HOUSING

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				X
2. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				X

### 1) ***Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?***

**No Impact.** Single-family residential uses are consistent with the existing zoning of the project site. The proposed project is also consistent with the General Plan and intended purpose to provide for low-density residential uses. In addition, as indicated in Section C-1 above, the project would not cause population growth Glendale to exceed regional SCAG forecasts. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

### 2) ***Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?***

**No Impact.** The project site is currently a vacant lot without any dwellings developed on the property. Therefore, no housing or residential population would be displaced by development of the proposed subdivision, and the construction of replacement housing elsewhere would not be necessary. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

## O. PUBLIC SERVICES

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a) Fire protection?			X	
b) Police protection?			X	
c) Schools?			X	
d) Parks?			X	



<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
e) Other public facilities?			X	

- 1) ***Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:***

**a. Fire protection?**

**Less Than Significant Impact.** The Glendale Fire Department (GFD) provides comprehensive emergency services for the City of Glendale, including fire, rescue, and emergency medical (paramedic) services, as well as fire prevention and code enforcement functions. The nearest fire station, Fire Station No. 22, is located at 1201 S. Glendale Avenue, approximately 1.7 west of the project site, followed by Fire Stations No. 21 and No 25, approximately 2.0 and 3.0 miles to the northwest and north, respectively.

The proposed project would add one additional single-family residence. This increase would not substantially affect provision of fire protection given that the project site is located close to existing fire stations. Furthermore, compliance with the applicable Fire Code and the Building Code provisions would minimize the project's impact on fire services. As a result, the proposed project would be adequately served by existing of existing fire stations. Therefore, the overall need for fire protection services is not expected to substantially increase. Impacts would be less *than significant*.

**Mitigation Measures:** No mitigation measures are required.

**b. Police protection?**

**Less Than Significant Impact.** The Glendale Police Department (GPD) provides police protection services to the project site from its station at 131 North Isabel Street, approximately 2.4 miles to the south. The project can be adequately served by existing police protection services and is not anticipated to result in substantial adverse impacts. The overall need for police protection services is not expected to substantially increase as a result of the proposed project. No significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**c. Schools?**

**Less Than Significant Impact.** The proposed project will have a less than significant impact of schools. Section 65995 of the Government Code provides that school districts can collect a fee on a per square foot basis for new residential development to assist in the construction of or addition to schools. The State has determined that payment of the school fee mitigates impacts to schools to a level less than significant.

**Mitigation Measures:** No mitigation measures are required.

**d. Parks?**

**Less Than Significant Impact.** The proposed project will result in the construction of a single dwelling unit. The project applicant will be required to pay a development impact fee which would offset impacts to parks, in accordance with the requirements of the City of Glendale Municipal Code (Ordinance No. 5575 and Resolution No. 07-164). Less than significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**e. Other public facilities?**

**Less Than Significant Impact.** The proposed project will result in the construction of a single dwelling unit. The project applicant will be required to pay a development impact fee, which would offset impacts to library facilities, in accordance with the requirements of the City of Glendale Municipal Code (Ordinance No. 5575 and Resolution No. 07-164). Less than significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

## P. RECREATION

	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				X
2. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				X

- 1) ***Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?***

**No Impact.** The project, as proposed, is consistent with the Land Use Element, which designates the Project site as low density residential. The potential demand for new parks, or increased maintenance and additional improvements at existing parks, would be minimal. Therefore, no impact associated with the demand of existing park facilities would occur.

**Mitigation Measures:** No mitigation measures are required.

- 2) ***Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?***

**No Impact.** The proposed project involves the construction of a new two-story, 2,299 square-foot single-family dwelling with an attached 545 square-foot two-car garage. As indicated in Response N-1 above, the project is not anticipated to significantly increase the demand on existing parks, since a single-family residence is considered to be a low intensive land use. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

## Q. TRANSPORTATION

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Conflict with program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			X	
2. Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?			X	

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
3. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				X
4. Result in inadequate emergency access?			X	

**1) Conflict with program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?**

**Less than Significant Impact.** The proposed project would not result in a substantial increase of residences above the current condition since it involves the construction of an additional single family residence. However, there would be a temporary increase in day time traffic as a result of the construction activities. A traffic control plan will be required for project construction. The plan will be required to identify all traffic control measures, signs, and delineators to be implemented by the construction contractor. The plan will also be required to identify contractor information, hours of construction, construction worker parking information, as well as the proposed haul route. As a result, no significant impacts are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**2) Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?**

**Less than Significant Impact.** As discussed above in Response Q-1, the proposed project would not result in any significant increase in traffic on the area roadway network. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

**3) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?**

**No Impact.** The Project site is not located near an airport. Consequently, the Project would not result in a change in air traffic patterns that would result in safety risks. No impact would occur.

**Mitigation Measures:** No mitigation measures are required.

**4) Result in inadequate emergency access?**

**Less than Significant Impact.** No changes to the existing roadway network are proposed as a result of the project. Access to the property will be taken from Corona Drive, which is a designed as a local street in the City's Circulation Element. As indicated in Section Q-1 above, a traffic control plan will be required for the construction phase of the project. The plan will be reviewed and approved by the City's Engineering Division to ensure that emergency access is not impacting during construction. As a result, no significant impacts to emergency access are anticipated.

**Mitigation Measures:** No mitigation measures are required.

## **R. TRIBAL CULTURAL RESOURCES**

<i>Would the project:</i>	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
1. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i) Listed or eligible for listing in the California Register of Historical Resources, or in the local register of historical resources as defined in Public Resources Code Section 5020.1(k), or			X	
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.			X	

**1) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:**

**i. Listed or eligible for listing in the California Register of Historical Resources, or in the local register of historical resources as defined in Public Resources Code Section 5020.1(k), or**

**Less Than Significant Impact.** Written notice was given to the Fernandeno Tataviam of Mission Indians and Soboba Band of Luiseno Indians, as required by AB 52 and codified in Public Resources Code Section 21080.3.1 et seq. Consultation was not requested by either tribe within the 30-days of notice. In addition, no known tribal resource is located on the Project site. In the event that resources are unearthed during project subsurface activities, all earth-disturbing work must be temporarily suspended or redirected until NAHC has evaluated the nature and significance of the find. After the find has been appropriately mitigated, work in the area may resume. With implementation of this standard requirement, no significant impact is anticipated.

