



ADDENDUM TO AN ADOPTED MITIGATED NEGATIVE DECLARATION

The City of Sacramento, California, a municipal corporation, does hereby prepare, make declare, and publish the Addendum to a certified Mitigated Negative Declaration for the following described project:

Project Name and Number: Tanzanite Project (P20-009)

Original Project: Natomas Crossing – Area 3 (P01-028)

The City of Sacramento, Community Development Department, has reviewed the proposed project and on the basis of the whole record before it, has determined that there is no substantial evidence that the project, as identified in this Addendum, would have a significant effect on the environment beyond that which was evaluated in the Natomas Crossing – Area 3 Mitigated Negative Declaration. A Subsequent Mitigated Negative Declaration is not required pursuant to the California Environmental Quality Act of 1970 (Sections 21000, et. Seq., Public Resources Code of the State of California).

This Addendum to the Natomas Crossing – Area 3 Mitigated Negative Declaration has been prepared pursuant to Title 14, Section 15164 of the California Code of Regulations; the Sacramento Local Environmental Regulations (Resolution 91-892) adopted by the City of Sacramento.

A copy of this document and all supportive documentation may be reviewed or obtained at the City of Sacramento, Community Development Department, Planning Division, 300 Richards Boulevard, Sacramento, California 95811.

Environmental Services Manager, City of Sacramento,
California, a municipal corporation

By: _____

Date: _____

Tanzanite Project (P20-009)
Addendum to the Natomas Crossing – Area 3 Mitigated Negative Declaration

File Number/Project Name: Tanzanite Project (P20-009)

Project Location and Surrounding Land Uses: The proposed project site consists of 18.1 acres located between East Commerce Way and Airport Road, at Tanzanite Avenue, in Sacramento, California (see Figure 1 and Figure 2). The site is located within the planning area of the Natomas Crossing Planned Unit Development (PUD). Specifically, the Tanzanite Project site is located within Quadrant D of the previously approved Natomas Crossing – Area 3 Project. The project site is identified by Assessor Parcel Number (APN) 225-0180-062.

The site is bounded by Airport Road to the east, single-family residences to the north and northeast, open space to the west, and the Tanzanite Community Park to the east. The land to the south of the project site is currently vacant, beyond which is an area currently developed with commercial buildings, including Mastec Telecommunications and Global Machinery West. Interstate 5 is located approximately 1,000 feet to the west of the project site.

Setting: The City of Sacramento 2035 General Plan designates the project site as Planned Development, and the site is designated Medium Density Residential (MD) per the 2009 Amendment to the Natomas Crossing PUD (Resolution No. 2009-534). The project site is zoned Single Unit or Duplex Dwelling (R-1A PUD). Currently, the site is vacant.

Project Background: In May of 2002, the City of Sacramento approved an Initial Study/Mitigated Negative Declaration (IS/MND) for the Natomas Crossing – Area 3 Project (approved project), located on 298.5 acres within the North Natomas Community Plan. The approved project consisted of several entitlements to reconfigure the existing land use and zoning designations, as well as the construction and operation of a 152,000 square foot (sf) office building for Catholic Healthcare West, now called Dignity Health. Approval of the project required the following entitlements:

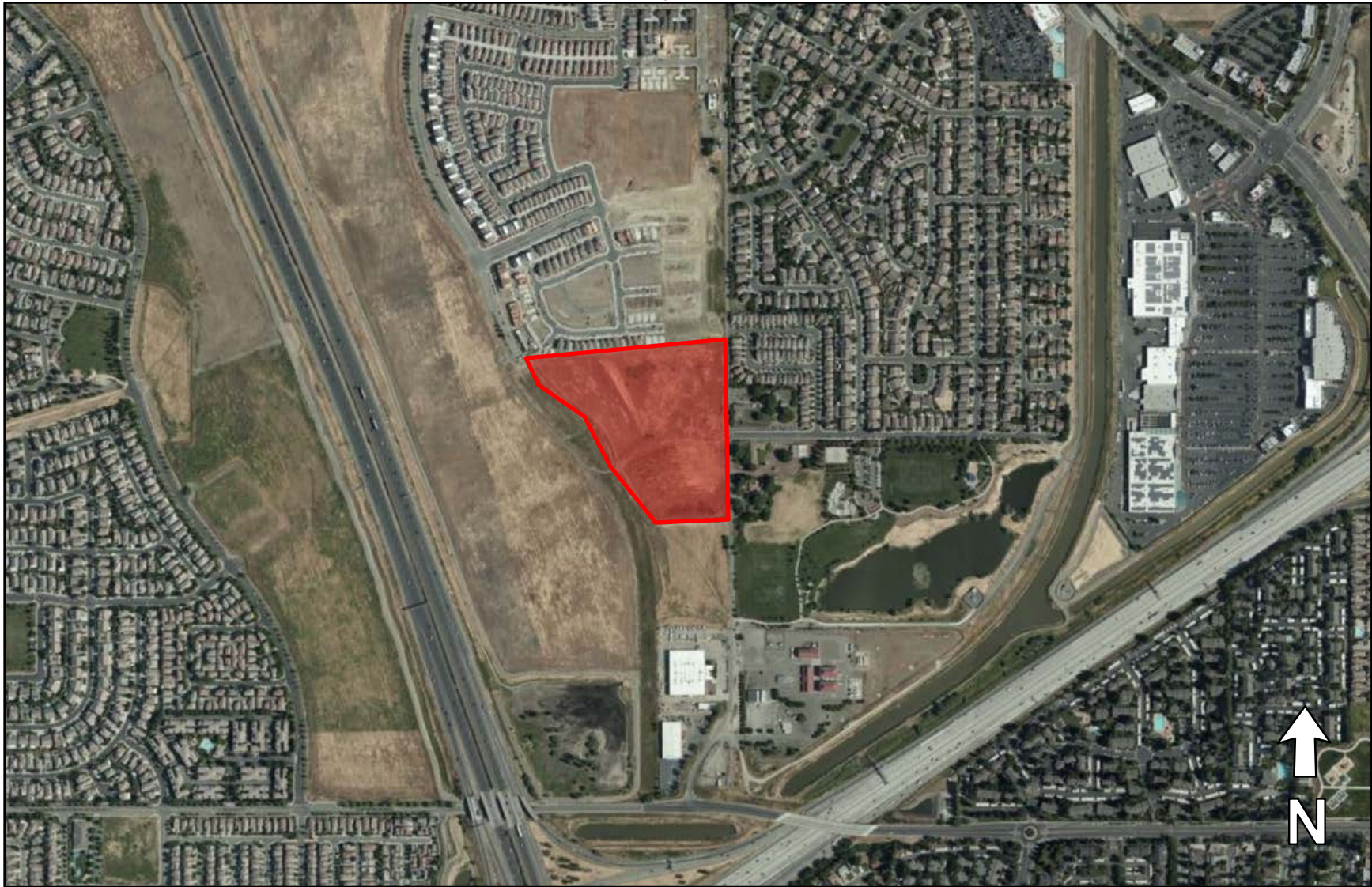
- Community Plan Amendment;
- Rezone;
- PUD Design Guideline Amendment;
- PUD Schematic Plan;
- Tentative Master Parcel Map;
- Tentative Subdivision Map;
- Special Permit for construction of a 152,000-sf office building;
- Special Permit to exceed maximum parking allowance; and
- Lot Line Adjustment/Merger.

The City of Sacramento determined that the Natomas Crossing – Area 3 Project, with implementation of the mitigation measures identified in the 2002 IS/MND, would not have a significant environmental effect. The 2002 IS/MND analyzed buildout of the entire Natomas Crossing Area, including the Tanzanite Project site with 319 single-family residential units and associated improvements. As such, the proposed project would result in a reduced development intensity relative to what was previously analyzed.

Figure 1
Regional Vicinity Map



Figure 2
Project Site



Over the past several years, the State of California has enacted multiple pieces of legislation to address the State-wide housing shortage. Assembly Bill (AB) 2299, approved in 2016, mandates that accessory dwelling units (ADUs, also known as secondary housing units), defined as, “an attached or a detached residential dwelling unit which provides complete independent living facilities for one or more persons”, shall be allowed in single-family and multifamily residential zones. Item (8) under Section 1 of the Bill notes that ADUs, contingent upon compliance with the applicable standards, shall not be considered to exceed the allowable density for the lot upon which it is located, and shall not be considered in the application of any local ordinance, policy, or program that exists to limit residential growth. As a result of AB 2299, the City of Sacramento Zoning Code has been updated to allow for construction of ADUs on lots zoned R-1A, subject to the regulations established by Section 17.228.105 of the Zoning Code. As such, ADUs are an allowed use on each of the proposed residential lots.

Project Description: The proposed project would include the subdivision of the 18.1-acre project site into 138 medium density residential lots, with a minimum lot size of 2,600 sf, and the subsequent construction of 128 halfplex units and seven single-family units. Consistent with Section 17.228.105 of the Sacramento City Code, the proposed project has been revised to also include the construction of 73 secondary dwelling units/ADUs associated with the proposed single-family units. The 73 ADUs were not previously analyzed as part of the adopted 2002 IS/MND. In addition, the subdivision would include two common area lots. The project would include construction of one public road, a private road, private alleys, and multiple landscape lots (see Figure 3). A homeowner’s association (HOA) would maintain the clubhouse and common areas, homes, front yards, private streets, and alleys.

Per Section 17.228.105 of the Sacramento City Code, secondary dwelling units are not included in residential density calculations. As such, the project density would be 9.1 dwelling units per acre, and would remain consistent with the General Plan land use and zoning designations for the site.

The following sections provide an overview of the proposed project components.

Proposed Residences

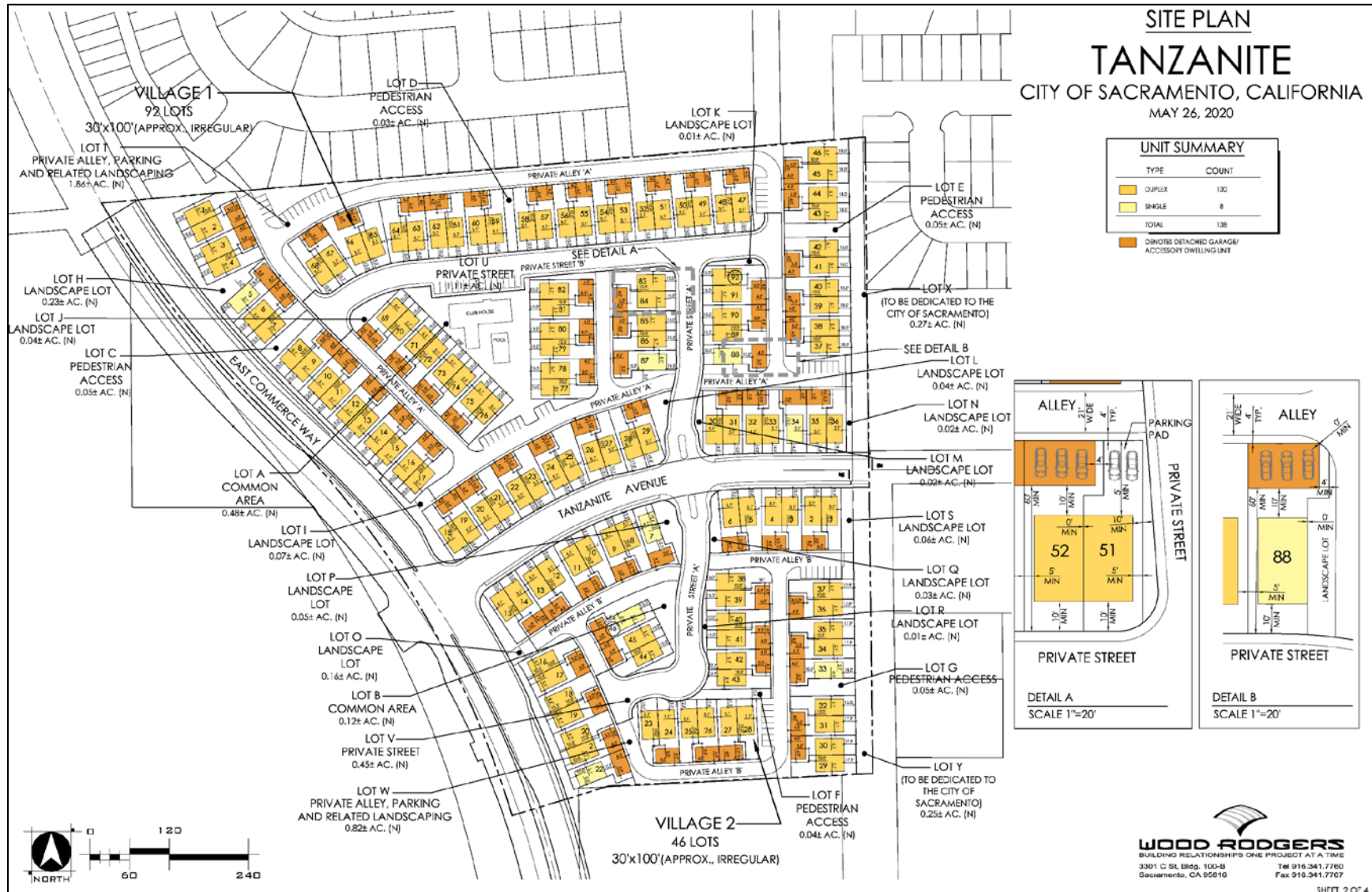
Each of the proposed halfplexes would include one single-story unit, and one two-story unit. The single-story units would be approximately 1,000 sf, and include two bedrooms. The two-story units would be approximately 1,530 sf and include three bedrooms and a roof deck. The ADUs would be an approximately 720-sf one-bedroom unit, and would be located above a three-car garage. The single-family units would range from 1,525 to 1,625 sf. All building exteriors would consist of stucco and fiber cement in natural earth tones.

Circulation, Site Access, and Parking

As part of the proposed project, Tanzanite Avenue would be extended through the central portion of the project site, and access to the site would be provided at the intersections of Tanzanite Avenue and East Commerce Way to the west, and Tanzanite Avenue to the east. Airport Road, a private road which extends along the inside edge of the eastern site boundary, is intended to be dedicated to the City of Sacramento as a recreational easement as part of the proposed project. Airport Road is anticipated for future conversion to a parkway/bike path by the City, but would not be improved as part of the proposed project. South of Tanzanite Avenue, Airport Road will remain in the current configuration, in order to continue to allow vehicle access to properties along the roadway.

Bike lanes and sidewalks currently exist along East Commerce Way, to the northwest of the project site. Seven pedestrian access points would be included as part of the proposed project to provide access to the project site from the west, north, and east perimeters.

Figure 3
Site Plan



In addition, the proposed project would include new bike lanes along both sides of Tanzanite Avenue within the project site. The proposed circulation improvements are generally consistent with what was analyzed for the project site per the 2002 IS/MND.

The proposed project would include 404 total off-street parking spaces, comprised of 219 covered spaces in individual garages, 120 uncovered spaces on-lot, and 65 spaces in guest parking lots. Thus, 2.9 off-street parking spaces per residential lot would be provided. In addition, parking would be available along private streets within the site. The proposed parking configuration would be consistent with the requirements of the Sacramento City Code.

Landscaping and Outdoor Common Areas

The proposed project would include landscaping elements along the frontages of all residences, including street trees, shrubs, and groundcover. All selected plant species require either low or medium water use. In addition, Lots H through S, totaling 0.76-acre, would be reserved as landscaped lots.

Two common areas would be provided within the proposed neighborhood (Lots A and B). Lot A would include a clubhouse, pool, outdoor dining, lounge, fire pit area, and outdoor yoga and exercise programming. The smaller of the two common area lots (Lot B) would include tree-shaded seating areas. The common area lots would total 0.60-acre.

Utilities

Water supplies would be provided to the project site by the City of Sacramento. The City of Sacramento uses surface water from the Sacramento and American Rivers, and groundwater pumped from the North American and South American sub-basins to meet the City's water demands. Upon development of the proposed project, water would be provided by way of new connections to the existing 12-inch public water mains located in Tanzanite Avenue and a planned water main in East Commerce Way. A water study will be done to determine the size of new water connections. Wastewater service at the proposed project site would be provided by the Sacramento Regional Sanitation District. Wastewater would be directed to the planned eight-inch sewer main within East Commerce Way. Natural gas would be provided by Pacific Gas & Electric (PG&E), and electricity would be provided by SMUD.

The proposed project would include development of an on-site storm drainage system to capture stormwater runoff from impervious surfaces. The natural grade within the site would route stormwater to a series of new underground 12-inch and 15-inch stormwater pipes. All runoff would be routed to the planned 36-inch stormwater line within East Commerce way. Treatment of stormwater runoff from the project site would be provided by an existing off-site detention basin. The City requires preparation of a project-specific drainage study meeting the criteria specified in the current Design and Procedures Manual, for review and approval by the Department of Utilities, concurrent to the first submittal of the off-site improvement plans.

Project Approvals

The proposed project would require the following entitlements from the City of Sacramento:

- Approval of a Tentative Subdivision Map; and
- Site Plan and Design Review.

Rationale for Preparation of the Addendum

In determining whether an addendum is the appropriate document to analyze the modifications to the project and its approval, State CEQA Guidelines Section 15164 (Addendum to an EIR or Negative Declaration) states:

- (a) The lead agency or a responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred.
- (b) An addendum to an adopted negative declaration may be prepared if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred.
- (c) An addendum need not be circulated for public review but can be included in or attached to the final EIR or adopted negative declaration.
- (d) The decision-making body shall consider the addendum with the final EIR or adopted negative declaration prior to making a decision on the project.
- (e) A brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's required findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence.

New significant effects or other grounds require preparation of a subsequent Mitigated Negative Declaration in support of further agency action on a project pursuant to Public Resources Code Section 21166 and State CEQA Guidelines Sections 15162 and 15163. Under the guidelines, a subsequent or supplemental EIR or Mitigated Negative Declaration shall be prepared if any of the following criteria are met:

- (a) When an EIR has been certified or negative declaration adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:
 - (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
 - (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
 - (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:
 - (A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
 - (B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

- (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
- (D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Use of a Prior Environmental Document:

The California Supreme Court has held that a lead agency has the responsibility of initially deciding whether an original environmental document retains “some relevance” to the ongoing decision-making process. If it does, the lead agency moves on to determine whether the original document is adequate for CEQA purposes. The City of Sacramento has determined that the 2002 IS/MND adopted for the Natomas Crossing – Area 3 Project is relevant and has prepared an addendum to that document to evaluate the proposed project. The 18.1-acre Tanzanite Project site is contained within the original 298.5-acre site considered for the Natomas Crossing – Area 3 Project, and includes land uses that were included in the Natomas Crossing – Area 3 Project. The project discussed in this Addendum would result in similar impacts as identified in the 2002 IS/MND.