**Mitigation Measures:** No mitigation measures are required.

**ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.**

**Less than Significant Impact.** As mentioned previously, no known burial sites exist within the vicinity of the Project site and surrounding area. Therefore, the potential for impact on known human remains or a resource determined to be significant by a California Native American tribe is low. No resources have been identified on the Project site pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. Written notice was given to the Fernandeno Tataviam of Mission Indians and Soboba Band of Luiseno Indians, as required by AB 52 and codified in Public Resources Code Section 21080.3.1 et seq. Consultation was not requested by either tribe within the 30-days of notice. As such, impacts would be less than significant.

**Mitigation Measures:** No mitigation measures are required.

## S. UTILITIES AND SERVICE SYSTEMS

<i>Would the project:</i>	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				X
2. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			X	
3. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				X
4. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			X	
5. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				X

**1) *Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?***

**No Impact.** The Project is to construct a new single-family residence and would not significantly increase the overall number of residential dwelling units in the city. The proposed Project is not anticipated to substantially increase the demand for new water or wastewater treatment facilities or the need to expand existing utility facilities. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

**2) *Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?***

**Less than Significant Impact.** Water would be provided to the Project site via existing supply lines adjacent to the Project site. The proposed project will be required to comply with the Hillside Landscape Guidelines as well as planting of drought tolerant and California-friendly landscape. In addition, the project will be required to comply with water conservation measures found in the building code. As a result, no significant impacts to the availability of water are anticipated.

**Mitigation Measures:** No mitigation measures are required.

**3) *Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?***

**No Impact.** The proposed project would not create a significant increase in the generation of wastewater and will comply with federal, state and local statutes and regulations related to wastewater. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

**4) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?**

**Less Than Significant Impact.** The majority of solid waste generated in the City of Glendale is transported to Scholl Canyon Landfill, which has the capacity to accept solid waste until October 2026. Solid waste generation is expected to increase during the demolition and construction phases of the project, as well as when the future residents move into the single-family residence. However, the existing solid waste system would be sufficient to accommodate waste generated by the project. No significant impacts to solid waste facilities are anticipated to occur as a result of the proposed project.

**Mitigation Measures:** No mitigation measures are required.

**5) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?**

**No Impact.** The Project will comply with all federal, state, and local statutes and regulations related to solid waste. All construction debris will be disposed of according to applicable federal, state, and local statutes, including Glendale Municipal Code Chapter 8.58. No impacts would occur as a result of the Project.

**Mitigation Measures:** No mitigation measures are required.

**T. WILDFIRE**

If located in or near state responsibility area or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Substantially impair an adopted emergency response plan or emergency evacuation plan?				X
2. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from wildfire or the uncontrolled spread of a wildfire?				X
3. Require the installation or maintenance of associated infrastructure (such as roads, fuel, breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				X
4. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				X

**1) Substantially impair an adopted emergency response plan or emergency evacuation plan?**

**No Impact.** The California Department of Forestry and Fire Protection (CAL FIRE) maps areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors, pursuant to Public Resources Code §§ 4201-4204 and Government Code §§ 51175-51189. These areas are referred to as Fire Hazard Severity Zones (FHSZs) and are identified for areas where the state has financial responsibility for wildland fire protection (i.e., state responsibility areas, or SRAs), and areas where local governments have financial responsibility for wildland fire protection (i.e., local responsibility areas, or LRAs).

There are three FHSZ mapped for SRAs (moderate, high, and very high), while only lands zoned as very high are identified in LRAs (CAL FIRE 2007). The Project site is not located within a LRA and is not located near a SRA or a very high FHSZ. As a result, no impact would occur related to wildfire hazards, including emergency response/evacuation, pollutants and uncontrolled wildfire spread, associated infrastructure, or post-fire effects.

**Mitigation Measures:** No mitigation measures are required.

- 2) ***Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from wildfire or the uncontrolled spread of a wildfire?***

**No Impact.** As indicated in Response T-1 above, Project site is not located within a LRA and is not located near a SRA or a very high FHSZ. No impacts would occur related to wildfire hazards due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from wildfire or the uncontrolled spread of a wildfire.

**Mitigation Measures:** No mitigation measures are required.

- 3) ***Require the installation or maintenance of associated infrastructure (such as roads, fuel, breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?***

**No Impact.** As indicated in Response T-1 above, Project site is not located within a LRA and is not located near a SRA or a very high FHSZ. No impacts would occur related to the installation or maintenance of associated infrastructure that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment.

**Mitigation Measures:** No mitigation measures are required.

- 4) ***Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?***

**No Impact.** As indicated in Response T-1 above, Project site is not located within a LRA and is not located near a SRA or a very high FHSZ. No impacts would occur.

**Mitigation Measures:** No mitigation measures are required.

#### U. MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
1. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?			X	
2. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)			X	
3. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			X	

- 1) ***Does the project have the potential to substantial degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community,***

***substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?***

**Less Than Significant Impact.** The property has been slightly disturbed by human activity. The site is covered with a thin fill of veneer of soil overlying the natural slope and appears to have been generated as spill-fill from past construction of the upper street or lots/houses on the adjacent upslope properties to the east. Although the site is vacant, it is located in a developed area where there are constraints to wildlife movement under the existing condition. Existing development in the area limits wildlife movement. The proposal to construct a new single-family residence would not result in any significant barrier to wildlife moving through the area. Less than significant impacts are anticipated to occur to the quality of the environment or animal communities, or to rare, threatened or endangered plant and animal species as a result of the project.

**Mitigation Measures:** No mitigation measures are required.

- 2) ***Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)***

**Less than Significant Impact.** Development of the new single-family dwelling will not substantially increase traffic nor would it result in a substantial increase in population. The proposed project is consistent with the zoning code and General Plan. Less than significant impacts will occur.

**Mitigation Measures:** No mitigation measures are required.

- 3) ***Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?***

**Less than Significant Impact.** The project involves the construction of a new single-family residence on a vacant lot. The proposed single-family residence is consistent with the permitted uses for this zone, and therefore, is not considered growth inducing and will not directly or indirectly lead to increased population that would generate additional calls for fire, paramedic or police services. Development of the proposed project would not create direct and indirect adverse effects on humans. Less than significant impact would occur.

**Mitigation Measures:** No mitigation measures are required.

### 13. Earlier Analyses

None

### 14. Project References Used to Prepare Initial Study Checklist

One or more of the following references were incorporated into the Initial Study by reference, and are available for review in the Planning Division Office, 633 E. Broadway, Rm. 103, Glendale, CA 91206-4386. Items used are referred to by number on the Initial Study Checklist.

1. The City of Glendale’s *General Plan*, “Open Space and Conservation Element,” as amended.
2. California Department of Conservation, *Farmland Mapping and Monitoring Program*, Los Angeles County Important Farmland 2010 (September 2011).
3. South Coast Air Quality Management District, Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning (May 2005), p. 2-2.
4. City of Glendale, *General Plan*, “Safety Element” (2003), Plate P-3.
5. City of Glendale, *General Plan*, “Safety Element” (2003), Plate P-2.
6. City of Glendale, *General Plan*, “Safety Element” (2003).
7. California Governor’s Office of Planning and Research, State of California General Plan Guidelines (October 2003).



8. City of Glendale Municipal Code, as amended.
9. Applied Earth Sciences (AES), A Report of Geotechnical Investigation (dated April 1, 2019)
10. California Emissions Estimator Module (CalEEMod version 2016.3.2) Report.

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

## 1248 Corona Drive (Single-family Residence)

### Los Angeles-South Coast County, Summer

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.20	2,844.00	3

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Two-story, 2,299 square-foot single-family dwelling w/ a 545 square-foot two-car garage on a 8,889 square-foot lot. Total export of 1,058 cubic yards of soil.

Land Use - Parcel size is 8,889 square-feet (0.2 acre) and the single-family dwelling size is 2,299 square-feet with an attached 545 two-car garage.

Construction Phase - The project site is a vacant hillside property without any buildings or structures. As a result, zero days of demolition is provided within this air quality model.

Demolition - Vacant site. Zero square-footage of building or structure demolition.

Grading -

Energy Use -

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	11/17/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	11/3/2021	11/2/2021
tblConstructionPhase	PhaseEndDate	6/11/2021	6/9/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/15/2021
tblConstructionPhase	PhaseEndDate	11/10/2021	11/9/2021
tblConstructionPhase	PhaseEndDate	6/14/2021	6/11/2021
tblConstructionPhase	PhaseStartDate	11/11/2021	11/10/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	6/16/2021
tblConstructionPhase	PhaseStartDate	5/31/2021	6/10/2021
tblConstructionPhase	PhaseStartDate	6/15/2021	6/12/2021
tblConstructionPhase	PhaseStartDate	11/4/2021	11/3/2021
tblConstructionPhase	PhaseStartDate	6/12/2021	6/11/2021
tblGrading	MaterialExported	0.00	1,058.00
tblLandUse	LandUseSquareFeet	1,800.00	2,844.00
tblLandUse	LotAcreage	0.32	0.20

## 2.0 Emissions Summary

---

1248 Corona Drive (Single-family Residence) - 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	3.7781	24.9866	12.1230	0.0646	2.0784	0.4626	2.5410	0.7688	0.4414	1.2103	0.0000	6,847.856 2	6,847.856 2	0.5963	0.0000	6,862.764 1
Maximum	3.7781	24.9866	12.1230	0.0646	2.0784	0.4626	2.5410	0.7688	0.4414	1.2103	0.0000	6,847.856 2	6,847.856 2	0.5963	0.0000	6,862.764 1

### 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	3.7781	24.9866	12.1230	0.0646	2.0784	0.4626	2.5410	0.7688	0.4414	1.2103	0.0000	6,847.8561	6,847.8561	0.5963	0.0000	6,862.7641
Maximum	3.7781	24.9866	12.1230	0.0646	2.0784	0.4626	2.5410	0.7688	0.4414	1.2103	0.0000	6,847.8561	6,847.8561	0.5963	0.0000	6,862.7641

[illegible]

## 1248 Corona Drive (Single-family Residence) - 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	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
Mobile	0.0192	0.0905	0.2639	9.1000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		92.5539	92.5539	4.8100e-003		92.6740
<b>Total</b>	<b>0.3458</b>	<b>0.1192</b>	<b>0.8581</b>	<b>2.2500e-003</b>	<b>0.0720</b>	<b>0.0782</b>	<b>0.1502</b>	<b>0.0193</b>	<b>0.0781</b>	<b>0.0974</b>	<b>9.3669</b>	<b>119.5581</b>	<b>128.9250</b>	<b>0.0331</b>	<b>8.0000e-004</b>	<b>129.9892</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	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
Mobile	0.0192	0.0905	0.2639	9.1000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		92.5539	92.5539	4.8100e-003		92.6740
<b>Total</b>	<b>0.3458</b>	<b>0.1192</b>	<b>0.8581</b>	<b>2.2500e-003</b>	<b>0.0720</b>	<b>0.0782</b>	<b>0.1502</b>	<b>0.0193</b>	<b>0.0781</b>	<b>0.0974</b>	<b>9.3669</b>	<b>119.5581</b>	<b>128.9250</b>	<b>0.0331</b>	<b>8.0000e-004</b>	<b>129.9892</b>

1248 Corona Drive (Single-family Residence) - 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	6/10/2021	6/9/2021	5	10	
2	Site Preparation	Site Preparation	6/11/2021	6/11/2021	5	1	
3	Grading	Grading	6/12/2021	6/15/2021	5	2	
4	Building Construction	Building Construction	6/16/2021	11/2/2021	5	100	
5	Paving	Paving	11/3/2021	11/9/2021	5	5	
6	Architectural Coating	Architectural Coating	11/10/2021	11/16/2021	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 5,759; Residential Outdoor: 1,920; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0  
(Architectural Coating – sqft)

#### OffRoad Equipment

## 1248 Corona Drive (Single-family Residence) - 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	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2021

### Unmitigated Construction On-Site

[illegible]



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

### 3.2 Demolition - 2021

### Unmitigated Construction Off-Site

[illegible]

### Mitigated Construction On-Site

[illegible]