Based on the above, in accordance with Sections 15162 through 15164 of the CEQA Guidelines, the proposed neighborhood would not require major revisions of the previous 2002 IS/MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects. The analysis that follows concludes that none of the conditions identified in CEQA Guidelines Sections 15162 and 15163 apply to the proposed project. Thus, preparation of an addendum would provide the appropriate level of environmental review.

Discussion

The following sections provide discussions of any potential impacts associated with the proposed project beyond those previously identified in the 2002 IS/MND.

Air Quality

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is responsible for control of stationary and indirect-source emissions, air monitoring, and preparation of air quality attainment plans in the Sacramento County portion of the Sacramento Valley Air Basin (SVAB). Federal and State air quality standards have been established for six common air pollutants, known as criteria pollutants, because the criteria air pollutants could be detrimental to human health and the environment. The criteria pollutants include particulate matter, ground-level ozone, carbon monoxide, sulfur oxides, nitrogen oxides, and lead. At the federal level, Sacramento County is designated as severe nonattainment for the 8-hour ozone standard, nonattainment for the 24-hour PM_{2.5} standard, and attainment or unclassified for all other criteria pollutants.

Nearly all development projects in the Sacramento region have the potential to generate air pollutants that may increase the difficulty of attaining federal and State AAQS. Therefore, for most projects, evaluation of air quality impacts is required to comply with CEQA. In order to help public agencies evaluate air quality impacts,

the SMAQMD has developed the *Guide to Air Quality Assessment in Sacramento County*.¹ The SMAQMD's guide includes recommended thresholds of significance, including mass emission thresholds for construction-related and operational ozone precursors, as the area is under nonattainment for the federal and State ozone AAQS. The SMAQMD's guide also includes screening criteria for localized carbon monoxide (CO) emissions and thresholds for new stationary sources of toxic air contaminants (TACs).

The original project assessed air quality impacts under 1994 standards and conditions. On May 28, 2015, the SMAQMD Board of Directors rescinded the concentration-based thresholds for PM₁₀ and PM_{2.5} and adopted the new mass emission PM₁₀ and PM_{2.5} thresholds. The office building portion of the original project was analyzed using the URBEMIS 7G Version 5.1.0 program, and impacts were determined to be less than significant. However, the Natomas Crossing PUD portion of the original project was compared to the 1994 North Natomas Community Plan Supplemental EIR (NNCP SEIR). The 1994 NNCP SEIR concluded significant and unavoidable air quality impacts would result from buildout of the North Natomas Community Plan, and required implementation of a Transportation Systems Management Strategy and Air Quality Mitigation Strategy, as well as encourages a mixture of land uses and alternative transportation, in order to reduce air quality impacts to the maximum extent feasible. The 2002 IS/MND concluded that because the applicant would be required to comply with all regulations and mitigation measures set forth in the NNCP EIR and SEIR, a less-than-significant impact to air quality would result from the approved project.

Consistent with modern SMAQMD guidelines, in order to determine whether the proposed project would result in new or more severe impacts with consideration of new standards, the proposed project's construction-related and operational emissions have been estimated using the California Emissions Estimator Model (CalEEMod) version 2016.3.2 software. In order to quantitatively compare the two scenarios, buildout of the Tanzanite Project site per the original approved project was modeled using CalEEMod as well.

The Original Project Scenario assumes buildout of the project site under the maximum allowable density for the site. The MD designation allows up to 21 units per net acre. Assuming that Tanzanite Road would require extension through the project site under both scenarios, 15.19 acres remain for residential development. Using the maximum density for the land use designation, the project site could be developed with up to 319 residential units under the Original Project Scenario.

The Proposed Project Scenario involves modeling of the proposed project on the same 15.19 net acres, but would instead develop 138 single-family units and 73 ADUs.

A comparison of the two scenarios is presented below. If the net difference between the Original Project and Proposed Project Scenarios is negative, it is reasonable to conclude that impacts related to violating applicable air quality standards would be less severe under the proposed project than what was concluded in the 2002 IS/MND.

The estimated NO_x, ROG, PM₁₀, and PM_{2.5} emissions during both construction and operation of the Original Project Scenario, as compared to the SMAQMD air quality standards, are listed in Table 1. Estimated emissions during construction and operation of the Proposed Project Scenario are presented in Table 2. Table 3 provides a comparison of the two scenarios.

¹ Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment in Sacramento County*. May 2018. Available at: <http://www.airquality.org/Residents/CEQA-Land-Use-Planning/CEQA-Guidance-Tools>. Accessed January 2019.

Table 1				
Maximum Unmitigated Project Emissions – Original Project Scenario (lbs/day)				
Pollutant	Project Construction Emissions	Construction Thresholds	Project Operational Emissions	Operational Thresholds
NO _x	84.58	85	52.67	65
ROG	32.83	-	32.29	65
PM ₁₀	21.54	80	18.17	80
PM _{2.5}	13.04	82	5.73	82

Source: CalEEMod, April 2020 (see Appendix A).

Table 2				
Maximum Unmitigated Project Emissions – Proposed Project Scenario (lbs/day)				
Pollutant	Project Construction Emissions	Construction Thresholds	Project Operational Emissions	Operational Thresholds
NO _x	50.25	85	15.99	65
ROG	19.72	-	14.05	65
PM ₁₀	20.40	80	11.19	80
PM _{2.5}	11.99	82	3.21	82

Source: CalEEMod, April 2020 (see Appendix A).

Table 3				
Net Difference in Operational Emissions (Proposed – Original) (lbs/day)				
Pollutant	Original Project Emissions	Proposed Project Emissions	Difference in Emissions	
NO _x	52.67	15.99	-36.68	
ROG	32.29	14.05	-18.24	
PM ₁₀	18.17	11.19	-6.98	
PM _{2.5}	5.73	3.21	-2.52	

Source: CalEEMod, April 2020 (see Appendix A).

As shown in Table 3 above, the Proposed Project Scenario would result in fewer emissions than the Original Project Scenario, which was analyzed in the 2002 IS/MND.

In addition, since the analysis of the previous project, all projects under the jurisdiction of SMAQMD are required to comply with all applicable SMAQMD rules and regulations. Relevant rules include, but are not limited to, Rule 403 (Fugitive Dust), Rule 404 (Particulate Matter), and Rule 442 (Architectural Coatings). Furthermore, all projects are required to implement the SMAQMD Basic Construction Emission Control Practices (BCECP), as follows:

- Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.
- Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.
- Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).
- All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.

- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site.
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.

Compliance with SMAQMD rules and regulations and BCECP would help to minimize construction emissions.

Based on the information presented above, the proposed project would not violate any applicable air quality standards established by SMAQMD, and would result in less impacts relative to what was analyzed in the 2002 IS/MND. Therefore, the project would not result in substantially more severe impacts.

Greenhouse Gas Emissions

Emissions of greenhouse gases (GHGs) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact.

GHG emissions were not addressed in the 2002 IS/MND. However, potential impacts related to GHG emissions do not constitute "new information" as defined by CEQA, as GHG emissions were known as potential environmental issues before 1994.² Since the time the 2002 IS/MND was approved, the City has taken numerous actions towards promoting sustainability within the City, including efforts aimed at reducing GHG emissions. On February 14, 2012, the City adopted the City of Sacramento Climate Action Plan (CAP), which identified how the City and the broader community could reduce Sacramento's GHG emissions and included reduction targets, strategies, and specific actions.

In 2015, the City adopted the 2035 General Plan Update. The update incorporated measures and actions from the CAP into Appendix B, General Plan CAP Policies and Programs, of the General Plan Update. Appendix B includes all City-wide policies and programs that are supportive of reducing GHG emissions. The General Plan CAP Policies and Programs per the General Plan Update supersede the City's CAP. Rather than compliance and consistency with the CAP, all projects, including the proposed project, must now be compliant and consistent with the General Plan CAP Policies and Programs outlined in Appendix B of the General Plan Update.

In addition to the City's General Plan CAP Policies and Programs outlined in Appendix B of the General Plan Update, a number of regulations have been enacted since the 2002 IS/MND was approved for the purpose of, or with an underlying goal for, reducing GHG emissions, such as the California Green Building Standards Code (CALGreen Code) and the California Building Energy Efficiency Standards Code. According to the California Energy Commission, the 2019 Building Energy Efficiency Standards are anticipated to result in 53 percent less energy consumption for residential buildings relative to the 2016 energy standards. The proposed project would be required to comply with all applicable regulations associated with GHG emissions, including the CALGreen Code and California Building Energy Efficiency Standards Code.

² As explained in a series of cases, most recently in *Concerned Dublin Citizens v. City of Dublin* (2013) 214 Cal. App. 4th 1301. Also see, *Citizens of Responsible Equitable Development v. City of San Diego* (2011) 196 Cal.App.4th 515.

New land use or zoning designations are not proposed as part of the project, and the overall area of disturbance anticipated for buildout of the project site would not be modified. Therefore, GHG emissions associated with construction of the proposed project are expected to be similar to what was initially planned. The primary GHG emission sources that would be expected to result from the proposed project would be mobile sources from vehicle emissions, followed by energy consumption, solid waste disposal, water conveyance and treatment, and area sources, such as landscape maintenance equipment exhaust and consumer products (e.g., deodorants, cleaning products, spray paint, etc.). As described in further detail in the Transportation and Circulation section below, the proposed project would result in 1,469 fewer average daily vehicle trips than was previously anticipated for buildout of the project site per the 2002 IS/MND. Consequently, mobile source GHG emissions associated with the proposed project would be less than what was analyzed in the 2002 IS/MND.

Construction-related and operational GHG emissions associated with the proposed project were modeled using the same assumptions presented in the Air Quality section of this Addendum. As modeled, the proposed project would be anticipated to emit a maximum of 705.98 metric tons of carbon dioxide equivalent units (MTCO_{2e}) per year during construction, and 2,041.25 MTCO_{2e} per year during operation. For comparison, the original project would be anticipated to emit a maximum of 640 MTCO_{2e} per year during construction, and 5,094.65 MTCO_{2e} per year during operations. Mobile emissions are the primary contributor to operational GHG emissions, and because the original project would have a higher intensity development and more residents, mobile emissions would be substantially greater. Overall, the proposed project would result in similar GHG emissions during construction, and significantly fewer GHG emissions during operations, when compared to the original project.

The City of Sacramento does not assess potential impacts related to GHG emissions based on the basis of total emissions of GHGs. Rather, the City of Sacramento has integrated a CAP into the City's General Plan, and thus, potential impacts related to climate change from development within the City are assessed based on the project's compliance with the City's adopted General Plan CAP Policies and Programs set forth in Appendix B of the General Plan Update.

Goal LU 2.5, Policy LU 2.5.1, and Policy LU 2.7.6 require that new urban developments should be well-connected, minimize barriers between uses, and create pedestrian-scaled, walkable areas. Policy LU 2.6.1 and LU 2.6.2 were designed to promote the efficient use of land in order to reduce pollution and automobile dependence and facilitate walking, bicycling, and public transit use. The proposed project would include a network of accessible pedestrian paths throughout the project site and would connect to existing sidewalks along Tanzanite Avenue. In addition, East Commerce Way, northwest of the project site, has a marked bike lane and a separate sidewalk along both sides of the street. East Commerce Way roadway would be extended southward as part of the project, providing connectivity between the proposed residences and the existing facilities. Furthermore, a five-foot easement along Airport Road, on the eastern border of the project site, would be dedicated to the City for future development of a bicycle/pedestrian pathway.

The proposed project would be constructed in compliance with the California Building Standards Code and the CAI Green Code. Adherence to the codes would support the City's Policy U 6.1.5, which states that energy consumption per capita should be reduced as compared to the year 2005. Furthermore, Policy ER 6.1.2 directs the City to review proposed development and incorporate feasible measures that reduce construction emissions for ROG, NO_x, and other pollutants. As discussed above, emissions related to construction of the proposed project would be in compliance with SMAQMD's applicable rules and thresholds of significance and Policy ER 6.1.2.

As noted above, the proposed project would result in fewer GHG emissions relative to buildout of the Tanzanite Project site per the original project (i.e., development of the site with up to 319 units). Furthermore,

consistency with the General Plan CAP policies included in Appendix B demonstrates compliance with the City's CAP and GHG reduction goals. Because the proposed project would be consistent with the City's General Plan and would comply with all applicable standards and regulations related to GHG, including the City's General Plan CAP Policies and Programs, CALGreen Code, and California Building Energy Efficiency Standards Code, the proposed project would not result in any new or increased impacts related to GHG emissions and global climate change than what was previously anticipated for the project site. In addition, as stated above, potential impacts related to GHG emissions do not constitute new information as defined by CEQA. Thus, the proposed project would not result in any changes, new circumstances, or new information that would involve new significant impacts or substantially more severe impacts related to air quality and GHG emissions from what has been anticipated for the project site in the 2002 IS/MND.

Biological Resources

The analysis of biological resources in the 2002 IS/MND was based on a field assessment conducted by Analytical Environmental Services on March 12, 2002, in addition to information from the Natomas Basin Habitat Conservation Plan (NBHCP). The 2002 IS/MND analyzed potential impacts of development on biological resources within the 298.5-acre Natomas Crossing – Area 3 project site and concluded that, with implementation of mitigation measures, development of the area would result in less-than-significant impacts to biological resources.

As noted under question 'b' of the 2002 IS/MND, the project site did not contain any trees that qualified for protection under the City of Sacramento Heritage Tree Ordinance, and, impacts related to conflicts with the Tree Ordinance were concluded to be less than significant. Currently, the Tanzanite Project site remains absent of any trees. Therefore, impacts related to conflicting with the City's Tree Ordinance would remain less than significant.

Under question 'c', the 2002 IS/MND notes that 8.85 acres of seasonal wetland habitat exists on the original project site. However, the wetland features are not located on or near the Tanzanite Project site. As such, Mitigation Measure 2, requiring certification from the Regional Water Quality Control Board prior to filling wetlands, would not apply to the proposed project.

Question 'a' notes that special-status wildlife species, such as giant garter snake (*Thamnophis couchii*), Swainson's hawk (*Buteo swainsonii*), and other nesting or migratory birds, were identified as having potential habitat within the project area.

The NBHCP, adopted in 1997 and revised in 2003, is a conservation plan designed to promote biological conservation along with economic development and continuation of agriculture in the Natomas Basin. The NBHCP establishes a comprehensive program for the preservation and protection of habitat for threatened and endangered species potentially found on approximately 55,537 acres of undeveloped and agricultural land in northwestern Sacramento County and southern Sutter County. The NBHCP also includes management measures that are intended to avoid, minimize, and mitigate effects on species during urban development activities. The project site is located within the NBHCP boundaries, and, as such, the proposed project would be required to comply with the following mitigation measure from the 2002 IS/MND:

Mitigation Measure 1:

Prior to issuance of a grading permit, the applicant shall satisfy one of the following:

- 1. If legally permissible under the NBHCP Litigation Settlement Agreement, as such Agreement may be amended, revised, extended, or modified, the*

- applicant shall pay all required HCP fees under the Settlement Agreement, and otherwise observe all requirements of the Settlement Agreement and associated documents.*
2. *If a revised NBHCP has been adopted by all required agencies, applicant will obtain coverage under the City's ITP and/or Section 2081 management Authorization by entering into a Development Agreement with the City, by paying all required HCP fees and complying with all requirements of the NBHCP.*
 3. *If a revised NBHCP is not in place, the applicant shall obtain and provide evidence to the City of a project specific ITP and/or Section 2081 Management Authorization from the CDFW and the USFWS as necessary for covered species.*

A search of the California Department of Fish and Wildlife (CDFW) Natural Diversity Database (CNDDDB) was performed for the Tanzanite Project site to determine if any new species have been identified in the area since the previous analysis. Based on the results of the CNDDDB query, new special-status species occurrences have not been documented on or near the Tanzanite Project site. Mitigation Measure 1, which requires compliance with the applicable measures within the NBHCP, would continue to be required in order to ensure impacts to Swainson's hawk and other nesting or migratory birds would be reduced to a less-than-significant level. It should be noted that while the 2002 IS/MND concluded that giant garter snake could occur within the original project site, habitat for the species (i.e., wetlands, aquatic features) does not exist on or near the Tanzanite Project site.

Conclusion

Consistent with the 2002 IS/MND, impacts to special-status species would be reduced to a less-than-significant level with the implementation of Mitigation Measure 1, and the proposed project would not result in impacts beyond what was anticipated to occur in the 2002 IS/MND. As part of the NBHCP participation, in compliance with Mitigation Measure 1, project construction would be required to conduct a preconstruction biological survey not less than 30 days or more than six months prior to site disturbance. The preconstruction biological survey would be conducted by a wildlife agency qualified biologist retained by the project applicant and approved by the Community Development Department's New Growth Manager (City's HCP Designee). Pre-construction surveys for individual species may be completed up to one year in advance if the sole period for reliable detection of that species is between May 1 and December 31. Should any special-status species be identified, appropriate measures shall be implemented in compliance with the NBHCP (including implementation of Incidental Take Minimization Measures) for the review and approval of the Planning Director. Therefore, the proposed project would not result in any changes that would involve new significant impacts or substantially more severe impacts related to biological resources from what has been anticipated for the project site in the 2002 IS/MND.

Noise

The 2002 IS/MND concluded that buildout of the approved project could result in long-term operational noise levels that exceed the City's identified acceptable noise standards at the project site. The project site falls between the 65 and 70 dB noise contour, based on Figure 4-6 of the 2002 IS/MND. Mitigation Measure 3, which required an acoustical report and implementation of noise attenuation features to reduce noise at the future residences, was determined to reduce on-site noise impacts to less-than-significant levels.