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2995</b>	<b>0.8297</b>	<b>0.0573</b>	<b>0.2755</b>	<b>0.3328</b>		<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.0214</b>	<b>0.0147</b>	<b>0.2014</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>56.9385</b>	<b>56.9385</b>	<b>1.6800e-003</b>		<b>56.9804</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2995</b>	<b>0.8297</b>	<b>0.0573</b>	<b>0.2755</b>	<b>0.3328</b>	<b>0.0000</b>	<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
<b>Total</b>	<b>0.0214</b>	<b>0.0147</b>	<b>0.2014</b>	<b>5.7000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>56.9385</b>	<b>56.9385</b>	<b>1.6800e-003</b>		<b>56.9804</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8126	0.0000	0.8126	0.4228	0.0000	0.4228			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
<b>Total</b>	<b>0.7965</b>	<b>7.2530</b>	<b>7.5691</b>	<b>0.0120</b>	<b>0.8126</b>	<b>0.4073</b>	<b>1.2199</b>	<b>0.4228</b>	<b>0.3886</b>	<b>0.8114</b>		<b>1,147.4338</b>	<b>1,147.4338</b>	<b>0.2138</b>		<b>1,152.7797</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5503	17.7041	4.1511	0.0515	1.1540	0.0543	1.2084	0.3163	0.0520	0.3683		5,586.545 4	5,586.545 4	0.3791		5,596.023 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
<b>Total</b>	<b>0.5932</b>	<b>17.7335</b>	<b>4.5539</b>	<b>0.0526</b>	<b>1.2658</b>	<b>0.0552</b>	<b>1.3211</b>	<b>0.3460</b>	<b>0.0528</b>	<b>0.3988</b>		<b>5,700.422 4</b>	<b>5,700.422 4</b>	<b>0.3825</b>		<b>5,709.984 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8126	0.0000	0.8126	0.4228	0.0000	0.4228			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.433 8	1,147.433 8	0.2138		1,152.779 7
<b>Total</b>	<b>0.7965</b>	<b>7.2530</b>	<b>7.5691</b>	<b>0.0120</b>	<b>0.8126</b>	<b>0.4073</b>	<b>1.2199</b>	<b>0.4228</b>	<b>0.3886</b>	<b>0.8114</b>	<b>0.0000</b>	<b>1,147.433 8</b>	<b>1,147.433 8</b>	<b>0.2138</b>		<b>1,152.779 7</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5503	17.7041	4.1511	0.0515	1.1540	0.0543	1.2084	0.3163	0.0520	0.3683		5,586.545 4	5,586.545 4	0.3791		5,596.023 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
<b>Total</b>	<b>0.5932</b>	<b>17.7335</b>	<b>4.5539</b>	<b>0.0526</b>	<b>1.2658</b>	<b>0.0552</b>	<b>1.3211</b>	<b>0.3460</b>	<b>0.0528</b>	<b>0.3988</b>		<b>5,700.422 4</b>	<b>5,700.422 4</b>	<b>0.3825</b>		<b>5,709.984 3</b>

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.215 8	1,103.215 8	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>		<b>1,103.215 8</b>	<b>1,103.215 8</b>	<b>0.3568</b>		<b>1,112.135 8</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**3.5 Building Construction - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>	<b>0.0000</b>	<b>1,103.2158</b>	<b>1,103.2158</b>	<b>0.3568</b>		<b>1,112.1358</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**3.5 Building Construction - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.6 Paving - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7214</b>	<b>6.7178</b>	<b>7.0899</b>	<b>0.0113</b>		<b>0.3534</b>	<b>0.3534</b>		<b>0.3286</b>	<b>0.3286</b>		<b>1,035.3425</b>	<b>1,035.3425</b>	<b>0.3016</b>		<b>1,042.8818</b>



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
<b>Total</b>	<b>0.0772</b>	<b>0.0530</b>	<b>0.7250</b>	<b>2.0600e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>204.9786</b>	<b>204.9786</b>	<b>6.0400e-003</b>		<b>205.1296</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7214</b>	<b>6.7178</b>	<b>7.0899</b>	<b>0.0113</b>		<b>0.3534</b>	<b>0.3534</b>		<b>0.3286</b>	<b>0.3286</b>	<b>0.0000</b>	<b>1,035.3425</b>	<b>1,035.3425</b>	<b>0.3016</b>		<b>1,042.8818</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**3.6 Paving - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
<b>Total</b>	<b>0.0772</b>	<b>0.0530</b>	<b>0.7250</b>	<b>2.0600e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>204.9786</b>	<b>204.9786</b>	<b>6.0400e-003</b>		<b>205.1296</b>

**3.7 Architectural Coating - 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					
Archit. Coating	3.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>3.7781</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**3.7 Architectural Coating - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>3.7781</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**3.7 Architectural Coating - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

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

## 1248 Corona Drive (Single-family Residence) - 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	0.0192	0.0905	0.2639	9.1000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		92.5539	92.5539	4.8100e-003		92.6740
Unmitigated	0.0192	0.0905	0.2639	9.1000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		92.5539	92.5539	4.8100e-003		92.6740

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	9.52	9.91	8.62	32,282	32,282

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

## 5.0 Energy Detail

---

Historical Energy Use: N

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
NaturalGas Unmitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083

**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					
Single Family Housing	75.2728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0752728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069
Unmitigated	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**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	4.8800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764	9.3669	18.0000	27.3669	0.0279	6.4000e-004	28.2547
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.3257</b>	<b>0.0217</b>	<b>0.5912</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</b>	<b>9.3669</b>	<b>18.1486</b>	<b>27.5155</b>	<b>0.0281</b>	<b>6.4000e-004</b>	<b>28.4069</b>



1248 Corona Drive (Single-family Residence) - 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	4.8800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764	9.3669	18.0000	27.3669	0.0279	6.4000e-004	28.2547
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.3257</b>	<b>0.0217</b>	<b>0.5912</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</b>	<b>9.3669</b>	<b>18.1486</b>	<b>27.5155</b>	<b>0.0281</b>	<b>6.4000e-004</b>	<b>28.4069</b>

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

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

**10.0 Stationary Equipment**

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

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

**11.0 Vegetation**

---

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**1248 Corona Drive (Single-family Residence)**  
**Los Angeles-South Coast County, Annual**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.20	2,844.00	3

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Two-story, 2,299 square-foot single-family dwelling w/ a 545 square-foot two-car garage on a 8,889 square-foot lot. Total export of 1,058 cubic yards of soil.

Land Use - Parcel size is 8,889 square-feet (0.2 acre) and the single-family dwelling size is 2,299 square-feet with an attached 545 two-car garage.

Construction Phase - The project site is a vacant hillside property without any buildings or structures. As a result, zero days of demolition is provided within this air quality model.