However, per the 2015 Supreme Court Case, *California Building Industry Association v. Bay Area Air Quality Management District* (Case No. S213478), "agencies subject to CEQA generally are not required to analyze

the impact of existing environmental conditions on a project's future users or residents." As such, because the CEQA Guidelines do not require analysis of effects of the environment on the project, including impacts of noise on future residents, the potential effects related to noise exposure at the proposed residences on the project site are not considered a CEQA impact. As such, Mitigation Measure 3 from the 2002 IS/MND would no longer be required as part of the CEQA requirements of the proposed project.

Construction activities associated with development of the proposed project would result in temporarily increased noise levels at the nearest sensitive receptors. The nearest sensitive receptors would be the single-family residences, located approximately 25 feet to the northeast of the site.

Chapter 8.68, Noise Control, of the Sacramento City Code sets limits for exterior noise levels on designated residential property. The ordinance states that exterior noise shall not exceed 55 dB during any cumulative 30-minute period in any hour during the day (7 AM to 10 PM) and 50 dB during any cumulative 30-minute period in any hour during the night (10 PM to 7 AM). The ordinance sets somewhat higher noise limits for time intervals of shorter duration; however, noise in residential areas must never exceed 75 dB during the day and 70 dB at night. The City of Sacramento's Noise Ordinance of the City Code exempts construction activities from the noise standards, provided that they take place between the hours of 7:00 AM and 6:00 PM, Monday through Saturday, and 9:00 AM and 6:00 PM Sundays and holidays. Although construction activities associated with the proposed project could result in infrequent periods of high noise levels, the noise would not occur for sustained periods of time and would only occur during City permitted construction noise hours.

During project construction, heavy equipment would be used for grading excavation, paving, and building construction, which would generate localized vibration in the immediate vicinity of the construction. The nearest sensitive receptors are located approximately 25 feet outside of the project site. Because vibration levels generated by the type of construction equipment which will be required for this project dissipate very rapidly with distance, vibration levels at the nearest residences are expected to be below 0.1 inches/second peak particle velocity at nearby residences over the course of project construction activities. Peak particle velocities below 0.1 inches/second would be well below the City's thresholds for damage to structures, and, as a result, construction of the proposed project would result in a less-than-significant impact.

During project operations, the primary source of noise would be from traffic. However, as discussed in further detail below, the proposed project would result in fewer vehicle trips than what was analyzed in the 2002 IS/MND. The 2002 IS/MND concluded that traffic noise generated from the original project would result in a less than significant impact. Therefore, the less severe traffic noise generated by the proposed project would remain less-than-significant. Aside from transportation noise, residential land uses are not typically associated with activities that would result in a substantial permanent increase in ambient noise levels.

Based on the discussion above, implementation of the proposed project would not result in a substantial temporary or permanent increase in ambient noise levels, and would not generate groundborne vibration in excess of City standards. As such, impacts related to noise would be less-than-significant, and would remain consistent with the conclusions drawn within the 2002 IS/MND.

Transportation and Circulation

The purpose of this Addendum is to determine whether implementation of the proposed project would result in a new or substantial increase in severity of significant impacts identified in the 2002 IS/MND. The 2002 IS/MND concluded that impacts to Transportation and Circulation would be less than significant with incorporation of the following three roadway improvements:

1. Dedication and construction of Del Paso Road;
2. Dedication and construction of San Juan Road;
3. Modification of East Commerce Way north of Natomas Crossing Drive to include a separate sidewalk and changes to the existing median, and extension of East Commerce Way, south of Natomas Crossing Drive as a four-lane facility.

Del Paso Road and San Juan Road have been constructed since approval of the 2002 IS/MND. In addition, neither road is located in the direct vicinity of the project site, and thus, Improvements 1 and 2 do not apply to the proposed project. However, the project site is located south of Natomas Crossing Drive. As such, extension of East Commerce Way as a four-lane facility, as required under Improvement 3, would remain applicable to the proposed project. Figure 3-4 of the 2002 MND also assumes the incorporation of Road "J" (Tanzanite Avenue) from E. Commerce Way to Airport Road with the proposed project per the *Roadways* discussion from the 2002 MND. The project would not include any new roadway improvements beyond what was previously analyzed in the 2002 IS/MND.

In addition, the intensity of development would be reduced under the proposed project. Based on information provided by the City of Sacramento Public Works Department, the proposed project is anticipated to generate an average of 1,554 vehicle trips per day. Under the approved project, which included development of the site with up to 319 residential units, buildout of the project site would have generated 3,023 daily trips. Therefore, the proposed project is expected to generate 1,469 fewer average daily trips than what was previously anticipated. As such, impacts to Transportation and Circulation would be less severe than what was analyzed in the 2002 IS/MND.

Remaining Environmental Resource Areas

The 2002 IS/MND previously considered development of the project site with up to 319 residential units. The proposed project would include development of 138 single-family residential units and 73 ADUs on the site, which is substantially fewer units than originally anticipated. While the intensity of development on the site would be reduced, the area of disturbance would remain the same as what was analyzed in the 2002 IS/MND.

Because the site was already designated for development, ground-disturbing activity associated with the proposed project would be identical to what was previously considered for the site. Therefore, impacts related to agricultural resources, geology and soils, and mineral resources would be the same as what was previously analyzed. In addition, the proposed project is consistent with the type of development that was anticipated for the site. As such, impacts to land use and planning and hazards would remain the same.

Impacts to cultural and tribal cultural resources are anticipated to remain the same because the area of ground disturbance is identical as the original project. As part of this Addendum, searches of the Native American Heritage Commission's (NAHC) Sacred Lands File and the North Central Information Center California Historical Resources Information System (CHRIS) were conducted. The NAHC Sacred Lands File search returned negative results, indicating that known tribal cultural resources do not exist on the project site. However, the results of the CHRIS search indicated that the project area is known to contain one prehistoric-period resource and one historic-period resource, and concludes that the project area is considered sensitive to the discovery of cultural resources. If cultural resources were to be found during project ground-disturbing activities, a potentially significant impact would occur. However, as noted in the 2002 IS/MND, implementation of Mitigation Measures 4 and 5 would reduce all impacts to a less-than-significant level. Both measures would apply to the proposed project. Therefore, impacts related to cultural resources from implementation of the proposed project would be identical to the impacts resulting from implementation of the original project.

Development of the proposed project would involve the creation of impervious surfaces. However, as noted previously, the project site was already planned for development, and the 2002 IS/MND analyzed impacts associated with the addition of impervious surfaces on the site. As noted on page 4-17 of the 2002 IS/MND, “the impervious surfaces will require an on-site storm drain system to deliver runoff from the site to the on-site drainage channels.” In addition, the 2002 IS/MND notes that development of the project site would require compliance with the City’s Stormwater Management Program as well as the State’s National Pollution Discharge Elimination System General Permit. As described in the project description of this Addendum, the proposed project includes an on-site storm drain system to divert runoff to the appropriate channel. Additionally, the proposed project remains subject to the stormwater requirements set forth by the City and State. As such, impacts to stormwater runoff and hydrological resources would remain similar to what was concluded in the 2002 IS/MND.

Because the proposed project would include a reduced development intensity, impacts to aesthetics would be similar to, or less than, what was previously analyzed. As a result of the reduced development intensity, fewer residents are expected to occupy the project site. Some environmental impact areas are a function of population, including public services, utilities and service systems, recreation, and population and housing. For example, if fewer individuals occupy the project site, the project is expected to exert less demand on utilities such as water and sewer. Impacts to the aforementioned areas would be fewer relative to what was previously analyzed.

With regard to energy efficiency, several regulations have been put into place since the approval of the 2002 IS/MND, including the 2019 California Building Standards Code. Because the proposed project would be required to comply with all applicable laws and regulations governing energy efficiency, the proposed 138-lot subdivision would result in fewer impacts to energy than what would have been occurred under development of the site with 319 units, as was anticipated in the 2002 IS/MND.

Conclusion

As established in the discussions above regarding the potential effects of the proposed project, the proposed project would not result in any new significant information of substantial importance, new impacts, an increase in the severity of previously identified impacts, new mitigation measures, new or revised alternatives, or any other changes from what was identified for the original project in the 2002 IS/MND such that major revisions would be required. Therefore, the Community Development Department concludes that the analyses conducted and the conclusions reached in the 2002 IS/MND remain valid. As such, the proposed project would not result in any conditions identified in CEQA Guidelines Section 15162, and supplemental environmental review or a subsequent IS/MND is not required. The proposed project would be subject to all applicable previously required mitigation measures set forth in the 2002 IS/MND.

Based on the above analysis, this Addendum to the previously-adopted IS/MND for the project has been prepared.

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS MODELING RESULTS

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Annual

Tanzanite Project - Original
Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	319.00	Dwelling Unit	15.19	574,200.00	852

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2012
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage set to reflect project site.

Construction Phase - Architectural Coating phase adjusted to start two weeks after the start of Building Construction.

Mobile Land Use Mitigation -

Energy Mitigation -

Vehicle Trips - Weekday trip rate adjusted per information provided by the Public Works Dept.

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	PhaseEndDate	12/14/2011	11/30/2011
tblConstructionPhase	PhaseEndDate	10/19/2011	11/16/2011
tblConstructionPhase	PhaseEndDate	11/16/2011	9/22/2010
tblConstructionPhase	PhaseStartDate	11/17/2011	10/7/2010
tblConstructionPhase	PhaseStartDate	8/26/2010	9/23/2010
tblConstructionPhase	PhaseStartDate	10/20/2011	8/26/2010
tblLandUse	LotAcreage	103.57	15.19
tblTripsAndVMT	VendorTripNumber	0.00	34.00
tblTripsAndVMT	WorkerTripNumber	38.00	15.00
tblTripsAndVMT	WorkerTripNumber	38.00	115.00
tblVehicleTrips	WD_TR	9.52	9.48

2.0 Emissions Summary

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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					
2010	1.2691	4.0299	3.0063	3.9600e-003	0.4493	0.2343	0.6835	0.1617	0.2197	0.3813	0.0000	370.6879	370.6879	0.0813	0.0000	372.7206
2011	3.7964	5.4130	5.3869	6.9800e-003	0.7608	0.3548	1.1156	0.1922	0.3372	0.5293	0.0000	637.5715	637.5715	0.1079	0.0000	640.2693
Maximum	3.7964	5.4130	5.3869	6.9800e-003	0.7608	0.3548	1.1156	0.1922	0.3372	0.5293	0.0000	637.5715	637.5715	0.1079	0.0000	640.2693

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					
2010	1.2691	4.0299	3.0063	3.9600e-003	0.4493	0.2343	0.6835	0.1617	0.2197	0.3813	0.0000	370.6876	370.6876	0.0813	0.0000	372.7202
2011	3.7964	5.4130	5.3869	6.9800e-003	0.7608	0.3548	1.1156	0.1922	0.3372	0.5293	0.0000	637.5711	637.5711	0.1079	0.0000	640.2689
Maximum	3.7964	5.4130	5.3869	6.9800e-003	0.7608	0.3548	1.1156	0.1922	0.3372	0.5293	0.0000	637.5711	637.5711	0.1079	0.0000	640.2689

	ROG	NOx	CO	SO2	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

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2010	9-30-2010	2.6801	2.6801
2	10-1-2010	12-31-2010	2.6107	2.6107
3	1-1-2011	3-31-2011	2.5718	2.5718
4	4-1-2011	6-30-2011	2.5749	2.5749
5	7-1-2011	9-30-2011	2.6032	2.6032
		Highest	2.6801	2.6801

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	2.7183	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255
Energy	0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	1,161.0148	1,161.0148	0.0439	0.0154	1,166.6986
Mobile	2.4622	8.4375	29.6617	0.0415	2.8887	0.1605	3.0491	0.7768	0.1527	0.9295	0.0000	3,779.5708	3,779.5708	0.3360	0.0000	3,787.9718
Waste						0.0000	0.0000		0.0000	0.0000	62.2614	0.0000	62.2614	3.6795	0.0000	154.2500
Water						0.0000	0.0000		0.0000	0.0000	7.3535	40.0086	47.3621	0.0273	0.0164	52.9306
Total	5.2249	8.8582	33.2417	0.0441	2.8887	0.2089	3.0975	0.7768	0.2011	0.9779	69.6149	4,985.9680	5,055.5828	4.0928	0.0318	5,167.3765

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	2.7183	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255
Energy	0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	1,161.0148	1,161.0148	0.0439	0.0154	1,166.6986
Mobile	2.4412	8.3041	29.2238	0.0407	2.8309	0.1576	2.9885	0.7613	0.1499	0.9112	0.0000	3,706.9792	3,706.9792	0.3306	0.0000	3,715.2450
Waste						0.0000	0.0000		0.0000	0.0000	62.2614	0.0000	62.2614	3.6795	0.0000	154.2500
Water						0.0000	0.0000		0.0000	0.0000	7.3535	40.0086	47.3621	0.0273	0.0164	52.9306
Total	5.2039	8.7247	32.8038	0.0433	2.8309	0.2060	3.0369	0.7613	0.1984	0.9596	69.6149	4,913.3764	4,982.9913	4.0874	0.0318	5,094.6496

	ROG	NOx	CO	SO2	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	0.40	1.51	1.32	1.79	2.00	1.37	1.96	2.00	1.36	1.87	0.00	1.46	1.44	0.13	0.00	1.41

3.0 Construction Detail

Construction Phase

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2010	7/14/2010	5	10	
2	Grading	Grading	7/15/2010	8/25/2010	5	30	
3	Building Construction	Building Construction	9/23/2010	11/16/2011	5	300	
4	Paving	Paving	8/26/2010	9/22/2010	5	20	
5	Architectural Coating	Architectural Coating	10/7/2010	11/30/2011	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 1,162,755; Residential Outdoor: 387,585; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Annual

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

Trips and VMT

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	15	115.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	115.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2010

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.2949	0.1188	1.9000e-004		0.0167	0.0167		0.0153	0.0153	0.0000	18.6460	18.6460	5.4300e-003	0.0000	18.7817
Total	0.0269	0.2949	0.1188	1.9000e-004	0.0903	0.0167	0.1070	0.0497	0.0153	0.0650	0.0000	18.6460	18.6460	5.4300e-003	0.0000	18.7817

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3.2 Site Preparation - 2010

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	8.6000e-004	7.3000e-004	7.3400e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.7087	0.7087	5.0000e-005	0.0000	0.7100
Total	8.6000e-004	7.3000e-004	7.3400e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.7087	0.7087	5.0000e-005	0.0000	0.7100

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.2949	0.1188	1.9000e-004		0.0167	0.0167		0.0153	0.0153	0.0000	18.6460	18.6460	5.4300e-003	0.0000	18.7817
Total	0.0269	0.2949	0.1188	1.9000e-004	0.0903	0.0167	0.1070	0.0497	0.0153	0.0650	0.0000	18.6460	18.6460	5.4300e-003	0.0000	18.7817

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3.2 Site Preparation - 2010

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	8.6000e-004	7.3000e-004	7.3400e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.7087	0.7087	5.0000e-005	0.0000	0.7100
Total	8.6000e-004	7.3000e-004	7.3400e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.7087	0.7087	5.0000e-005	0.0000	0.7100

3.3 Grading - 2010

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1003	1.2659	0.6637	9.3000e-004		0.0584	0.0584		0.0537	0.0537	0.0000	91.0056	91.0056	0.0265	0.0000	91.6678
Total	0.1003	1.2659	0.6637	9.3000e-004	0.1301	0.0584	0.1885	0.0540	0.0537	0.1077	0.0000	91.0056	91.0056	0.0265	0.0000	91.6678

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3.3 Grading - 2010

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	2.4300e-003	0.0245	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.3624	2.3624	1.8000e-004	0.0000	2.3668
Total	2.8500e-003	2.4300e-003	0.0245	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.3624	2.3624	1.8000e-004	0.0000	2.3668

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1003	1.2659	0.6637	9.3000e-004		0.0584	0.0584		0.0537	0.0537	0.0000	91.0055	91.0055	0.0265	0.0000	91.6677
Total	0.1003	1.2659	0.6637	9.3000e-004	0.1301	0.0584	0.1885	0.0540	0.0537	0.1077	0.0000	91.0055	91.0055	0.0265	0.0000	91.6677

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3.3 Grading - 2010

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	2.4300e-003	0.0245	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.3624	2.3624	1.8000e-004	0.0000	2.3668
Total	2.8500e-003	2.4300e-003	0.0245	3.0000e-005	2.2000e-003	3.0000e-005	2.2300e-003	5.9000e-004	3.0000e-005	6.2000e-004	0.0000	2.3624	2.3624	1.8000e-004	0.0000	2.3668

3.4 Building Construction - 2010

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	0.1701	1.2866	0.7063	9.7000e-004		0.0941	0.0941		0.0889	0.0889	0.0000	89.9413	89.9413	0.0244	0.0000	90.5502
Total	0.1701	1.2866	0.7063	9.7000e-004		0.0941	0.0941		0.0889	0.0889	0.0000	89.9413	89.9413	0.0244	0.0000	90.5502

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3.4 Building Construction - 2010

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	0.0307	0.2520	0.2198	3.0000e-004	7.1600e-003	8.1500e-003	0.0153	2.0700e-003	7.8000e-003	9.8700e-003	0.0000	28.4308	28.4308	3.4200e-003	0.0000	28.5162
Worker	0.0394	0.0335	0.3375	3.6000e-004	0.0304	4.4000e-004	0.0308	8.0900e-003	4.0000e-004	8.4900e-003	0.0000	32.6013	32.6013	2.4200e-003	0.0000	32.6617
Total	0.0701	0.2855	0.5573	6.6000e-004	0.0376	8.5900e-003	0.0462	0.0102	8.2000e-003	0.0184	0.0000	61.0321	61.0321	5.8400e-003	0.0000	61.1779

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	0.1701	1.2866	0.7063	9.7000e-004		0.0941	0.0941		0.0889	0.0889	0.0000	89.9412	89.9412	0.0244	0.0000	90.5501
Total	0.1701	1.2866	0.7063	9.7000e-004		0.0941	0.0941		0.0889	0.0889	0.0000	89.9412	89.9412	0.0244	0.0000	90.5501

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3.4 Building Construction - 2010