Demolition - Vacant site. Zero square-footage of building or structure demolition.

Grading -

Energy Use -

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	11/17/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	11/3/2021	11/2/2021
tblConstructionPhase	PhaseEndDate	6/11/2021	6/9/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/15/2021
tblConstructionPhase	PhaseEndDate	11/10/2021	11/9/2021
tblConstructionPhase	PhaseEndDate	6/14/2021	6/11/2021
tblConstructionPhase	PhaseStartDate	11/11/2021	11/10/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	6/16/2021
tblConstructionPhase	PhaseStartDate	5/31/2021	6/10/2021
tblConstructionPhase	PhaseStartDate	6/15/2021	6/12/2021
tblConstructionPhase	PhaseStartDate	11/4/2021	11/3/2021
tblConstructionPhase	PhaseStartDate	6/12/2021	6/11/2021
tblGrading	MaterialExported	0.00	1,058.00
tblLandUse	LandUseSquareFeet	1,800.00	2,844.00
tblLandUse	LotAcreage	0.32	0.20

## 2.0 Emissions Summary

---

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

## 2.1 Overall Construction

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0519	0.4495	0.4015	6.8000e-004	2.8400e-003	0.0241	0.0270	9.3000e-004	0.0222	0.0232	0.0000	60.0957	60.0957	0.0176	0.0000	60.5360
Maximum	0.0519	0.4495	0.4015	6.8000e-004	2.8400e-003	0.0241	0.0270	9.3000e-004	0.0222	0.0232	0.0000	60.0957	60.0957	0.0176	0.0000	60.5360

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0519	0.4495	0.4015	6.8000e-004	2.8400e-003	0.0241	0.0270	9.3000e-004	0.0222	0.0232	0.0000	60.0957	60.0957	0.0176	0.0000	60.5359
Maximum	0.0519	0.4495	0.4015	6.8000e-004	2.8400e-003	0.0241	0.0270	9.3000e-004	0.0222	0.0232	0.0000	60.0957	60.0957	0.0176	0.0000	60.5359

[illegible]

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-31-2021	8-30-2021	0.2785	0.2785
2	8-31-2021	9-30-2021	0.0970	0.0970
		Highest	0.2785	0.2785

## 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	0.0148	3.8000e-004	0.0167	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2210	0.3272	3.3000e-004	1.0000e-005	0.3377
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.0379	6.0379	1.4000e-004	5.0000e-005	6.0559
Mobile	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0123	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4100e-003	0.0000	14.0568	14.0568	7.5000e-004	0.0000	14.0756
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>	<b>0.0181</b>	<b>0.0181</b>	<b>0.0613</b>	<b>1.8000e-004</b>	<b>0.0123</b>	<b>1.2400e-003</b>	<b>0.0135</b>	<b>3.2800e-003</b>	<b>1.2300e-003</b>	<b>4.5200e-003</b>	<b>0.3766</b>	<b>21.0423</b>	<b>21.4189</b>	<b>0.0181</b>	<b>1.1000e-004</b>	<b>21.9046</b>

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0148	3.8000e-004	0.0167	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2210	0.3272	3.3000e-004	1.0000e-005	0.3377
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.0379	6.0379	1.4000e-004	5.0000e-005	6.0559
Mobile	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0123	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4100e-003	0.0000	14.0568	14.0568	7.5000e-004	0.0000	14.0756
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>	<b>0.0181</b>	<b>0.0181</b>	<b>0.0613</b>	<b>1.8000e-004</b>	<b>0.0123</b>	<b>1.2400e-003</b>	<b>0.0135</b>	<b>3.2800e-003</b>	<b>1.2300e-003</b>	<b>4.5200e-003</b>	<b>0.3766</b>	<b>21.0423</b>	<b>21.4189</b>	<b>0.0181</b>	<b>1.1000e-004</b>	<b>21.9046</b>

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

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

## 1248 Corona Drive (Single-family Residence) - 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	6/10/2021	6/9/2021	5	10	
2	Site Preparation	Site Preparation	6/11/2021	6/11/2021	5	1	
3	Grading	Grading	6/12/2021	6/15/2021	5	2	
4	Building Construction	Building Construction	6/16/2021	11/2/2021	5	100	
5	Paving	Paving	11/3/2021	11/9/2021	5	5	
6	Architectural Coating	Architectural Coating	11/10/2021	11/16/2021	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 5,759; Residential Outdoor: 1,920; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**



## 1248 Corona Drive (Single-family Residence) - 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	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2021

### Unmitigated Construction On-Site

[illegible]

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

### 3.2 Demolition - 2021

### Unmitigated Construction Off-Site

[illegible]

### Mitigated Construction On-Site

[illegible]

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

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

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-004	3.9100e-003	2.0100e-003	0.0000		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>3.2000e-004</b>	<b>3.9100e-003</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.5000e-004</b>	<b>4.2000e-004</b>	<b>3.0000e-005</b>	<b>1.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4276</b>	<b>0.4276</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0247	0.0247	0.0000	0.0000	0.0247
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0247</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-004	3.9100e-003	2.0100e-003	0.0000		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>3.2000e-004</b>	<b>3.9100e-003</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.5000e-004</b>	<b>4.2000e-004</b>	<b>3.0000e-005</b>	<b>1.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4276</b>	<b>0.4276</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0247	0.0247	0.0000	0.0000	0.0247
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0247</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1000e-004	0.0000	8.1000e-004	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-004	7.2500e-003	7.5700e-003	1.0000e-005		4.1000e-004	4.1000e-004		3.9000e-004	3.9000e-004	0.0000	1.0409	1.0409	1.9000e-004	0.0000	1.0458
<b>Total</b>	<b>8.0000e-004</b>	<b>7.2500e-003</b>	<b>7.5700e-003</b>	<b>1.0000e-005</b>	<b>8.1000e-004</b>	<b>4.1000e-004</b>	<b>1.2200e-003</b>	<b>4.2000e-004</b>	<b>3.9000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>1.0409</b>	<b>1.0409</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.0458</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0183	4.2600e-003	5.0000e-005	1.1300e-003	5.0000e-005	1.1900e-003	3.1000e-004	5.0000e-005	3.6000e-004	0.0000	5.0312	5.0312	3.5000e-004	0.0000	5.0399
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0989	0.0989	0.0000	0.0000	0.0990
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0183</b>	<b>4.6400e-003</b>	<b>5.0000e-005</b>	<b>1.2400e-003</b>	<b>5.0000e-005</b>	<b>1.3000e-003</b>	<b>3.4000e-004</b>	<b>5.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.1301</b>	<b>5.1301</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>5.1389</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1000e-004	0.0000	8.1000e-004	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-004	7.2500e-003	7.5700e-003	1.0000e-005		4.1000e-004	4.1000e-004		3.9000e-004	3.9000e-004	0.0000	1.0409	1.0409	1.9000e-004	0.0000	1.0458
<b>Total</b>	<b>8.0000e-004</b>	<b>7.2500e-003</b>	<b>7.5700e-003</b>	<b>1.0000e-005</b>	<b>8.1000e-004</b>	<b>4.1000e-004</b>	<b>1.2200e-003</b>	<b>4.2000e-004</b>	<b>3.9000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>1.0409</b>	<b>1.0409</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.0458</b>