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	0.0307	0.2520	0.2198	3.0000e-004	7.1600e-003	8.1500e-003	0.0153	2.0700e-003	7.8000e-003	9.8700e-003	0.0000	28.4308	28.4308	3.4200e-003	0.0000	28.5162
Worker	0.0394	0.0335	0.3375	3.6000e-004	0.0304	4.4000e-004	0.0308	8.0900e-003	4.0000e-004	8.4900e-003	0.0000	32.6013	32.6013	2.4200e-003	0.0000	32.6617
Total	0.0701	0.2855	0.5573	6.6000e-004	0.0376	8.5900e-003	0.0462	0.0102	8.2000e-003	0.0184	0.0000	61.0321	61.0321	5.8400e-003	0.0000	61.1779

3.4 Building Construction - 2011

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	0.5161	3.9618	2.2203	3.0700e-003		0.2901	0.2901		0.2738	0.2738	0.0000	284.1521	284.1521	0.0758	0.0000	286.0480
Total	0.5161	3.9618	2.2203	3.0700e-003		0.2901	0.2901		0.2738	0.2738	0.0000	284.1521	284.1521	0.0758	0.0000	286.0480

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3.4 Building Construction - 2011

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	0.0944	0.8284	0.6748	9.6000e-004	0.0227	0.0249	0.0476	6.5600e-003	0.0238	0.0303	0.0000	90.4698	90.4698	0.0106	0.0000	90.7351
Worker	0.1192	0.0984	1.0014	1.1500e-003	0.0963	1.2700e-003	0.0976	0.0256	1.1800e-003	0.0268	0.0000	103.2419	103.2419	7.1100e-003	0.0000	103.4195
Total	0.2136	0.9268	1.6762	2.1100e-003	0.1190	0.0261	0.1451	0.0322	0.0250	0.0571	0.0000	193.7117	193.7117	0.0177	0.0000	194.1546

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	0.5160	3.9618	2.2203	3.0700e-003		0.2901	0.2901		0.2738	0.2738	0.0000	284.1518	284.1518	0.0758	0.0000	286.0477
Total	0.5160	3.9618	2.2203	3.0700e-003		0.2901	0.2901		0.2738	0.2738	0.0000	284.1518	284.1518	0.0758	0.0000	286.0477

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3.4 Building Construction - 2011

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	0.0944	0.8284	0.6748	9.6000e-004	0.0227	0.0249	0.0476	6.5600e-003	0.0238	0.0303	0.0000	90.4698	90.4698	0.0106	0.0000	90.7351
Worker	0.1192	0.0984	1.0014	1.1500e-003	0.0963	1.2700e-003	0.0976	0.0256	1.1800e-003	0.0268	0.0000	103.2419	103.2419	7.1100e-003	0.0000	103.4195
Total	0.2136	0.9268	1.6762	2.1100e-003	0.1190	0.0261	0.1451	0.0322	0.0250	0.0571	0.0000	193.7117	193.7117	0.0177	0.0000	194.1546

3.5 Paving - 2010

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	0.0754	0.6684	0.3506	5.0000e-004		0.0436	0.0436		0.0407	0.0407	0.0000	47.2541	47.2541	0.0133	0.0000	47.5853
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0754	0.6684	0.3506	5.0000e-004		0.0436	0.0436		0.0407	0.0407	0.0000	47.2541	47.2541	0.0133	0.0000	47.5853

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3.5 Paving - 2010

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	8.5300e-003	0.0700	0.0611	8.0000e-005	3.3900e-003	2.2600e-003	5.6600e-003	9.2000e-004	2.1700e-003	3.0900e-003	0.0000	7.8974	7.8974	9.5000e-004	0.0000	7.9212
Worker	0.0124	0.0105	0.1060	1.1000e-004	0.0178	1.4000e-004	0.0179	4.5600e-003	1.3000e-004	4.6900e-003	0.0000	10.2371	10.2371	7.6000e-004	0.0000	10.2561
Total	0.0209	0.0805	0.1670	1.9000e-004	0.0212	2.4000e-003	0.0236	5.4800e-003	2.3000e-003	7.7800e-003	0.0000	18.1346	18.1346	1.7100e-003	0.0000	18.1773

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	0.0754	0.6684	0.3506	5.0000e-004		0.0436	0.0436		0.0407	0.0407	0.0000	47.2541	47.2541	0.0133	0.0000	47.5853
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0754	0.6684	0.3506	5.0000e-004		0.0436	0.0436		0.0407	0.0407	0.0000	47.2541	47.2541	0.0133	0.0000	47.5853

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3.5 Paving - 2010

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	8.5300e-003	0.0700	0.0611	8.0000e-005	3.3900e-003	2.2600e-003	5.6600e-003	9.2000e-004	2.1700e-003	3.0900e-003	0.0000	7.8974	7.8974	9.5000e-004	0.0000	7.9212
Worker	0.0124	0.0105	0.1060	1.1000e-004	0.0178	1.4000e-004	0.0179	4.5600e-003	1.3000e-004	4.6900e-003	0.0000	10.2371	10.2371	7.6000e-004	0.0000	10.2561
Total	0.0209	0.0805	0.1670	1.9000e-004	0.0212	2.4000e-003	0.0236	5.4800e-003	2.3000e-003	7.7800e-003	0.0000	18.1346	18.1346	1.7100e-003	0.0000	18.1773

3.6 Architectural Coating - 2010

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	0.7425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1103	0.0621	9.0000e-005		0.0100	0.0100		0.0100	0.0100	0.0000	7.9151	7.9151	1.5200e-003	0.0000	7.9530
Total	0.7612	0.1103	0.0621	9.0000e-005		0.0100	0.0100		0.0100	0.0100	0.0000	7.9151	7.9151	1.5200e-003	0.0000	7.9530

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3.6 Architectural Coating - 2010

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	0.0407	0.0346	0.3488	3.8000e-004	0.1672	4.5000e-004	0.1677	0.0417	4.2000e-004	0.0421	0.0000	33.6880	33.6880	2.5000e-003	0.0000	33.7504
Total	0.0407	0.0346	0.3488	3.8000e-004	0.1672	4.5000e-004	0.1677	0.0417	4.2000e-004	0.0421	0.0000	33.6880	33.6880	2.5000e-003	0.0000	33.7504

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	0.7425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1103	0.0621	9.0000e-005		0.0100	0.0100		0.0100	0.0100	0.0000	7.9151	7.9151	1.5200e-003	0.0000	7.9530
Total	0.7612	0.1103	0.0621	9.0000e-005		0.0100	0.0100		0.0100	0.0100	0.0000	7.9151	7.9151	1.5200e-003	0.0000	7.9530

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3.6 Architectural Coating - 2010

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	0.0407	0.0346	0.3488	3.8000e-004	0.1672	4.5000e-004	0.1677	0.0417	4.2000e-004	0.0421	0.0000	33.6880	33.6880	2.5000e-003	0.0000	33.7504
Total	0.0407	0.0346	0.3488	3.8000e-004	0.1672	4.5000e-004	0.1677	0.0417	4.2000e-004	0.0421	0.0000	33.6880	33.6880	2.5000e-003	0.0000	33.7504

3.6 Architectural Coating - 2011

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	2.8504					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0672	0.4011	0.2360	3.5000e-004		0.0369	0.0369		0.0369	0.0369	0.0000	30.3837	30.3837	5.4500e-003	0.0000	30.5201
Total	2.9176	0.4011	0.2360	3.5000e-004		0.0369	0.0369		0.0369	0.0369	0.0000	30.3837	30.3837	5.4500e-003	0.0000	30.5201

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3.6 Architectural Coating - 2011

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	0.1493	0.1233	1.2544	1.4400e-003	0.6418	1.5900e-003	0.6434	0.1600	1.4800e-003	0.1615	0.0000	129.3240	129.3240	8.9000e-003	0.0000	129.5466
Total	0.1493	0.1233	1.2544	1.4400e-003	0.6418	1.5900e-003	0.6434	0.1600	1.4800e-003	0.1615	0.0000	129.3240	129.3240	8.9000e-003	0.0000	129.5466

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	2.8504					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0672	0.4011	0.2360	3.5000e-004		0.0369	0.0369		0.0369	0.0369	0.0000	30.3837	30.3837	5.4500e-003	0.0000	30.5200
Total	2.9176	0.4011	0.2360	3.5000e-004		0.0369	0.0369		0.0369	0.0369	0.0000	30.3837	30.3837	5.4500e-003	0.0000	30.5200

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3.6 Architectural Coating - 2011

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	0.1493	0.1233	1.2544	1.4400e-003	0.6418	1.5900e-003	0.6434	0.1600	1.4800e-003	0.1615	0.0000	129.3240	129.3240	8.9000e-003	0.0000	129.5466
Total	0.1493	0.1233	1.2544	1.4400e-003	0.6418	1.5900e-003	0.6434	0.1600	1.4800e-003	0.1615	0.0000	129.3240	129.3240	8.9000e-003	0.0000	129.5466

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

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	ROG	NOx	CO	SO2	Fugitive 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	2.4412	8.3041	29.2238	0.0407	2.8309	0.1576	2.9885	0.7613	0.1499	0.9112	0.0000	3,706.9792	3,706.9792	0.3306	0.0000	3,715.2450
Unmitigated	2.4622	8.4375	29.6617	0.0415	2.8887	0.1605	3.0491	0.7768	0.1527	0.9295	0.0000	3,779.5708	3,779.5708	0.3360	0.0000	3,787.9718

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,024.12	3,161.29	2,749.78	7,709,937	7,555,738
Total	3,024.12	3,161.29	2,749.78	7,709,937	7,555,738

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	10.00	5.00	6.50	46.50	12.50	41.00	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	0.502136	0.056649	0.191270	0.153792	0.037722	0.007417	0.018605	0.017470	0.002459	0.003398	0.006873	0.000687	0.001521

5.0 Energy Detail

Historical Energy Use: N

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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	721.2295	721.2295	0.0354	7.3300e-003	724.2998
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	721.2295	721.2295	0.0354	7.3300e-003	724.2998
NaturalGas Mitigated	0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.7853	439.7853	8.4300e-003	8.0600e-003	442.3988
NaturalGas Unmitigated	0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.7853	439.7853	8.4300e-003	8.0600e-003	442.3988

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	8.24127e+006	0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.7853	439.7853	8.4300e-003	8.0600e-003	442.3988
Total		0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.7853	439.7853	8.4300e-003	8.0600e-003	442.3988

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	8.24127e+006	0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.7853	439.7853	8.4300e-003	8.0600e-003	442.3988
Total		0.0444	0.3797	0.1616	2.4200e-003		0.0307	0.0307		0.0307	0.0307	0.0000	439.7853	439.7853	8.4300e-003	8.0600e-003	442.3988

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.69357e+006	721.2295	0.0354	7.3300e-003	724.2998
Total		721.2295	0.0354	7.3300e-003	724.2998

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.69357e+006	721.2295	0.0354	7.3300e-003	724.2998
Total		721.2295	0.0354	7.3300e-003	724.2998

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	2.7183	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255
Unmitigated	2.7183	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1165	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255
Total	2.7183	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1165	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255
Total	2.7183	0.0409	3.4184	1.7000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	5.3737	5.3737	6.0700e-003	0.0000	5.5255

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	47.3621	0.0273	0.0164	52.9306
Unmitigated	47.3621	0.0273	0.0164	52.9306

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	20.7841 / 13.103	47.3621	0.0273	0.0164	52.9306
Total		47.3621	0.0273	0.0164	52.9306

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	20.7841 / 13.103	47.3621	0.0273	0.0164	52.9306
Total		47.3621	0.0273	0.0164	52.9306

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	62.2614	3.6795	0.0000	154.2500
Unmitigated	62.2614	3.6795	0.0000	154.2500

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	306.72	62.2614	3.6795	0.0000	154.2500
Total		62.2614	3.6795	0.0000	154.2500

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	306.72	62.2614	3.6795	0.0000	154.2500
Total		62.2614	3.6795	0.0000	154.2500

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

Tanzanite Project - Original
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	319.00	Dwelling Unit	15.19	574,200.00	852

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2012
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage set to reflect project site.

Construction Phase - Architectural Coating phase adjusted to start two weeks after the start of Building Construction.

Mobile Land Use Mitigation -

Energy Mitigation -

Vehicle Trips - Weekday trip rate adjusted per information provided by the Public Works Dept.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	PhaseEndDate	12/14/2011	11/30/2011
tblConstructionPhase	PhaseEndDate	10/19/2011	11/16/2011
tblConstructionPhase	PhaseEndDate	11/16/2011	9/22/2010
tblConstructionPhase	PhaseStartDate	11/17/2011	10/7/2010
tblConstructionPhase	PhaseStartDate	8/26/2010	9/23/2010
tblConstructionPhase	PhaseStartDate	10/20/2011	8/26/2010
tblLandUse	LotAcreage	103.57	15.19
tblTripsAndVMT	VendorTripNumber	0.00	34.00
tblTripsAndVMT	WorkerTripNumber	38.00	15.00
tblTripsAndVMT	WorkerTripNumber	38.00	115.00
tblVehicleTrips	WD_TR	9.52	9.48

2.0 Emissions Summary

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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					
2010	32.8341	84.5401	53.4003	0.0708	18.2032	4.5959	21.5391	9.9670	4.3000	13.0360	0.0000	7,329.5537	7,329.5537	1.9607	0.0000	7,370.9035
2011	32.4585	46.7691	49.6946	0.0630	6.6907	3.0948	9.7855	1.6891	2.9407	4.6297	0.0000	6,333.2115	6,333.2115	1.0494	0.0000	6,359.4454
Maximum	32.8341	84.5401	53.4003	0.0708	18.2032	4.5959	21.5391	9.9670	4.3000	13.0360	0.0000	7,329.5537	7,329.5537	1.9607	0.0000	7,370.9035

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					
2010	32.8341	84.5401	53.4003	0.0708	18.2032	4.5959	21.5391	9.9670	4.3000	13.0360	0.0000	7,329.5537	7,329.5537	1.9607	0.0000	7,370.9035
2011	32.4585	46.7691	49.6946	0.0630	6.6907	3.0948	9.7855	1.6891	2.9407	4.6297	0.0000	6,333.2115	6,333.2115	1.0494	0.0000	6,359.4454
Maximum	32.8341	84.5401	53.4003	0.0708	18.2032	4.5959	21.5391	9.9670	4.3000	13.0360	0.0000	7,329.5537	7,329.5537	1.9607	0.0000	7,370.9035

	ROG	NOx	CO	SO2	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

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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	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268
Energy	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Mobile	16.9885	45.7012	190.1242	0.2602	17.2852	0.9203	18.2055	4.6345	0.8756	5.5101		26,077.4608	26,077.4608	2.2204		26,132.9707
Total	32.4202	48.1094	218.3568	0.2748	17.2852	1.2304	18.5156	4.6345	1.1857	5.8202	0.0000	28,781.1797	28,781.1797	2.3249	0.0487	28,853.8135

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	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268
Energy	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Mobile	16.8628	44.9887	187.1062	0.2552	16.9395	0.9037	17.8432	4.5418	0.8598	5.4016		25,575.4157	25,575.4157	2.1834		25,630.0001
Total	32.2945	47.3969	215.3388	0.2698	16.9395	1.2138	18.1533	4.5418	1.1699	5.7117	0.0000	28,279.1347	28,279.1347	2.2878	0.0487	28,350.8428

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	0.39	1.48	1.38	1.82	2.00	1.35	1.96	2.00	1.33	1.86	0.00	1.74	1.74	1.59	0.00	1.74

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2010	7/14/2010	5	10	
2	Grading	Grading	7/15/2010	8/25/2010	5	30	
3	Building Construction	Building Construction	9/23/2010	11/16/2011	5	300	
4	Paving	Paving	8/26/2010	9/22/2010	5	20	
5	Architectural Coating	Architectural Coating	10/7/2010	11/30/2011	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 1,162,755; Residential Outdoor: 387,585; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

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

Trips and VMT

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	15	115.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	115.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2010

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.3797	58.9713	23.7522	0.0381		3.3340	3.3340		3.0673	3.0673		4,110.7425	4,110.7425	1.1966		4,140.6562
Total	5.3797	58.9713	23.7522	0.0381	18.0663	3.3340	21.4002	9.9307	3.0673	12.9979		4,110.7425	4,110.7425	1.1966		4,140.6562

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.2 Site Preparation - 2010

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	0.1930	0.1309	1.6918	1.7500e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		172.4980	172.4980	0.0127		172.8145
Total	0.1930	0.1309	1.6918	1.7500e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		172.4980	172.4980	0.0127		172.8145

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.3797	58.9713	23.7522	0.0381		3.3340	3.3340		3.0673	3.0673	0.0000	4,110.7425	4,110.7425	1.1966		4,140.6562
Total	5.3797	58.9713	23.7522	0.0381	18.0663	3.3340	21.4002	9.9307	3.0673	12.9979	0.0000	4,110.7425	4,110.7425	1.1966		4,140.6562

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.2 Site Preparation - 2010

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	0.1930	0.1309	1.6918	1.7500e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		172.4980	172.4980	0.0127		172.8145
Total	0.1930	0.1309	1.6918	1.7500e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		172.4980	172.4980	0.0127		172.8145

3.3 Grading - 2010

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.6844	84.3947	44.2471	0.0621		3.8922	3.8922		3.5808	3.5808		6,687.7664	6,687.7664	1.9467		6,736.4330
Total	6.6844	84.3947	44.2471	0.0621	8.6733	3.8922	12.5656	3.5965	3.5808	7.1773		6,687.7664	6,687.7664	1.9467		6,736.4330

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.3 Grading - 2010

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	0.2144	0.1455	1.8798	1.9400e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		191.6644	191.6644	0.0141		192.0161
Total	0.2144	0.1455	1.8798	1.9400e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		191.6644	191.6644	0.0141		192.0161

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.6844	84.3947	44.2471	0.0621		3.8922	3.8922		3.5808	3.5808	0.0000	6,687.7664	6,687.7664	1.9467		6,736.4330
Total	6.6844	84.3947	44.2471	0.0621	8.6733	3.8922	12.5656	3.5965	3.5808	7.1773	0.0000	6,687.7664	6,687.7664	1.9467		6,736.4330

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.3 Grading - 2010

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	0.2144	0.1455	1.8798	1.9400e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		191.6644	191.6644	0.0141		192.0161
Total	0.2144	0.1455	1.8798	1.9400e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		191.6644	191.6644	0.0141		192.0161

3.4 Building Construction - 2010

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	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692		2,753.9809	2,753.9809	0.7458		2,772.6260
Total	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692		2,753.9809	2,753.9809	0.7458		2,772.6260