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0183	4.2600e-003	5.0000e-005	1.1300e-003	5.0000e-005	1.1900e-003	3.1000e-004	5.0000e-005	3.6000e-004	0.0000	5.0312	5.0312	3.5000e-004	0.0000	5.0399
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0989	0.0989	0.0000	0.0000	0.0990
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0183</b>	<b>4.6400e-003</b>	<b>5.0000e-005</b>	<b>1.2400e-003</b>	<b>5.0000e-005</b>	<b>1.3000e-003</b>	<b>3.4000e-004</b>	<b>5.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.1301</b>	<b>5.1301</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>5.1389</b>

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0388	0.3993	0.3632	5.7000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	50.0410	50.0410	0.0162	0.0000	50.4456
<b>Total</b>	<b>0.0388</b>	<b>0.3993</b>	<b>0.3632</b>	<b>5.7000e-004</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>50.0410</b>	<b>50.0410</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4456</b>



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2021****Unmitigated Construction Off-Site**

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0388	0.3993	0.3632	5.7000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	50.0410	50.0410	0.0162	0.0000	50.4456
<b>Total</b>	<b>0.0388</b>	<b>0.3993</b>	<b>0.3632</b>	<b>5.7000e-004</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>50.0410</b>	<b>50.0410</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.4456</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2021****Mitigated Construction Off-Site**

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

**3.6 Paving - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8000e-003	0.0168	0.0177	3.0000e-005		8.8000e-004	8.8000e-004		8.2000e-004	8.2000e-004	0.0000	2.3481	2.3481	6.8000e-004	0.0000	2.3652
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>1.8000e-003</b>	<b>0.0168</b>	<b>0.0177</b>	<b>3.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.3481</b>	<b>2.3481</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3652</b>

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
<b>Total</b>	<b>1.9000e-004</b>	<b>1.5000e-004</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4450</b>	<b>0.4450</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4453</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8000e-003	0.0168	0.0177	3.0000e-005		8.8000e-004	8.8000e-004		8.2000e-004	8.2000e-004	0.0000	2.3481	2.3481	6.8000e-004	0.0000	2.3652
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>1.8000e-003</b>	<b>0.0168</b>	<b>0.0177</b>	<b>3.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.3481</b>	<b>2.3481</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3652</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**3.6 Paving - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
<b>Total</b>	<b>1.9000e-004</b>	<b>1.5000e-004</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4450</b>	<b>0.4450</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4453</b>

**3.7 Architectural Coating - 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					
Archit. Coating	8.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>9.4500e-003</b>	<b>3.8200e-003</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2021****Unmitigated Construction Off-Site**

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>9.4500e-003</b>	<b>3.8200e-003</b>	<b>4.5400e-003</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2021****Mitigated Construction Off-Site**

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

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

## 1248 Corona Drive (Single-family Residence) - 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	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0123	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4100e-003	0.0000	14.0568	14.0568	7.5000e-004	0.0000	14.0756
Unmitigated	3.1700e-003	0.0164	0.0441	1.5000e-004	0.0123	1.3000e-004	0.0124	3.2800e-003	1.2000e-004	3.4100e-003	0.0000	14.0568	14.0568	7.5000e-004	0.0000	14.0756

## 4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	9.52	9.91	8.62	32,282	32,282

## 4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

## 5.0 Energy Detail

Historical Energy Use: N

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5717	4.5717	1.1000e-004	2.0000e-005	4.5811
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.5717	4.5717	1.1000e-004	2.0000e-005	4.5811
NaturalGas Mitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
NaturalGas Unmitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749

**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					
Single Family Housing	27474.6	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4662</b>	<b>1.4662</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4749</b>



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	27474.6	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4662</b>	<b>1.4662</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4749</b>

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8208.29	4.5717	1.1000e-004	2.0000e-005	4.5811
<b>Total</b>		<b>4.5717</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>4.5811</b>

1248 Corona Drive (Single-family Residence) - 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			
Single Family Housing	8208.29	4.5717	1.1000e-004	2.0000e-005	4.5811
<b>Total</b>		<b>4.5717</b>	<b>1.1000e-004</b>	<b>2.0000e-005</b>	<b>4.5811</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0148	3.8000e-004	0.0167	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2210	0.3272	3.3000e-004	1.0000e-005	0.3377
Unmitigated	0.0148	3.8000e-004	0.0167	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2210	0.3272	3.3000e-004	1.0000e-005	0.3377

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**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	8.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2800e-003	2.6000e-004	6.3600e-003	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.1062	0.2041	0.3103	3.2000e-004	1.0000e-005	0.3204
Landscaping	3.1000e-004	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.0148</b>	<b>3.8000e-004</b>	<b>0.0167</b>	<b>2.0000e-005</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.1062</b>	<b>0.2210</b>	<b>0.3272</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.3377</b>

1248 Corona Drive (Single-family Residence) - 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	8.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0103					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2800e-003	2.6000e-004	6.3600e-003	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.1062	0.2041	0.3103	3.2000e-004	1.0000e-005	0.3204
Landscaping	3.1000e-004	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.0148</b>	<b>3.8000e-004</b>	<b>0.0167</b>	<b>2.0000e-005</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>		<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.1062</b>	<b>0.2210</b>	<b>0.3272</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.3377</b>

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

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7474	2.1400e-003	5.0000e-005	0.8169
Unmitigated	0.7474	2.1400e-003	5.0000e-005	0.8169