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2010

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	0.8446	6.6541	6.1242	8.4200e-003	0.2048	0.2235	0.4283	0.0589	0.2139	0.2728		874.8588	874.8588	0.1022		877.4132
Worker	1.2330	0.8364	10.8086	0.0112	0.8748	0.0121	0.8869	0.2321	0.0112	0.2433		1,102.0703	1,102.0703	0.0809		1,104.0926
Total	2.0776	7.4905	16.9329	0.0196	1.0796	0.2357	1.3152	0.2910	0.2251	0.5161		1,976.9291	1,976.9291	0.1831		1,981.5058

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	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692	0.0000	2,753.9809	2,753.9809	0.7458		2,772.6260
Total	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692	0.0000	2,753.9809	2,753.9809	0.7458		2,772.6260

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2010

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	0.8446	6.6541	6.1242	8.4200e-003	0.2048	0.2235	0.4283	0.0589	0.2139	0.2728		874.8588	874.8588	0.1022		877.4132
Worker	1.2330	0.8364	10.8086	0.0112	0.8748	0.0121	0.8869	0.2321	0.0112	0.2433		1,102.0703	1,102.0703	0.0809		1,104.0926
Total	2.0776	7.4905	16.9329	0.0196	1.0796	0.2357	1.3152	0.2910	0.2251	0.5161		1,976.9291	1,976.9291	0.1831		1,981.5058

3.4 Building Construction - 2011

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	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020		2,747.5797	2,747.5797	0.7333		2,765.9118
Total	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020		2,747.5797	2,747.5797	0.7333		2,765.9118

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2011

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	0.8198	6.9394	5.9347	8.4500e-003	0.2048	0.2153	0.4201	0.0590	0.2060	0.2649		879.4114	879.4114	0.1002		881.9158
Worker	1.1794	0.7758	10.1365	0.0112	0.8748	0.0112	0.8860	0.2321	0.0103	0.2424		1,102.1693	1,102.1693	0.0752		1,104.0486
Total	1.9992	7.7152	16.0713	0.0196	1.0796	0.2264	1.3060	0.2910	0.2163	0.5073		1,981.5806	1,981.5806	0.1754		1,985.9644

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	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020	0.0000	2,747.5797	2,747.5797	0.7333		2,765.9118
Total	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020	0.0000	2,747.5797	2,747.5797	0.7333		2,765.9118

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2011

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	0.8198	6.9394	5.9347	8.4500e-003	0.2048	0.2153	0.4201	0.0590	0.2060	0.2649		879.4114	879.4114	0.1002		881.9158
Worker	1.1794	0.7758	10.1365	0.0112	0.8748	0.0112	0.8860	0.2321	0.0103	0.2424		1,102.1693	1,102.1693	0.0752		1,104.0486
Total	1.9992	7.7152	16.0713	0.0196	1.0796	0.2264	1.3060	0.2910	0.2163	0.5073		1,981.5806	1,981.5806	0.1754		1,985.9644

3.5 Paving - 2010

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	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734		5,208.8763	5,208.8763	1.4604		5,245.3856
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734		5,208.8763	5,208.8763	1.4604		5,245.3856

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2010

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	0.8446	6.6541	6.1242	8.4200e-003	0.3509	0.2235	0.5744	0.0948	0.2139	0.3087		874.8588	874.8588	0.1022		877.4132
Worker	1.3938	0.9455	12.2185	0.0126	1.8483	0.0137	1.8620	0.4733	0.0127	0.4860		1,245.8186	1,245.8186	0.0915		1,248.1047
Total	2.2384	7.5996	18.3427	0.0211	2.1991	0.2372	2.4364	0.5681	0.2266	0.7946		2,120.6773	2,120.6773	0.1936		2,125.5179

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	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734	0.0000	5,208.8763	5,208.8763	1.4604		5,245.3856
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734	0.0000	5,208.8763	5,208.8763	1.4604		5,245.3856

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2010

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	0.8446	6.6541	6.1242	8.4200e-003	0.3509	0.2235	0.5744	0.0948	0.2139	0.3087		874.8588	874.8588	0.1022		877.4132
Worker	1.3938	0.9455	12.2185	0.0126	1.8483	0.0137	1.8620	0.4733	0.0127	0.4860		1,245.8186	1,245.8186	0.0915		1,248.1047
Total	2.2384	7.5996	18.3427	0.0211	2.1991	0.2372	2.4364	0.5681	0.2266	0.7946		2,120.6773	2,120.6773	0.1936		2,125.5179

3.6 Architectural Coating - 2010

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6007	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234		281.4481	281.4481	0.0540		282.7976
Total	24.5535	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234		281.4481	281.4481	0.0540		282.7976

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2010

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	1.4795	1.0037	12.9704	0.0134	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,322.484 3	1,322.484 3	0.0971		1,324.9112
Total	1.4795	1.0037	12.9704	0.0134	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,322.484 3	1,322.484 3	0.0971		1,324.911 2

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6007	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234	0.0000	281.4481	281.4481	0.0540		282.7976
Total	24.5535	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234	0.0000	281.4481	281.4481	0.0540		282.7976

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2010

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	1.4795	1.0037	12.9704	0.0134	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,322.484 3	1,322.484 3	0.0971		1,324.9112
Total	1.4795	1.0037	12.9704	0.0134	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,322.484 3	1,322.484 3	0.0971		1,324.911 2

3.6 Architectural Coating - 2011

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5646	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100		281.4481	281.4481	0.0505		282.7109
Total	24.5173	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100		281.4481	281.4481	0.0505		282.7109

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2011

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	1.4152	0.9310	12.1638	0.0134	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,322.603 1	1,322.603 1	0.0902		1,324.858 3
Total	1.4152	0.9310	12.1638	0.0134	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,322.603 1	1,322.603 1	0.0902		1,324.858 3

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5646	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100	0.0000	281.4481	281.4481	0.0505		282.7109
Total	24.5173	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100	0.0000	281.4481	281.4481	0.0505		282.7109

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2011

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	1.4152	0.9310	12.1638	0.0134	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,322.603 1	1,322.603 1	0.0902		1,324.858 3
Total	1.4152	0.9310	12.1638	0.0134	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,322.603 1	1,322.603 1	0.0902		1,324.858 3

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	16.8628	44.9887	187.1062	0.2552	16.9395	0.9037	17.8432	4.5418	0.8598	5.4016		25,575.4157	25,575.4157	2.1834		25,630.0001
Unmitigated	16.9885	45.7012	190.1242	0.2602	17.2852	0.9203	18.2055	4.6345	0.8756	5.5101		26,077.4608	26,077.4608	2.2204		26,132.9707

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,024.12	3,161.29	2,749.78	7,709,937	7,555,738
Total	3,024.12	3,161.29	2,749.78	7,709,937	7,555,738

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	10.00	5.00	6.50	46.50	12.50	41.00	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	0.502136	0.056649	0.191270	0.153792	0.037722	0.007417	0.018605	0.017470	0.002459	0.003398	0.006873	0.000687	0.001521

5.0 Energy Detail

Historical Energy Use: N

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
NaturalGas Unmitigated	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160

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	22578.8	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Total		0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	22.5788	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Total		0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160

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	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268
Unmitigated	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	1.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9316	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419		47.3882	47.3882	0.0535		48.7268
Total	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	1.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9316	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419		47.3882	47.3882	0.0535		48.7268
Total	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Summer

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

Tanzanite Project - Original
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	319.00	Dwelling Unit	15.19	574,200.00	852

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2012
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage set to reflect project site.

Construction Phase - Architectural Coating phase adjusted to start two weeks after the start of Building Construction.

Mobile Land Use Mitigation -

Energy Mitigation -

Vehicle Trips - Weekday trip rate adjusted per information provided by the Public Works Dept.

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	PhaseEndDate	12/14/2011	11/30/2011
tblConstructionPhase	PhaseEndDate	10/19/2011	11/16/2011
tblConstructionPhase	PhaseEndDate	11/16/2011	9/22/2010
tblConstructionPhase	PhaseStartDate	11/17/2011	10/7/2010
tblConstructionPhase	PhaseStartDate	8/26/2010	9/23/2010
tblConstructionPhase	PhaseStartDate	10/20/2011	8/26/2010
tblLandUse	LotAcreage	103.57	15.19
tblTripsAndVMT	VendorTripNumber	0.00	34.00
tblTripsAndVMT	WorkerTripNumber	38.00	15.00
tblTripsAndVMT	WorkerTripNumber	38.00	115.00
tblVehicleTrips	WD_TR	9.52	9.48

2.0 Emissions Summary

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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					
2010	32.7883	84.5757	52.7452	0.0692	18.2032	4.6027	21.5391	9.9670	4.3065	13.0360	0.0000	7,170.4535	7,170.4535	1.9597	0.0000	7,211.8462
2011	32.4152	47.5979	47.9706	0.0599	6.6907	3.1015	9.7921	1.6891	2.9470	4.6361	0.0000	6,032.3928	6,032.3928	1.0452	0.0000	6,058.5224
Maximum	32.7883	84.5757	52.7452	0.0692	18.2032	4.6027	21.5391	9.9670	4.3065	13.0360	0.0000	7,170.4535	7,170.4535	1.9597	0.0000	7,211.8462

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					
2010	32.7883	84.5757	52.7452	0.0692	18.2032	4.6027	21.5391	9.9670	4.3065	13.0360	0.0000	7,170.4535	7,170.4535	1.9597	0.0000	7,211.8462
2011	32.4152	47.5979	47.9706	0.0599	6.6907	3.1015	9.7921	1.6891	2.9470	4.6361	0.0000	6,032.3928	6,032.3928	1.0452	0.0000	6,058.5224
Maximum	32.7883	84.5757	52.7452	0.0692	18.2032	4.6027	21.5391	9.9670	4.3065	13.0360	0.0000	7,170.4535	7,170.4535	1.9597	0.0000	7,211.8462

	ROG	NOx	CO	SO2	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

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268
Energy	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Mobile	14.2617	51.0693	180.8204	0.2350	17.2852	0.9403	18.2254	4.6345	0.8947	5.5292		23,568.0845	23,568.0845	2.1878		23,622.7785
Total	29.6934	53.4775	209.0530	0.2497	17.2852	1.2504	18.5356	4.6345	1.2048	5.8393	0.0000	26,271.8034	26,271.8034	2.2922	0.0487	26,343.6212

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	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268
Energy	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Mobile	14.1378	50.2571	178.2954	0.2305	16.9395	0.9237	17.8632	4.5418	0.8789	5.4207		23,115.3611	23,115.3611	2.1537		23,169.2030
Total	29.5695	52.6653	206.5280	0.2452	16.9395	1.2338	18.1733	4.5418	1.1891	5.7308	0.0000	25,819.0801	25,819.0801	2.2581	0.0487	25,890.0458

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	0.42	1.52	1.21	1.80	2.00	1.33	1.95	2.00	1.31	1.86	0.00	1.72	1.72	1.49	0.00	1.72

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2010	7/14/2010	5	10	
2	Grading	Grading	7/15/2010	8/25/2010	5	30	
3	Building Construction	Building Construction	9/23/2010	11/16/2011	5	300	
4	Paving	Paving	8/26/2010	9/22/2010	5	20	
5	Architectural Coating	Architectural Coating	10/7/2010	11/30/2011	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 1,162,755; Residential Outdoor: 387,585; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

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

Trips and VMT

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	15	115.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	15	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	115.00	34.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2010

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.3797	58.9713	23.7522	0.0381		3.3340	3.3340		3.0673	3.0673		4,110.7425	4,110.7425	1.1966		4,140.6562
Total	5.3797	58.9713	23.7522	0.0381	18.0663	3.3340	21.4002	9.9307	3.0673	12.9979		4,110.7425	4,110.7425	1.1966		4,140.6562

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.2 Site Preparation - 2010

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	0.1859	0.1629	1.5205	1.5400e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		151.8887	151.8887	0.0117		152.1812
Total	0.1859	0.1629	1.5205	1.5400e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		151.8887	151.8887	0.0117		152.1812

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.3797	58.9713	23.7522	0.0381		3.3340	3.3340		3.0673	3.0673	0.0000	4,110.7425	4,110.7425	1.1966		4,140.6562
Total	5.3797	58.9713	23.7522	0.0381	18.0663	3.3340	21.4002	9.9307	3.0673	12.9979	0.0000	4,110.7425	4,110.7425	1.1966		4,140.6562

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.2 Site Preparation - 2010

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	0.1859	0.1629	1.5205	1.5400e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		151.8887	151.8887	0.0117		152.1812
Total	0.1859	0.1629	1.5205	1.5400e-003	0.1369	1.9000e-003	0.1388	0.0363	1.7600e-003	0.0381		151.8887	151.8887	0.0117		152.1812

3.3 Grading - 2010

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.6844	84.3947	44.2471	0.0621		3.8922	3.8922		3.5808	3.5808		6,687.7664	6,687.7664	1.9467		6,736.4330
Total	6.6844	84.3947	44.2471	0.0621	8.6733	3.8922	12.5656	3.5965	3.5808	7.1773		6,687.7664	6,687.7664	1.9467		6,736.4330

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.3 Grading - 2010

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	0.2066	0.1810	1.6894	1.7100e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		168.7652	168.7652	0.0130		169.0902
Total	0.2066	0.1810	1.6894	1.7100e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		168.7652	168.7652	0.0130		169.0902

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.6844	84.3947	44.2471	0.0621		3.8922	3.8922		3.5808	3.5808	0.0000	6,687.7664	6,687.7664	1.9467		6,736.4330
Total	6.6844	84.3947	44.2471	0.0621	8.6733	3.8922	12.5656	3.5965	3.5808	7.1773	0.0000	6,687.7664	6,687.7664	1.9467		6,736.4330

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.3 Grading - 2010

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	0.2066	0.1810	1.6894	1.7100e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		168.7652	168.7652	0.0130		169.0902
Total	0.2066	0.1810	1.6894	1.7100e-003	0.1521	2.1100e-003	0.1543	0.0404	1.9500e-003	0.0423		168.7652	168.7652	0.0130		169.0902

3.4 Building Construction - 2010

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	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692		2,753.9809	2,753.9809	0.7458		2,772.6260
Total	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692		2,753.9809	2,753.9809	0.7458		2,772.6260

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2010

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	0.8982	7.0907	6.7065	8.3300e-003	0.2048	0.2303	0.4351	0.0589	0.2204	0.2793		864.6032	864.6032	0.1108		867.3741
Worker	1.1878	1.0407	9.7140	9.8500e-003	0.8748	0.0121	0.8869	0.2321	0.0112	0.2433		970.4001	970.4001	0.0748		972.2689
Total	2.0860	8.1314	16.4205	0.0182	1.0796	0.2425	1.3220	0.2910	0.2316	0.5226		1,835.0033	1,835.0033	0.1856		1,839.6430

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	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692	0.0000	2,753.9809	2,753.9809	0.7458		2,772.6260
Total	4.7235	35.7390	19.6189	0.0270		2.6150	2.6150		2.4692	2.4692	0.0000	2,753.9809	2,753.9809	0.7458		2,772.6260

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2010

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	0.8982	7.0907	6.7065	8.3300e-003	0.2048	0.2303	0.4351	0.0589	0.2204	0.2793		864.6032	864.6032	0.1108		867.3741
Worker	1.1878	1.0407	9.7140	9.8500e-003	0.8748	0.0121	0.8869	0.2321	0.0112	0.2433		970.4001	970.4001	0.0748		972.2689
Total	2.0860	8.1314	16.4205	0.0182	1.0796	0.2425	1.3220	0.2910	0.2316	0.5226		1,835.0033	1,835.0033	0.1856		1,839.6430

3.4 Building Construction - 2011

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	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020		2,747.5797	2,747.5797	0.7333		2,765.9118
Total	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020		2,747.5797	2,747.5797	0.7333		2,765.9118

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2011

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	0.8722	7.3519	6.5094	8.3600e-003	0.2048	0.2219	0.4267	0.0590	0.2123	0.2713		868.4217	868.4217	0.1088		871.1404
Worker	1.1359	0.9650	9.0917	9.8400e-003	0.8748	0.0112	0.8860	0.2321	0.0103	0.2424		970.4288	970.4288	0.0694		972.1633
Total	2.0081	8.3169	15.6011	0.0182	1.0796	0.2331	1.3127	0.2910	0.2227	0.5137		1,838.8505	1,838.8505	0.1781		1,843.3037

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	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020	0.0000	2,747.5797	2,747.5797	0.7333		2,765.9118
Total	4.5267	34.7529	19.4761	0.0270		2.5450	2.5450		2.4020	2.4020	0.0000	2,747.5797	2,747.5797	0.7333		2,765.9118

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2011

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	0.8722	7.3519	6.5094	8.3600e-003	0.2048	0.2219	0.4267	0.0590	0.2123	0.2713		868.4217	868.4217	0.1088		871.1404
Worker	1.1359	0.9650	9.0917	9.8400e-003	0.8748	0.0112	0.8860	0.2321	0.0103	0.2424		970.4288	970.4288	0.0694		972.1633
Total	2.0081	8.3169	15.6011	0.0182	1.0796	0.2331	1.3127	0.2910	0.2227	0.5137		1,838.8505	1,838.8505	0.1781		1,843.3037

3.5 Paving - 2010

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	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734		5,208.8763	5,208.8763	1.4604		5,245.3856
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734		5,208.8763	5,208.8763	1.4604		5,245.3856

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2010

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	0.8982	7.0907	6.7065	8.3300e-003	0.3509	0.2303	0.5812	0.0948	0.2204	0.3152		864.6032	864.6032	0.1108		867.3741
Worker	1.3427	1.1765	10.9810	0.0111	1.8483	0.0137	1.8620	0.4733	0.0127	0.4860		1,096.9740	1,096.9740	0.0845		1,099.0866
Total	2.2409	8.2672	17.6876	0.0195	2.1991	0.2440	2.4432	0.5681	0.2331	0.8011		1,961.5772	1,961.5772	0.1953		1,966.4606

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	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734	0.0000	5,208.8763	5,208.8763	1.4604		5,245.3856
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	7.5401	66.8434	35.0577	0.0498		4.3587	4.3587		4.0734	4.0734	0.0000	5,208.8763	5,208.8763	1.4604		5,245.3856

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2010

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	0.8982	7.0907	6.7065	8.3300e-003	0.3509	0.2303	0.5812	0.0948	0.2204	0.3152		864.6032	864.6032	0.1108		867.3741
Worker	1.3427	1.1765	10.9810	0.0111	1.8483	0.0137	1.8620	0.4733	0.0127	0.4860		1,096.9740	1,096.9740	0.0845		1,099.0866
Total	2.2409	8.2672	17.6876	0.0195	2.1991	0.2440	2.4432	0.5681	0.2331	0.8011		1,961.5772	1,961.5772	0.1953		1,966.4606

3.6 Architectural Coating - 2010

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6007	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234		281.4481	281.4481	0.0540		282.7976
Total	24.5535	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234		281.4481	281.4481	0.0540		282.7976

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2010

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	1.4253	1.2489	11.6568	0.0118	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,164.480 1	1,164.480 1	0.0897		1,166.722 7
Total	1.4253	1.2489	11.6568	0.0118	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,164.480 1	1,164.480 1	0.0897		1,166.722 7

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.6007	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234	0.0000	281.4481	281.4481	0.0540		282.7976
Total	24.5535	3.5574	2.0028	2.9700e-003		0.3234	0.3234		0.3234	0.3234	0.0000	281.4481	281.4481	0.0540		282.7976

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2010

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	1.4253	1.2489	11.6568	0.0118	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,164.480 1	1,164.480 1	0.0897		1,166.722 7
Total	1.4253	1.2489	11.6568	0.0118	5.6111	0.0145	5.6256	1.3981	0.0135	1.4115		1,164.480 1	1,164.480 1	0.0897		1,166.722 7

3.6 Architectural Coating - 2011

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5646	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100		281.4481	281.4481	0.0505		282.7109
Total	24.5173	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100		281.4481	281.4481	0.0505		282.7109

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2011

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	1.3631	1.1580	10.9100	0.0118	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,164.5146	1,164.5146	0.0833		1,166.5960
Total	1.3631	1.1580	10.9100	0.0118	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,164.5146	1,164.5146	0.0833		1,166.5960

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	23.9528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5646	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100	0.0000	281.4481	281.4481	0.0505		282.7109
Total	24.5173	3.3702	1.9835	2.9700e-003		0.3100	0.3100		0.3100	0.3100	0.0000	281.4481	281.4481	0.0505		282.7109

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2011

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	1.3631	1.1580	10.9100	0.0118	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,164.5146	1,164.5146	0.0833		1,166.5960
Total	1.3631	1.1580	10.9100	0.0118	5.6111	0.0134	5.6244	1.3981	0.0124	1.4105		1,164.5146	1,164.5146	0.0833		1,166.5960

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	14.1378	50.2571	178.2954	0.2305	16.9395	0.9237	17.8632	4.5418	0.8789	5.4207		23,115.3611	23,115.3611	2.1537		23,169.2030
Unmitigated	14.2617	51.0693	180.8204	0.2350	17.2852	0.9403	18.2254	4.6345	0.8947	5.5292		23,568.0845	23,568.0845	2.1878		23,622.7785

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	3,024.12	3,161.29	2,749.78	7,709,937	7,555,738
Total	3,024.12	3,161.29	2,749.78	7,709,937	7,555,738

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	10.00	5.00	6.50	46.50	12.50	41.00	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	0.502136	0.056649	0.191270	0.153792	0.037722	0.007417	0.018605	0.017470	0.002459	0.003398	0.006873	0.000687	0.001521

5.0 Energy Detail

Historical Energy Use: N

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
NaturalGas Unmitigated	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160

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	22578.8	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Total		0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	22.5788	0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160
Total		0.2435	2.0808	0.8854	0.0133		0.1682	0.1682		0.1682	0.1682		2,656.3307	2,656.3307	0.0509	0.0487	2,672.1160

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	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268
Unmitigated	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	1.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9316	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419		47.3882	47.3882	0.0535		48.7268
Total	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, 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	1.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9316	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419		47.3882	47.3882	0.0535		48.7268
Total	15.1882	0.3274	27.3471	1.3900e-003		0.1419	0.1419		0.1419	0.1419	0.0000	47.3882	47.3882	0.0535	0.0000	48.7268

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Tanzanite Project - Original - Sacramento Metropolitan AQMD Air District, Winter

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Tanzanite Project - Original
Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	6	No Change	0.00
Generator Sets	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	12	No Change	0.00
Welders	Diesel	No Change	0	2	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	8.58100E-002	5.11330E-001	2.98120E-001	4.50000E-004	4.69200E-002	4.69200E-002	0.00000E+000	3.82988E+001	3.82988E+001	6.97000E-003	0.00000E+000	3.84731E+001
Cranes	1.14100E-001	1.37761E+000	4.69050E-001	8.10000E-004	6.29100E-002	5.78700E-002	0.00000E+000	7.87378E+001	7.87378E+001	2.29600E-002	0.00000E+000	7.93117E+001
Excavators	1.52900E-002	1.85190E-001	1.00620E-001	1.50000E-004	9.50000E-003	8.74000E-003	0.00000E+000	1.51315E+001	1.51315E+001	4.40000E-003	0.00000E+000	1.52416E+001
Forklifts	1.30410E-001	1.13171E+000	6.18410E-001	7.30000E-004	9.32900E-002	8.58300E-002	0.00000E+000	7.14945E+001	7.14945E+001	2.08500E-002	0.00000E+000	7.20157E+001
Generator Sets	1.67790E-001	1.10960E+000	6.40360E-001	1.05000E-003	8.76400E-002	8.76400E-002	0.00000E+000	9.04332E+001	9.04332E+001	1.36400E-002	0.00000E+000	9.07742E+001
Graders	7.26000E-003	1.16250E-001	2.91600E-002	1.00000E-004	3.68000E-003	3.39000E-003	0.00000E+000	9.75857E+000	9.75857E+000	2.84000E-003	0.00000E+000	9.82959E+000
Pavers	1.12200E-002	1.28440E-001	5.98300E-002	9.00000E-005	6.49000E-003	5.97000E-003	0.00000E+000	9.17845E+000	9.17845E+000	2.67000E-003	0.00000E+000	9.24524E+000
Paving Equipment	8.08000E-003	1.02170E-001	5.25800E-002	8.00000E-005	4.94000E-003	4.54000E-003	0.00000E+000	7.95922E+000	7.95922E+000	2.32000E-003	0.00000E+000	8.01714E+000
Rollers	8.87000E-003	8.04400E-002	4.19700E-002	5.00000E-005	6.01000E-003	5.53000E-003	0.00000E+000	5.13276E+000	5.13276E+000	1.49000E-003	0.00000E+000	5.17011E+000
Rubber Tired Dozers	3.69400E-002	4.29890E-001	1.40500E-001	2.60000E-004	2.05800E-002	1.89300E-002	0.00000E+000	2.50357E+001	2.50357E+001	7.29000E-003	0.00000E+000	2.52179E+001
Scrapers	4.66000E-002	6.29660E-001	3.90900E-001	4.50000E-004	2.53400E-002	2.33100E-002	0.00000E+000	4.44055E+001	4.44055E+001	1.29300E-002	0.00000E+000	4.47286E+001
Tractors/Loaders/Backhoes	1.93910E-001	1.84337E+000	1.13982E+000	1.47000E-003	1.47390E-001	1.35600E-001	0.00000E+000	1.43617E+002	1.43617E+002	4.18700E-002	0.00000E+000	1.44664E+002
Welders	1.48190E-001	3.43300E-001	3.76390E-001	4.10000E-004	3.51400E-002	3.51400E-002	0.00000E+000	3.01153E+001	3.01153E+001	1.21000E-002	0.00000E+000	3.04178E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	8.58100E-002	5.11330E-001	2.98120E-001	4.50000E-004	4.69200E-002	4.69200E-002	0.00000E+000	3.82988E+001	3.82988E+001	6.97000E-003	0.00000E+000	3.84731E+001
Cranes	1.14100E-001	1.37761E+000	4.69050E-001	8.10000E-004	6.29100E-002	5.78700E-002	0.00000E+000	7.87377E+001	7.87377E+001	2.29600E-002	0.00000E+000	7.93117E+001
Excavators	1.52900E-002	1.85190E-001	1.00620E-001	1.50000E-004	9.50000E-003	8.74000E-003	0.00000E+000	1.51315E+001	1.51315E+001	4.40000E-003	0.00000E+000	1.52416E+001
Forklifts	1.30410E-001	1.13171E+000	6.18410E-001	7.30000E-004	9.32900E-002	8.58300E-002	0.00000E+000	7.14944E+001	7.14944E+001	2.08500E-002	0.00000E+000	7.20156E+001
Generator Sets	1.67790E-001	1.10960E+000	6.40360E-001	1.05000E-003	8.76400E-002	8.76400E-002	0.00000E+000	9.04331E+001	9.04331E+001	1.36400E-002	0.00000E+000	9.07741E+001
Graders	7.26000E-003	1.16250E-001	2.91600E-002	1.00000E-004	3.68000E-003	3.39000E-003	0.00000E+000	9.75856E+000	9.75856E+000	2.84000E-003	0.00000E+000	9.82958E+000
Pavers	1.12200E-002	1.28440E-001	5.98300E-002	9.00000E-005	6.49000E-003	5.97000E-003	0.00000E+000	9.17844E+000	9.17844E+000	2.67000E-003	0.00000E+000	9.24523E+000
Paving Equipment	8.08000E-003	1.02170E-001	5.25800E-002	8.00000E-005	4.94000E-003	4.54000E-003	0.00000E+000	7.95921E+000	7.95921E+000	2.32000E-003	0.00000E+000	8.01713E+000
Rollers	8.87000E-003	8.04400E-002	4.19700E-002	5.00000E-005	6.01000E-003	5.53000E-003	0.00000E+000	5.13276E+000	5.13276E+000	1.49000E-003	0.00000E+000	5.17011E+000
Rubber Tired Dozers	3.69400E-002	4.29890E-001	1.40500E-001	2.60000E-004	2.05800E-002	1.89300E-002	0.00000E+000	2.50357E+001	2.50357E+001	7.29000E-003	0.00000E+000	2.52179E+001
Scrapers	4.66000E-002	6.29660E-001	3.90900E-001	4.50000E-004	2.53400E-002	2.33100E-002	0.00000E+000	4.44054E+001	4.44054E+001	1.29300E-002	0.00000E+000	4.47285E+001
Tractors/Loaders/Balckhoes	1.93910E-001	1.84337E+000	1.13982E+000	1.47000E-003	1.47390E-001	1.35600E-001	0.00000E+000	1.43617E+002	1.43617E+002	4.18700E-002	0.00000E+000	1.44663E+002
Welders	1.48190E-001	3.43300E-001	3.76390E-001	4.10000E-004	3.51400E-002	3.51400E-002	0.00000E+000	3.01153E+001	3.01153E+001	1.21000E-002	0.00000E+000	3.04177E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30552E-006	1.30552E-006	0.00000E+000	0.00000E+000	1.03969E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14303E-006	1.14303E-006	0.00000E+000	0.00000E+000	1.13476E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32175E-006	1.32175E-006	0.00000E+000	0.00000E+000	1.31220E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25884E-006	1.25884E-006	0.00000E+000	0.00000E+000	1.24973E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10579E-006	1.10579E-006	0.00000E+000	0.00000E+000	1.21180E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.02474E-006	1.02474E-006	0.00000E+000	0.00000E+000	1.01734E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08951E-006	1.08951E-006	0.00000E+000	0.00000E+000	1.08164E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25640E-006	1.25640E-006	0.00000E+000	0.00000E+000	1.24733E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19829E-006	1.19829E-006	0.00000E+000	0.00000E+000	1.18963E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12599E-006	1.12599E-006	0.00000E+000	0.00000E+000	1.11785E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18371E-006	1.18371E-006	0.00000E+000	0.00000E+000	1.17514E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32823E-006	1.32823E-006	0.00000E+000	0.00000E+000	1.31502E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.81	0.20	0.81	0.20	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.16	0.04	0.16	0.04	0.00	0.00
Grading	Fugitive Dust	0.13	0.05	0.13	0.05	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.02	0.01	0.02	0.01	0.00	0.00
Site Preparation	Fugitive Dust	0.09	0.05	0.09	0.05	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.85	1.58	1.48	1.90	1.79	1.79	0.00	1.92	1.92	1.61	0.00	1.92
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site	
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00		
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00	0.00	
No	Transit Improvements	Expand Transit Network	0.00	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00		0.00
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.02		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.02		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	150.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.69	Acre	3.69	160,736.40	0
City Park	1.13	Acre	1.13	49,222.80	0
Single Family Housing	206.00	Dwelling Unit	10.37	370,800.00	550
	0.00		0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2022
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	404.84	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor adjusted to represent SMUD's RPS projections.

Land Use - Acreage adjusted per Tentative Subdivision Map.

Construction Phase - Architectural Coating phase adjusted to start two weeks after the start of Building Construction.

Mobile Land Use Mitigation -

Energy Mitigation -

Vehicle Trips - City park trip rate set to zero because residents are anticipated to walk to neighborhood parks.

Single-family housing trip rate adjusted per information provided by the Public Works Dept.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	PhaseEndDate	11/16/2021	9/22/2020
tblConstructionPhase	PhaseEndDate	10/19/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	12/14/2021	11/30/2021
tblConstructionPhase	PhaseStartDate	10/20/2021	8/26/2020
tblConstructionPhase	PhaseStartDate	8/26/2020	9/23/2020
tblConstructionPhase	PhaseStartDate	11/17/2021	10/7/2020
tblLandUse	LotAcreage	66.88	10.37
tblProjectCharacteristics	CO2IntensityFactor	590.31	404.84
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	7.54

2.0 Emissions Summary

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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					
2020	0.7271	2.1058	1.8010	3.7900e-003	0.5117	0.0966	0.6082	0.1775	0.0900	0.2675	0.0000	337.6626	337.6626	0.0644	0.0000	339.2717
2021	2.2643	2.9155	3.3261	7.8600e-003	1.0660	0.1244	1.1904	0.2695	0.1176	0.3871	0.0000	703.9510	703.9510	0.0812	0.0000	705.9804
Maximum	2.2643	2.9155	3.3261	7.8600e-003	1.0660	0.1244	1.1904	0.2695	0.1176	0.3871	0.0000	703.9510	703.9510	0.0812	0.0000	705.9804

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					
2020	0.7271	2.1058	1.8010	3.7900e-003	0.5117	0.0966	0.6082	0.1775	0.0900	0.2675	0.0000	337.6624	337.6624	0.0644	0.0000	339.2714
2021	2.2643	2.9155	3.3261	7.8600e-003	1.0660	0.1244	1.1904	0.2695	0.1176	0.3871	0.0000	703.9507	703.9507	0.0812	0.0000	705.9800
Maximum	2.2643	2.9155	3.3261	7.8600e-003	1.0660	0.1244	1.1904	0.2695	0.1176	0.3871	0.0000	703.9507	703.9507	0.0812	0.0000	705.9800

	ROG	NOx	CO	SO2	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

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2020	9-30-2020	1.2969	1.2969
2	10-1-2020	12-31-2020	1.5286	1.5286
3	1-1-2021	3-31-2021	1.4400	1.4400
4	4-1-2021	6-30-2021	1.4508	1.4508
5	7-1-2021	9-30-2021	1.4667	1.4667
		Highest	1.5286	1.5286

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	1.7575	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540
Energy	0.0287	0.2452	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	603.4128	603.4128	0.0283	9.9400e-003	607.0832
Mobile	0.4836	2.1097	5.6878	0.0182	1.5835	0.0160	1.5994	0.4245	0.0149	0.4394	0.0000	1,672.8559	1,672.8559	0.0790	0.0000	1,674.8300
Waste						0.0000	0.0000		0.0000	0.0000	40.2125	0.0000	40.2125	2.3765	0.0000	99.6248
Water						0.0000	0.0000		0.0000	0.0000	4.7486	18.5841	23.3327	0.0177	0.0106	26.9341
Total	2.2698	2.3795	7.9190	0.0199	1.5835	0.0475	1.6310	0.4245	0.0465	0.4710	44.9611	2,298.3232	2,343.2843	2.5048	0.0205	2,412.0261

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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	1.7575	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540
Energy	0.0269	0.2299	0.0978	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.1870	266.1870	5.1000e-003	4.8800e-003	267.7688
Mobile	0.4802	2.0860	5.6011	0.0179	1.5518	0.0157	1.5675	0.4160	0.0147	0.4307	0.0000	1,641.421 2	1,641.421 2	0.0777	0.0000	1,643.364 3
Waste						0.0000	0.0000		0.0000	0.0000	40.2125	0.0000	40.2125	2.3765	0.0000	99.6248
Water						0.0000	0.0000		0.0000	0.0000	4.7486	18.5841	23.3327	0.0177	0.0106	26.9341
Total	2.2646	2.3404	7.8257	0.0194	1.5518	0.0460	1.5978	0.4160	0.0450	0.4610	44.9611	1,929.662 7	1,974.623 8	2.4803	0.0155	2,041.246 0

	ROG	NOx	CO	SO2	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	0.23	1.64	1.18	2.21	2.00	3.22	2.04	2.00	3.25	2.12	0.00	16.04	15.73	0.98	24.63	15.37

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Grading	Grading	7/15/2020	8/25/2020	5	30	
3	Building Construction	Building Construction	9/23/2020	11/16/2021	5	300	
4	Paving	Paving	8/26/2020	9/22/2020	5	20	
5	Architectural Coating	Architectural Coating	10/7/2020	11/30/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.69

Residential Indoor: 750,870; Residential Outdoor: 250,290; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,644 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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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
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	162.00	56.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.3000e-004	2.4900e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5857	0.5857	2.0000e-005	0.0000	0.5861
Total	3.4000e-004	2.3000e-004	2.4900e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5857	0.5857	2.0000e-005	0.0000	0.5861

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.3000e-004	2.4900e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5857	0.5857	2.0000e-005	0.0000	0.5861
Total	3.4000e-004	2.3000e-004	2.4900e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5857	0.5857	2.0000e-005	0.0000	0.5861

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

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3.3 Grading - 2020

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	1.1200e-003	7.6000e-004	8.3000e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.9522	1.9522	6.0000e-005	0.0000	1.9536
Total	1.1200e-003	7.6000e-004	8.3000e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.9522	1.9522	6.0000e-005	0.0000	1.9536