## 7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>		<b>0.7474</b>	<b>2.1400e-003</b>	<b>5.0000e-005</b>	<b>0.8169</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
<b>Total</b>		<b>0.7474</b>	<b>2.1400e-003</b>	<b>5.0000e-005</b>	<b>0.8169</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2497	0.0148	0.0000	0.6186
Unmitigated	0.2497	0.0148	0.0000	0.6186

1248 Corona Drive (Single-family Residence) - 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			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**9.0 Operational Offroad**

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

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Annual

## 10.0 Stationary Equipment

---

### Fire Pumps and Emergency Generators

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

### Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

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

## 11.0 Vegetation

---



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**1248 Corona Drive (Single-family Residence)**  
**Los Angeles-South Coast County, Winter**

## 1.0 Project Characteristics

---

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.20	2,844.00	3

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Two-story, 2,299 square-foot single-family dwelling w/ a 545 square-foot two-car garage on a 8,889 square-foot lot. Total export of 1,058 cubic yards of soil.

Land Use - Parcel size is 8,889 square-feet (0.2 acre) and the single-family dwelling size is 2,299 square-feet with an attached 545 two-car garage.

Construction Phase - The project site is a vacant hillside property without any buildings or structures. As a result, zero days of demolition is provided within this air quality model.

Demolition - Vacant site. Zero square-footage of building or structure demolition.

Grading -

Energy Use -

## 1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	11/17/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	11/3/2021	11/2/2021
tblConstructionPhase	PhaseEndDate	6/11/2021	6/9/2021
tblConstructionPhase	PhaseEndDate	6/16/2021	6/15/2021
tblConstructionPhase	PhaseEndDate	11/10/2021	11/9/2021
tblConstructionPhase	PhaseEndDate	6/14/2021	6/11/2021
tblConstructionPhase	PhaseStartDate	11/11/2021	11/10/2021
tblConstructionPhase	PhaseStartDate	6/17/2021	6/16/2021
tblConstructionPhase	PhaseStartDate	5/31/2021	6/10/2021
tblConstructionPhase	PhaseStartDate	6/15/2021	6/12/2021
tblConstructionPhase	PhaseStartDate	11/4/2021	11/3/2021
tblConstructionPhase	PhaseStartDate	6/12/2021	6/11/2021
tblGrading	MaterialExported	0.00	1,058.00
tblLandUse	LandUseSquareFeet	1,800.00	2,844.00
tblLandUse	LotAcreage	0.32	0.20

## 2.0 Emissions Summary

---

1248 Corona Drive (Single-family Residence) - 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	3.7781	25.2066	12.3391	0.0637	2.0784	0.4634	2.5418	0.7688	0.4422	1.2110	0.0000	6,744.4273	6,744.4273	0.6095	0.0000	6,759.6644
Maximum	3.7781	25.2066	12.3391	0.0637	2.0784	0.4634	2.5418	0.7688	0.4422	1.2110	0.0000	6,744.4273	6,744.4273	0.6095	0.0000	6,759.6644

### 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	3.7781	25.2066	12.3391	0.0637	2.0784	0.4634	2.5418	0.7688	0.4422	1.2110	0.0000	6,744.4273	6,744.4273	0.6095	0.0000	6,759.6644
Maximum	3.7781	25.2066	12.3391	0.0637	2.0784	0.4634	2.5418	0.7688	0.4422	1.2110	0.0000	6,744.4273	6,744.4273	0.6095	0.0000	6,759.6644

[illegible]

1248 Corona Drive (Single-family Residence) - 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	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
Mobile	0.0187	0.0929	0.2504	8.7000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		88.0750	88.0750	4.7800e-003		88.1946
<b>Total</b>	<b>0.3452</b>	<b>0.1216</b>	<b>0.8446</b>	<b>2.2100e-003</b>	<b>0.0720</b>	<b>0.0782</b>	<b>0.1502</b>	<b>0.0193</b>	<b>0.0781</b>	<b>0.0974</b>	<b>9.3669</b>	<b>115.0791</b>	<b>124.4461</b>	<b>0.0330</b>	<b>8.0000e-004</b>	<b>125.5097</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	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
Mobile	0.0187	0.0929	0.2504	8.7000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		88.0750	88.0750	4.7800e-003		88.1946
<b>Total</b>	<b>0.3452</b>	<b>0.1216</b>	<b>0.8446</b>	<b>2.2100e-003</b>	<b>0.0720</b>	<b>0.0782</b>	<b>0.1502</b>	<b>0.0193</b>	<b>0.0781</b>	<b>0.0974</b>	<b>9.3669</b>	<b>115.0791</b>	<b>124.4461</b>	<b>0.0330</b>	<b>8.0000e-004</b>	<b>125.5097</b>

1248 Corona Drive (Single-family Residence) - 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	6/10/2021	6/9/2021	5	10	
2	Site Preparation	Site Preparation	6/11/2021	6/11/2021	5	1	
3	Grading	Grading	6/12/2021	6/15/2021	5	2	
4	Building Construction	Building Construction	6/16/2021	11/2/2021	5	100	
5	Paving	Paving	11/3/2021	11/9/2021	5	5	
6	Architectural Coating	Architectural Coating	11/10/2021	11/16/2021	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 5,759; Residential Outdoor: 1,920; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## 1248 Corona Drive (Single-family Residence) - 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	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2021

### Unmitigated Construction On-Site

[illegible]

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

### 3.2 Demolition - 2021

### Unmitigated Construction Off-Site

[illegible]

### Mitigated Construction On-Site

[illegible]