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

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3.3 Grading - 2020

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	1.1200e-003	7.6000e-004	8.3000e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.9522	1.9522	6.0000e-005	0.0000	1.9536
Total	1.1200e-003	7.6000e-004	8.3000e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.9522	1.9522	6.0000e-005	0.0000	1.9536

3.4 Building Construction - 2020

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	0.0763	0.6907	0.6066	9.7000e-004		0.0402	0.0402		0.0378	0.0378	0.0000	83.3796	83.3796	0.0203	0.0000	83.8881
Total	0.0763	0.6907	0.6066	9.7000e-004		0.0402	0.0402		0.0378	0.0378	0.0000	83.3796	83.3796	0.0203	0.0000	83.8881

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3.4 Building Construction - 2020

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	7.7200e-003	0.2261	0.0631	5.0000e-004	0.0118	1.1700e-003	0.0130	3.4100e-003	1.1200e-003	4.5300e-003	0.0000	47.7013	47.7013	2.8200e-003	0.0000	47.7719
Worker	0.0217	0.0147	0.1614	4.2000e-004	0.0428	3.1000e-004	0.0431	0.0114	2.8000e-004	0.0117	0.0000	37.9509	37.9509	1.0700e-003	0.0000	37.9778
Total	0.0294	0.2408	0.2245	9.2000e-004	0.0546	1.4800e-003	0.0561	0.0148	1.4000e-003	0.0162	0.0000	85.6522	85.6522	3.8900e-003	0.0000	85.7496

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	0.0763	0.6907	0.6066	9.7000e-004		0.0402	0.0402		0.0378	0.0378	0.0000	83.3795	83.3795	0.0203	0.0000	83.8880
Total	0.0763	0.6907	0.6066	9.7000e-004		0.0402	0.0402		0.0378	0.0378	0.0000	83.3795	83.3795	0.0203	0.0000	83.8880

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3.4 Building Construction - 2020

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	7.7200e-003	0.2261	0.0631	5.0000e-004	0.0118	1.1700e-003	0.0130	3.4100e-003	1.1200e-003	4.5300e-003	0.0000	47.7013	47.7013	2.8200e-003	0.0000	47.7719
Worker	0.0217	0.0147	0.1614	4.2000e-004	0.0428	3.1000e-004	0.0431	0.0114	2.8000e-004	0.0117	0.0000	37.9509	37.9509	1.0700e-003	0.0000	37.9778
Total	0.0294	0.2408	0.2245	9.2000e-004	0.0546	1.4800e-003	0.0561	0.0148	1.4000e-003	0.0162	0.0000	85.6522	85.6522	3.8900e-003	0.0000	85.7496

3.4 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	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0665	264.0665	0.0637	0.0000	265.6592
Total	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0665	264.0665	0.0637	0.0000	265.6592

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3.4 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	0.0201	0.6531	0.1746	1.5600e-003	0.0373	1.8000e-003	0.0391	0.0108	1.7300e-003	0.0125	0.0000	149.7971	149.7971	8.5600e-003	0.0000	150.0112
Worker	0.0640	0.0418	0.4674	1.2800e-003	0.1356	9.5000e-004	0.1366	0.0361	8.7000e-004	0.0370	0.0000	116.0860	116.0860	3.0500e-003	0.0000	116.1622
Total	0.0840	0.6949	0.6420	2.8400e-003	0.1730	2.7500e-003	0.1757	0.0469	2.6000e-003	0.0495	0.0000	265.8831	265.8831	0.0116	0.0000	266.1734

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	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0662	264.0662	0.0637	0.0000	265.6589
Total	0.2167	1.9873	1.8896	3.0700e-003		0.1093	0.1093		0.1028	0.1028	0.0000	264.0662	264.0662	0.0637	0.0000	265.6589

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3.4 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	0.0201	0.6531	0.1746	1.5600e-003	0.0373	1.8000e-003	0.0391	0.0108	1.7300e-003	0.0125	0.0000	149.7971	149.7971	8.5600e-003	0.0000	150.0112
Worker	0.0640	0.0418	0.4674	1.2800e-003	0.1356	9.5000e-004	0.1366	0.0361	8.7000e-004	0.0370	0.0000	116.0860	116.0860	3.0500e-003	0.0000	116.1622
Total	0.0840	0.6949	0.6420	2.8400e-003	0.1730	2.7500e-003	0.1757	0.0469	2.6000e-003	0.0495	0.0000	265.8831	265.8831	0.0116	0.0000	266.1734

3.5 Paving - 2020

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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	4.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0184	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

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3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.8000e-004	4.1500e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9761	0.9761	3.0000e-005	0.0000	0.9768
Total	5.6000e-004	3.8000e-004	4.1500e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9761	0.9761	3.0000e-005	0.0000	0.9768

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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	4.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0184	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

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3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.8000e-004	4.1500e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9761	0.9761	3.0000e-005	0.0000	0.9768
Total	5.6000e-004	3.8000e-004	4.1500e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9761	0.9761	3.0000e-005	0.0000	0.9768

3.6 Architectural Coating - 2020

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	0.4841					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5100e-003	0.0522	0.0568	9.0000e-005		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003	0.0000	7.9151	7.9151	6.1000e-004	0.0000	7.9304
Total	0.4916	0.0522	0.0568	9.0000e-005		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003	0.0000	7.9151	7.9151	6.1000e-004	0.0000	7.9304

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3.6 Architectural Coating - 2020

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	0.0222	0.0150	0.1648	4.3000e-004	0.2326	3.1000e-004	0.2329	0.0580	2.9000e-004	0.0583	0.0000	38.7318	38.7318	1.1000e-003	0.0000	38.7592
Total	0.0222	0.0150	0.1648	4.3000e-004	0.2326	3.1000e-004	0.2329	0.0580	2.9000e-004	0.0583	0.0000	38.7318	38.7318	1.1000e-003	0.0000	38.7592

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	0.4841					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5100e-003	0.0522	0.0568	9.0000e-005		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003	0.0000	7.9151	7.9151	6.1000e-004	0.0000	7.9304
Total	0.4916	0.0522	0.0568	9.0000e-005		3.4400e-003	3.4400e-003		3.4400e-003	3.4400e-003	0.0000	7.9151	7.9151	6.1000e-004	0.0000	7.9304

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3.6 Architectural Coating - 2020

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	0.0222	0.0150	0.1648	4.3000e-004	0.2326	3.1000e-004	0.2329	0.0580	2.9000e-004	0.0583	0.0000	38.7318	38.7318	1.1000e-003	0.0000	38.7592
Total	0.0222	0.0150	0.1648	4.3000e-004	0.2326	3.1000e-004	0.2329	0.0580	2.9000e-004	0.0583	0.0000	38.7318	38.7318	1.1000e-003	0.0000	38.7592

3.6 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	1.8584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0261	0.1817	0.2163	3.5000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	30.3837	30.3837	2.0900e-003	0.0000	30.4359
Total	1.8845	0.1817	0.2163	3.5000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	30.3837	30.3837	2.0900e-003	0.0000	30.4359

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3.6 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	0.0791	0.0517	0.5783	1.5900e-003	0.8930	1.1700e-003	0.8942	0.2226	1.0800e-003	0.2237	0.0000	143.6177	143.6177	3.7700e-003	0.0000	143.7120
Total	0.0791	0.0517	0.5783	1.5900e-003	0.8930	1.1700e-003	0.8942	0.2226	1.0800e-003	0.2237	0.0000	143.6177	143.6177	3.7700e-003	0.0000	143.7120

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	1.8584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0261	0.1817	0.2163	3.5000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	30.3837	30.3837	2.0900e-003	0.0000	30.4358
Total	1.8845	0.1817	0.2163	3.5000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	30.3837	30.3837	2.0900e-003	0.0000	30.4358

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3.6 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	0.0791	0.0517	0.5783	1.5900e-003	0.8930	1.1700e-003	0.8942	0.2226	1.0800e-003	0.2237	0.0000	143.6177	143.6177	3.7700e-003	0.0000	143.7120
Total	0.0791	0.0517	0.5783	1.5900e-003	0.8930	1.1700e-003	0.8942	0.2226	1.0800e-003	0.2237	0.0000	143.6177	143.6177	3.7700e-003	0.0000	143.7120

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

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	ROG	NOx	CO	SO2	Fugitive 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	0.4802	2.0860	5.6011	0.0179	1.5518	0.0157	1.5675	0.4160	0.0147	0.4307	0.0000	1,641.421 2	1,641.421 2	0.0777	0.0000	1,643.364 3
Unmitigated	0.4836	2.1097	5.6878	0.0182	1.5835	0.0160	1.5994	0.4245	0.0149	0.4394	0.0000	1,672.855 9	1,672.855 9	0.0790	0.0000	1,674.830 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,553.24	2,041.46	1,775.72	4,246,317	4,161,390
Total	1,553.24	2,041.46	1,775.72	4,246,317	4,161,390

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
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Other Asphalt Surfaces	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Single Family Housing	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	319.4135	319.4135	0.0229	4.7300e-003	321.3962
NaturalGas Mitigated	0.0269	0.2299	0.0978	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.1870	266.1870	5.1000e-003	4.8800e-003	267.7688
NaturalGas Unmitigated	0.0287	0.2452	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.9993	283.9993	5.4400e-003	5.2100e-003	285.6870

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.32195e+006	0.0287	0.2452	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.9993	283.9993	5.4400e-003	5.2100e-003	285.6870
Total		0.0287	0.2452	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.9993	283.9993	5.4400e-003	5.2100e-003	285.6870

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.98816e+006	0.0269	0.2299	0.0978	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.1870	266.1870	5.1000e-003	4.8800e-003	267.7688
Total		0.0269	0.2299	0.0978	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.1870	266.1870	5.1000e-003	4.8800e-003	267.7688

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.73942e+006	319.4135	0.0229	4.7300e-003	321.3962
Total		319.4135	0.0229	4.7300e-003	321.3962

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

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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	1.7575	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540
Unmitigated	1.7575	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2343					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0642	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540
Total	1.7575	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2343					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0642	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540
Total	1.7575	0.0245	2.1268	1.1000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	3.4703	3.4703	3.3500e-003	0.0000	3.5540

7.0 Water Detail

7.1 Mitigation Measures Water

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.3327	0.0177	0.0106	26.9341
Unmitigated	23.3327	0.0177	0.0106	26.9341

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.34637	0.8653	6.0000e-005	1.0000e-005	0.8707
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.4217 / 8.46152	22.4674	0.0176	0.0106	26.0634
Total		23.3327	0.0177	0.0106	26.9341

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.34637	0.8653	6.0000e-005	1.0000e-005	0.8707
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.4217 / 8.46152	22.4674	0.0176	0.0106	26.0634
Total		23.3327	0.0177	0.0106	26.9341

8.0 Waste Detail

8.1 Mitigation Measures Waste

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.2125	2.3765	0.0000	99.6248
Unmitigated	40.2125	2.3765	0.0000	99.6248

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.1	0.0203	1.2000e-003	0.0000	0.0503
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	198	40.1922	2.3753	0.0000	99.5745
Total		40.2125	2.3765	0.0000	99.6248

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.1	0.0203	1.2000e-003	0.0000	0.0503
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	198	40.1922	2.3753	0.0000	99.5745
Total		40.2125	2.3765	0.0000	99.6248

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Annual

11.0 Vegetation

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

Tanzanite Project - Proposed
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.69	Acre	3.69	160,736.40	0
City Park	1.13	Acre	1.13	49,222.80	0
Single Family Housing	206.00	Dwelling Unit	10.37	370,800.00	550
	0.00		0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2022
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	404.84	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor adjusted to represent SMUD's RPS projections.

Land Use - Acreage adjusted per Tentative Subdivision Map.

Construction Phase - Architectural Coating phase adjusted to start two weeks after the start of Building Construction.

Mobile Land Use Mitigation -

Energy Mitigation -

Vehicle Trips - City park trip rate set to zero because residents are anticipated to walk to neighborhood parks.

Single-family housing trip rate adjusted per information provided by the Public Works Dept.

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	PhaseEndDate	11/16/2021	9/22/2020
tblConstructionPhase	PhaseEndDate	10/19/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	12/14/2021	11/30/2021
tblConstructionPhase	PhaseStartDate	10/20/2021	8/26/2020
tblConstructionPhase	PhaseStartDate	8/26/2020	9/23/2020
tblConstructionPhase	PhaseStartDate	11/17/2021	10/7/2020
tblLandUse	LotAcreage	66.88	10.37
tblProjectCharacteristics	CO2IntensityFactor	590.31	404.84
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	7.54

2.0 Emissions Summary

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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					
2020	19.7166	50.2433	32.6113	0.0721	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	7,120.0174	7,120.0174	1.9470	0.0000	7,140.2371
2021	19.3286	25.3099	30.4191	0.0710	9.3760	1.0863	10.4623	2.3690	1.0269	3.3958	0.0000	7,012.4240	7,012.4240	0.7876	0.0000	7,032.1130
Maximum	19.7166	50.2433	32.6113	0.0721	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	7,120.0174	7,120.0174	1.9470	0.0000	7,140.2371

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					
2020	19.7166	50.2433	32.6113	0.0721	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	7,120.0174	7,120.0174	1.9470	0.0000	7,140.2371
2021	19.3286	25.3099	30.4191	0.0710	9.3760	1.0863	10.4623	2.3690	1.0269	3.3958	0.0000	7,012.4240	7,012.4240	0.7876	0.0000	7,032.1130
Maximum	19.7166	50.2433	32.6113	0.0721	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	7,120.0174	7,120.0174	1.9470	0.0000	7,140.2371

	ROG	NOx	CO	SO2	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

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410
Energy	0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671
Mobile	4.1358	13.7328	43.4162	0.1335	11.1114	0.1076	11.2190	2.9704	0.1007	3.0710		13,518.1454	13,518.1454	0.6065		13,533.3081
Total	14.0852	15.2727	61.0021	0.1430	11.1114	0.3103	11.4216	2.9704	0.3033	3.2737	0.0000	15,264.1217	15,264.1217	0.6689	0.0315	15,290.2162

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	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410
Energy	0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404
Mobile	4.1114	13.5843	42.7008	0.1310	10.8892	0.1057	10.9949	2.9110	0.0989	3.0099		13,263.4480	13,263.4480	0.5967		13,278.3647
Total	14.0509	15.0399	60.2508	0.1399	10.8892	0.3016	11.1907	2.9110	0.2948	3.2057	0.0000	14,901.8370	14,901.8370	0.6570	0.0295	14,927.0461

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	0.24	1.52	1.23	2.14	2.00	2.80	2.02	2.00	2.83	2.08	0.00	2.37	2.37	1.78	6.26	2.38

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Grading	Grading	7/15/2020	8/25/2020	5	30	
3	Building Construction	Building Construction	9/23/2020	11/16/2021	5	300	
4	Paving	Paving	8/26/2020	9/22/2020	5	20	
5	Architectural Coating	Architectural Coating	10/7/2020	11/30/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.69

Residential Indoor: 750,870; Residential Outdoor: 250,290; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,644 (Architectural Coating – sqft)

OffRoad Equipment

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

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

Trips and VMT

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	162.00	56.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.2 Site Preparation - 2020

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	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
Total	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.2 Site Preparation - 2020

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	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
Total	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.3 Grading - 2020

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	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
Total	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.3 Grading - 2020

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	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
Total	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163

3.4 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2020

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	0.2112	6.1490	1.6527	0.0140	0.3370	0.0321	0.3691	0.0970	0.0307	0.1276		1,476.4704	1,476.4704	0.0837		1,478.5620
Worker	0.6986	0.3707	5.2893	0.0129	1.2323	8.5700e-003	1.2409	0.3269	7.9000e-003	0.3348		1,285.4910	1,285.4910	0.0368		1,286.4117
Total	0.9097	6.5197	6.9420	0.0269	1.5693	0.0406	1.6100	0.4239	0.0386	0.4624		2,761.9614	2,761.9614	0.1205		2,764.9737

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2020

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	0.2112	6.1490	1.6527	0.0140	0.3370	0.0321	0.3691	0.0970	0.0307	0.1276		1,476.470 4	1,476.470 4	0.0837		1,478.562 0
Worker	0.6986	0.3707	5.2893	0.0129	1.2323	8.5700e-003	1.2409	0.3269	7.9000e-003	0.3348		1,285.491 0	1,285.491 0	0.0368		1,286.4117
Total	0.9097	6.5197	6.9420	0.0269	1.5693	0.0406	1.6100	0.4239	0.0386	0.4624		2,761.961 4	2,761.961 4	0.1205		2,764.973 7

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.4 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	0.1731	5.6247	1.4363	0.0138	0.3370	0.0154	0.3524	0.0970	0.0148	0.1117		1,464.2763	1,464.2763	0.0800		1,466.2770
Worker	0.6493	0.3324	4.8463	0.0125	1.2323	8.3200e-003	1.2407	0.3269	7.6700e-003	0.3346		1,241.6960	1,241.6960	0.0330		1,242.5221
Total	0.8223	5.9570	6.2826	0.0263	1.5693	0.0238	1.5930	0.4239	0.0224	0.4463		2,705.9723	2,705.9723	0.1131		2,708.7991

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.4 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	0.1731	5.6247	1.4363	0.0138	0.3370	0.0154	0.3524	0.0970	0.0148	0.1117		1,464.2763	1,464.2763	0.0800		1,466.2770
Worker	0.6493	0.3324	4.8463	0.0125	1.2323	8.3200e-003	1.2407	0.3269	7.6700e-003	0.3346		1,241.6960	1,241.6960	0.0330		1,242.5221
Total	0.8223	5.9570	6.2826	0.0263	1.5693	0.0238	1.5930	0.4239	0.0224	0.4463		2,705.9723	2,705.9723	0.1131		2,708.7991

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8399	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2020

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	0.0647	0.0343	0.4898	1.2000e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		119.0269	119.0269	3.4100e-003		119.1122
Total	0.0647	0.0343	0.4898	1.2000e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		119.0269	119.0269	3.4100e-003		119.1122

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8399	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2020

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	0.0647	0.0343	0.4898	1.2000e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		119.0269	119.0269	3.4100e-003		119.1122
Total	0.0647	0.0343	0.4898	1.2000e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		119.0269	119.0269	3.4100e-003		119.1122

3.6 Architectural Coating - 2020

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	15.6169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	15.8591	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2020

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	0.8279	0.4393	6.2688	0.0153	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,523.5449	1,523.5449	0.0437		1,524.6361
Total	0.8279	0.4393	6.2688	0.0153	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,523.5449	1,523.5449	0.0437		1,524.6361

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	15.6169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	15.8591	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2020

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	0.8279	0.4393	6.2688	0.0153	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,523.5449	1,523.5449	0.0437		1,524.6361
Total	0.8279	0.4393	6.2688	0.0153	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,523.5449	1,523.5449	0.0437		1,524.6361

3.6 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	15.6169					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
Total	15.8358	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.6 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	0.7695	0.3939	5.7438	0.0148	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,471.6398	1,471.6398	0.0392		1,472.6187
Total	0.7695	0.3939	5.7438	0.0148	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,471.6398	1,471.6398	0.0392		1,472.6187

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	15.6169					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
Total	15.8358	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

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

3.6 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	0.7695	0.3939	5.7438	0.0148	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,471.6398	1,471.6398	0.0392		1,472.6187
Total	0.7695	0.3939	5.7438	0.0148	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,471.6398	1,471.6398	0.0392		1,472.6187

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	4.1114	13.5843	42.7008	0.1310	10.8892	0.1057	10.9949	2.9110	0.0989	3.0099		13,263.44 80	13,263.44 80	0.5967		13,278.36 47
Unmitigated	4.1358	13.7328	43.4162	0.1335	11.1114	0.1076	11.2190	2.9704	0.1007	3.0710		13,518.14 54	13,518.14 54	0.6065		13,533.30 81

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,553.24	2,041.46	1,775.72	4,246,317	4,161,390
Total	1,553.24	2,041.46	1,775.72	4,246,317	4,161,390

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
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Other Asphalt Surfaces	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Single Family Housing	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable 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	0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404
NaturalGas Unmitigated	0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	14580.7	0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671
Total		0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.6662	0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404
Total		0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404

6.0 Area Detail

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

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	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410
Unmitigated	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	1.2836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5139	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940		30.6028	30.6028	0.0295		31.3410
Total	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	1.2836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5139	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940		30.6028	30.6028	0.0295		31.3410
Total	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Summer

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

Tanzanite Project - Proposed
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.69	Acre	3.69	160,736.40	0
City Park	1.13	Acre	1.13	49,222.80	0
Single Family Housing	206.00	Dwelling Unit	10.37	370,800.00	550
	0.00		0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2022
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	404.84	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor adjusted to represent SMUD's RPS projections.