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2995</b>	<b>0.8297</b>	<b>0.0573</b>	<b>0.2755</b>	<b>0.3328</b>		<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.0238</b>	<b>0.0163</b>	<b>0.1841</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>53.6126</b>	<b>53.6126</b>	<b>1.5800e-003</b>		<b>53.6520</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2995</b>	<b>0.8297</b>	<b>0.0573</b>	<b>0.2755</b>	<b>0.3328</b>	<b>0.0000</b>	<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
<b>Total</b>	<b>0.0238</b>	<b>0.0163</b>	<b>0.1841</b>	<b>5.4000e-004</b>	<b>0.0559</b>	<b>4.5000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.2000e-004</b>	<b>0.0152</b>		<b>53.6126</b>	<b>53.6126</b>	<b>1.5800e-003</b>		<b>53.6520</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8126	0.0000	0.8126	0.4228	0.0000	0.4228			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
<b>Total</b>	<b>0.7965</b>	<b>7.2530</b>	<b>7.5691</b>	<b>0.0120</b>	<b>0.8126</b>	<b>0.4073</b>	<b>1.2199</b>	<b>0.4228</b>	<b>0.3886</b>	<b>0.8114</b>		<b>1,147.4338</b>	<b>1,147.4338</b>	<b>0.2138</b>		<b>1,152.7797</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5636	17.9209	4.4018	0.0506	1.1540	0.0552	1.2092	0.3163	0.0528	0.3691		5,489.768 4	5,489.768 4	0.3925		5,499.580 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
<b>Total</b>	<b>0.6112</b>	<b>17.9536</b>	<b>4.7700</b>	<b>0.0517</b>	<b>1.2658</b>	<b>0.0561</b>	<b>1.3219</b>	<b>0.3460</b>	<b>0.0536</b>	<b>0.3996</b>		<b>5,596.993 6</b>	<b>5,596.993 6</b>	<b>0.3957</b>		<b>5,606.884 7</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8126	0.0000	0.8126	0.4228	0.0000	0.4228			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.433 8	1,147.433 8	0.2138		1,152.779 7
<b>Total</b>	<b>0.7965</b>	<b>7.2530</b>	<b>7.5691</b>	<b>0.0120</b>	<b>0.8126</b>	<b>0.4073</b>	<b>1.2199</b>	<b>0.4228</b>	<b>0.3886</b>	<b>0.8114</b>	<b>0.0000</b>	<b>1,147.433 8</b>	<b>1,147.433 8</b>	<b>0.2138</b>		<b>1,152.779 7</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5636	17.9209	4.4018	0.0506	1.1540	0.0552	1.2092	0.3163	0.0528	0.3691		5,489.768 4	5,489.768 4	0.3925		5,499.580 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
<b>Total</b>	<b>0.6112</b>	<b>17.9536</b>	<b>4.7700</b>	<b>0.0517</b>	<b>1.2658</b>	<b>0.0561</b>	<b>1.3219</b>	<b>0.3460</b>	<b>0.0536</b>	<b>0.3996</b>		<b>5,596.993 6</b>	<b>5,596.993 6</b>	<b>0.3957</b>		<b>5,606.884 7</b>

**3.5 Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.215 8	1,103.215 8	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>		<b>1,103.215 8</b>	<b>1,103.215 8</b>	<b>0.3568</b>		<b>1,112.135 8</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>	<b>0.0000</b>	<b>1,103.2158</b>	<b>1,103.2158</b>	<b>0.3568</b>		<b>1,112.1358</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.6 Paving - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286		1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7214</b>	<b>6.7178</b>	<b>7.0899</b>	<b>0.0113</b>		<b>0.3534</b>	<b>0.3534</b>		<b>0.3286</b>	<b>0.3286</b>		<b>1,035.3425</b>	<b>1,035.3425</b>	<b>0.3016</b>		<b>1,042.8818</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
<b>Total</b>	<b>0.0858</b>	<b>0.0587</b>	<b>0.6629</b>	<b>1.9400e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>193.0052</b>	<b>193.0052</b>	<b>5.6800e-003</b>		<b>193.1472</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7214	6.7178	7.0899	0.0113		0.3534	0.3534		0.3286	0.3286	0.0000	1,035.3425	1,035.3425	0.3016		1,042.8818
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7214</b>	<b>6.7178</b>	<b>7.0899</b>	<b>0.0113</b>		<b>0.3534</b>	<b>0.3534</b>		<b>0.3286</b>	<b>0.3286</b>	<b>0.0000</b>	<b>1,035.3425</b>	<b>1,035.3425</b>	<b>0.3016</b>		<b>1,042.8818</b>



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**3.6 Paving - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
<b>Total</b>	<b>0.0858</b>	<b>0.0587</b>	<b>0.6629</b>	<b>1.9400e-003</b>	<b>0.2012</b>	<b>1.6300e-003</b>	<b>0.2028</b>	<b>0.0534</b>	<b>1.5000e-003</b>	<b>0.0549</b>		<b>193.0052</b>	<b>193.0052</b>	<b>5.6800e-003</b>		<b>193.1472</b>

**3.7 Architectural Coating - 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					
Archit. Coating	3.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>3.7781</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2021****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.5592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>3.7781</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2021****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

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

## 1248 Corona Drive (Single-family Residence) - 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	0.0187	0.0929	0.2504	8.7000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		88.0750	88.0750	4.7800e-003		88.1946
Unmitigated	0.0187	0.0929	0.2504	8.7000e-004	0.0720	7.5000e-004	0.0728	0.0193	7.0000e-004	0.0200		88.0750	88.0750	4.7800e-003		88.1946

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	9.52	9.91	8.62	32,282	32,282

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

## 5.0 Energy Detail

---

Historical Energy Use: N

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
NaturalGas Unmitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083

**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					
Single Family Housing	75.2728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.0752728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069
Unmitigated	0.3257	0.0217	0.5912	1.3000e-003		0.0768	0.0768		0.0768	0.0768	9.3669	18.1486	27.5155	0.0281	6.4000e-004	28.4069

1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**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	4.8800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764	9.3669	18.0000	27.3669	0.0279	6.4000e-004	28.2547
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.3257</b>	<b>0.0217</b>	<b>0.5912</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</b>	<b>9.3669</b>	<b>18.1486</b>	<b>27.5155</b>	<b>0.0281</b>	<b>6.4000e-004</b>	<b>28.4069</b>

1248 Corona Drive (Single-family Residence) - 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	4.8800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2620	0.0208	0.5086	1.3000e-003		0.0764	0.0764		0.0764	0.0764	9.3669	18.0000	27.3669	0.0279	6.4000e-004	28.2547
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.3257</b>	<b>0.0217</b>	<b>0.5912</b>	<b>1.3000e-003</b>		<b>0.0769</b>	<b>0.0769</b>		<b>0.0769</b>	<b>0.0769</b>	<b>9.3669</b>	<b>18.1486</b>	<b>27.5155</b>	<b>0.0281</b>	<b>6.4000e-004</b>	<b>28.4069</b>

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

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

**10.0 Stationary Equipment**



1248 Corona Drive (Single-family Residence) - Los Angeles-South Coast County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

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

**11.0 Vegetation**

---