Land Use - Acreage adjusted per Tentative Subdivision Map.

Construction Phase - Architectural Coating phase adjusted to start two weeks after the start of Building Construction.

Mobile Land Use Mitigation -

Energy Mitigation -

Vehicle Trips - City park trip rate set to zero because residents are anticipated to walk to neighborhood parks.

Single-family housing trip rate adjusted per information provided by the Public Works Dept.

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	PhaseEndDate	11/16/2021	9/22/2020
tblConstructionPhase	PhaseEndDate	10/19/2021	11/16/2021
tblConstructionPhase	PhaseEndDate	12/14/2021	11/30/2021
tblConstructionPhase	PhaseStartDate	10/20/2021	8/26/2020
tblConstructionPhase	PhaseStartDate	8/26/2020	9/23/2020
tblConstructionPhase	PhaseStartDate	11/17/2021	10/7/2020
tblLandUse	LotAcreage	66.88	10.37
tblProjectCharacteristics	CO2IntensityFactor	590.31	404.84
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	7.54

2.0 Emissions Summary

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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					
2020	19.6060	50.2541	32.5174	0.0683	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,740.2053	6,740.2053	1.9464	0.0000	6,760.3583
2021	19.2266	25.5731	29.0913	0.0673	9.3760	1.0873	10.4633	2.3690	1.0278	3.3968	0.0000	6,644.4250	6,644.4250	0.7855	0.0000	6,664.0625
Maximum	19.6060	50.2541	32.5174	0.0683	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,740.2053	6,740.2053	1.9464	0.0000	6,760.3583

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					
2020	19.6060	50.2541	32.5174	0.0683	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,740.2053	6,740.2053	1.9464	0.0000	6,760.3583
2021	19.2266	25.5731	29.0913	0.0673	9.3760	1.0873	10.4633	2.3690	1.0278	3.3968	0.0000	6,644.4250	6,644.4250	0.7855	0.0000	6,664.0625
Maximum	19.6060	50.2541	32.5174	0.0683	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,740.2053	6,740.2053	1.9464	0.0000	6,760.3583

	ROG	NOx	CO	SO2	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

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410
Energy	0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671
Mobile	3.1010	14.7031	39.9192	0.1205	11.1114	0.1091	11.2205	2.9704	0.1021	3.0724		12,215.6259	12,215.6259	0.6006		12,230.6413
Total	13.0504	16.2430	57.5051	0.1300	11.1114	0.3117	11.4231	2.9704	0.3047	3.2751	0.0000	13,961.6022	13,961.6022	0.6630	0.0315	13,987.5494

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	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410
Energy	0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404
Mobile	3.0777	14.5342	39.3472	0.1182	10.8892	0.1072	10.9964	2.9110	0.1003	3.0113		11,985.7035	11,985.7035	0.5914		12,000.4896
Total	13.0172	15.9899	56.8971	0.1272	10.8892	0.3031	11.1922	2.9110	0.2962	3.2071	0.0000	13,624.0925	13,624.0925	0.6518	0.0295	13,649.1710

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	0.25	1.56	1.06	2.16	2.00	2.79	2.02	2.00	2.81	2.08	0.00	2.42	2.42	1.70	6.26	2.42

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2020	7/14/2020	5	10	
2	Grading	Grading	7/15/2020	8/25/2020	5	30	
3	Building Construction	Building Construction	9/23/2020	11/16/2021	5	300	
4	Paving	Paving	8/26/2020	9/22/2020	5	20	
5	Architectural Coating	Architectural Coating	10/7/2020	11/30/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.69

Residential Indoor: 750,870; Residential Outdoor: 250,290; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,644 (Architectural Coating – sqft)

OffRoad Equipment

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

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

Trips and VMT

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	162.00	56.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	32.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.2 Site Preparation - 2020

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	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
Total	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.2 Site Preparation - 2020

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	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
Total	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.3 Grading - 2020

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	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
Total	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

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3.3 Grading - 2020

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	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
Total	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779

3.4 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2020

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	0.2224	6.2746	1.9011	0.0136	0.3370	0.0331	0.3701	0.0970	0.0317	0.1287		1,438.7089	1,438.7089	0.0905		1,440.9724
Worker	0.6428	0.4580	4.5290	0.0113	1.2323	8.5700e-003	1.2409	0.3269	7.9000e-003	0.3348		1,128.9594	1,128.9594	0.0325		1,129.7709
Total	0.8652	6.7326	6.4301	0.0249	1.5693	0.0417	1.6110	0.4239	0.0396	0.4635		2,567.6683	2,567.6683	0.1230		2,570.7433

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2020

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	0.2224	6.2746	1.9011	0.0136	0.3370	0.0331	0.3701	0.0970	0.0317	0.1287		1,438.7089	1,438.7089	0.0905		1,440.9724
Worker	0.6428	0.4580	4.5290	0.0113	1.2323	8.5700e-003	1.2409	0.3269	7.9000e-003	0.3348		1,128.9594	1,128.9594	0.0325		1,129.7709
Total	0.8652	6.7326	6.4301	0.0249	1.5693	0.0417	1.6110	0.4239	0.0396	0.4635		2,567.6683	2,567.6683	0.1230		2,570.7433

3.4 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.4 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	0.1833	5.7172	1.6658	0.0135	0.3370	0.0164	0.3534	0.0970	0.0157	0.1126		1,426.6116	1,426.6116	0.0867		1,428.7783
Worker	0.5979	0.4105	4.1336	0.0110	1.2323	8.3200e-003	1.2407	0.3269	7.6700e-003	0.3346		1,090.5261	1,090.5261	0.0291		1,091.2526
Total	0.7812	6.1277	5.7994	0.0244	1.5693	0.0247	1.5940	0.4239	0.0233	0.4472		2,517.1377	2,517.1377	0.1157		2,520.0309

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 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	0.1833	5.7172	1.6658	0.0135	0.3370	0.0164	0.3534	0.0970	0.0157	0.1126		1,426.6116	1,426.6116	0.0867		1,428.7783
Worker	0.5979	0.4105	4.1336	0.0110	1.2323	8.3200e-003	1.2407	0.3269	7.6700e-003	0.3346		1,090.5261	1,090.5261	0.0291		1,091.2526
Total	0.7812	6.1277	5.7994	0.0244	1.5693	0.0247	1.5940	0.4239	0.0233	0.4472		2,517.1377	2,517.1377	0.1157		2,520.0309

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8399	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2020

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	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084
Total	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.4834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8399	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2020

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	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084
Total	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084

3.6 Architectural Coating - 2020

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	15.6169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	15.8591	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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3.6 Architectural Coating - 2020

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	0.7618	0.5428	5.3677	0.0134	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,338.0260	1,338.0260	0.0385		1,338.9877
Total	0.7618	0.5428	5.3677	0.0134	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,338.0260	1,338.0260	0.0385		1,338.9877

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	15.6169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	15.8591	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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3.6 Architectural Coating - 2020

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	0.7618	0.5428	5.3677	0.0134	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,338.0260	1,338.0260	0.0385		1,338.9877
Total	0.7618	0.5428	5.3677	0.0134	7.8067	0.0102	7.8168	1.9451	9.3600e-003	1.9545		1,338.0260	1,338.0260	0.0385		1,338.9877

3.6 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	15.6169					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
Total	15.8358	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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3.6 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	0.7086	0.4865	4.8991	0.0130	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,292.4754	1,292.4754	0.0344		1,293.3364
Total	0.7086	0.4865	4.8991	0.0130	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,292.4754	1,292.4754	0.0344		1,293.3364

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	15.6169					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
Total	15.8358	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

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3.6 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	0.7086	0.4865	4.8991	0.0130	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,292.4754	1,292.4754	0.0344		1,293.3364
Total	0.7086	0.4865	4.8991	0.0130	7.8067	9.8600e-003	7.8165	1.9451	9.0800e-003	1.9542		1,292.4754	1,292.4754	0.0344		1,293.3364

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	3.0777	14.5342	39.3472	0.1182	10.8892	0.1072	10.9964	2.9110	0.1003	3.0113		11,985.7035	11,985.7035	0.5914		12,000.4896
Unmitigated	3.1010	14.7031	39.9192	0.1205	11.1114	0.1091	11.2205	2.9704	0.1021	3.0724		12,215.6259	12,215.6259	0.6006		12,230.6413

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,553.24	2,041.46	1,775.72	4,246,317	4,161,390
Total	1,553.24	2,041.46	1,775.72	4,246,317	4,161,390

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
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Other Asphalt Surfaces	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
Single Family Housing	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865
	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable 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	0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404
NaturalGas Unmitigated	0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	14580.7	0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671
Total		0.1572	1.3437	0.5718	8.5800e-003		0.1086	0.1086		0.1086	0.1086		1,715.3735	1,715.3735	0.0329	0.0315	1,725.5671

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.6662	0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404
Total		0.1474	1.2594	0.5359	8.0400e-003		0.1018	0.1018		0.1018	0.1018		1,607.7861	1,607.7861	0.0308	0.0295	1,617.3404

6.0 Area Detail

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

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	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410
Unmitigated	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	1.2836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5139	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940		30.6028	30.6028	0.0295		31.3410
Total	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, 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	1.2836					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5139	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940		30.6028	30.6028	0.0295		31.3410
Total	9.7921	0.1962	17.0141	9.0000e-004		0.0940	0.0940		0.0940	0.0940	0.0000	30.6028	30.6028	0.0295	0.0000	31.3410

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Tanzanite Project - Proposed - Sacramento Metropolitan AQMD Air District, Winter

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Tanzanite Project - Proposed
Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.35600E-002	2.33890E-001	2.73060E-001	4.50000E-004	1.46400E-002	1.46400E-002	0.00000E+000	3.82988E+001	3.82988E+001	2.70000E-003	0.00000E+000	3.83663E+001
Cranes	5.54700E-002	6.53550E-001	2.64420E-001	7.60000E-004	2.66400E-002	2.45100E-002	0.00000E+000	6.65294E+001	6.65294E+001	2.15200E-002	0.00000E+000	6.70673E+001
Excavators	7.35000E-003	7.23800E-002	9.80300E-002	1.50000E-004	3.51000E-003	3.23000E-003	0.00000E+000	1.36110E+001	1.36110E+001	4.40000E-003	0.00000E+000	1.37211E+001
Forklifts	5.97800E-002	5.43390E-001	5.26870E-001	6.90000E-004	3.90600E-002	3.59400E-002	0.00000E+000	6.04311E+001	6.04311E+001	1.95400E-002	0.00000E+000	6.09197E+001
Generator Sets	5.51100E-002	4.86170E-001	5.53460E-001	9.90000E-004	2.61900E-002	2.61900E-002	0.00000E+000	8.47811E+001	8.47811E+001	4.43000E-003	0.00000E+000	8.48920E+001
Graders	7.14000E-003	9.48800E-002	2.72200E-002	1.00000E-004	3.03000E-003	2.79000E-003	0.00000E+000	8.74597E+000	8.74597E+000	2.83000E-003	0.00000E+000	8.81668E+000
Pavers	5.25000E-003	5.62100E-002	5.79700E-002	9.00000E-005	2.73000E-003	2.51000E-003	0.00000E+000	8.26032E+000	8.26032E+000	2.67000E-003	0.00000E+000	8.32711E+000
Paving Equipment	4.15000E-003	4.28300E-002	5.06900E-002	8.00000E-005	2.14000E-003	1.97000E-003	0.00000E+000	7.15820E+000	7.15820E+000	2.32000E-003	0.00000E+000	7.21608E+000
Rollers	4.16000E-003	4.16200E-002	3.78700E-002	5.00000E-005	2.65000E-003	2.44000E-003	0.00000E+000	4.60970E+000	4.60970E+000	1.49000E-003	0.00000E+000	4.64698E+000
Rubber Tired Dozers	3.23800E-002	3.39970E-001	1.23950E-001	2.60000E-004	1.66500E-002	1.53200E-002	0.00000E+000	2.25166E+001	2.25166E+001	7.28000E-003	0.00000E+000	2.26986E+001
Scrapers	2.97900E-002	3.52560E-001	2.23760E-001	4.50000E-004	1.37500E-002	1.26500E-002	0.00000E+000	3.99256E+001	3.99256E+001	1.29100E-002	0.00000E+000	4.02484E+001
Tractors/Loaders/Backhoes	8.63100E-002	8.71510E-001	1.00579E+000	1.38000E-003	5.26800E-002	4.84700E-002	0.00000E+000	1.21114E+002	1.21114E+002	3.91700E-002	0.00000E+000	1.22093E+002
Welders	4.68200E-002	2.28580E-001	2.59560E-001	3.80000E-004	1.15800E-002	1.15800E-002	0.00000E+000	2.82331E+001	2.82331E+001	3.80000E-003	0.00000E+000	2.83280E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.35600E-002	2.33890E-001	2.73060E-001	4.50000E-004	1.46400E-002	1.46400E-002	0.00000E+000	3.82988E+001	3.82988E+001	2.70000E-003	0.00000E+000	3.83662E+001
Cranes	5.54700E-002	6.53550E-001	2.64420E-001	7.60000E-004	2.66400E-002	2.45100E-002	0.00000E+000	6.65293E+001	6.65293E+001	2.15200E-002	0.00000E+000	6.70672E+001
Excavators	7.35000E-003	7.23800E-002	9.80300E-002	1.50000E-004	3.51000E-003	3.23000E-003	0.00000E+000	1.36110E+001	1.36110E+001	4.40000E-003	0.00000E+000	1.37210E+001
Forklifts	5.97800E-002	5.43390E-001	5.26870E-001	6.90000E-004	3.90600E-002	3.59400E-002	0.00000E+000	6.04310E+001	6.04310E+001	1.95400E-002	0.00000E+000	6.09196E+001
Generator Sets	5.51100E-002	4.86170E-001	5.53460E-001	9.90000E-004	2.61900E-002	2.61900E-002	0.00000E+000	8.47810E+001	8.47810E+001	4.43000E-003	0.00000E+000	8.48919E+001
Graders	7.14000E-003	9.48800E-002	2.72200E-002	1.00000E-004	3.03000E-003	2.79000E-003	0.00000E+000	8.74596E+000	8.74596E+000	2.83000E-003	0.00000E+000	8.81667E+000
Pavers	5.25000E-003	5.62100E-002	5.79700E-002	9.00000E-005	2.73000E-003	2.51000E-003	0.00000E+000	8.26031E+000	8.26031E+000	2.67000E-003	0.00000E+000	8.32710E+000
Paving Equipment	4.15000E-003	4.28300E-002	5.06900E-002	8.00000E-005	2.14000E-003	1.97000E-003	0.00000E+000	7.15819E+000	7.15819E+000	2.32000E-003	0.00000E+000	7.21607E+000
Rollers	4.16000E-003	4.16200E-002	3.78700E-002	5.00000E-005	2.65000E-003	2.44000E-003	0.00000E+000	4.60970E+000	4.60970E+000	1.49000E-003	0.00000E+000	4.64697E+000
Rubber Tired Dozers	3.23800E-002	3.39970E-001	1.23950E-001	2.60000E-004	1.66500E-002	1.53200E-002	0.00000E+000	2.25166E+001	2.25166E+001	7.28000E-003	0.00000E+000	2.26986E+001
Scrapers	2.97900E-002	3.52560E-001	2.23760E-001	4.50000E-004	1.37500E-002	1.26500E-002	0.00000E+000	3.99256E+001	3.99256E+001	1.29100E-002	0.00000E+000	4.02484E+001
Tractors/Loaders/Balckhoes	8.63100E-002	8.71510E-001	1.00579E+000	1.38000E-003	5.26800E-002	4.84700E-002	0.00000E+000	1.21114E+002	1.21114E+002	3.91700E-002	0.00000E+000	1.22093E+002
Welders	4.68200E-002	2.28580E-001	2.59560E-001	3.80000E-004	1.15800E-002	1.15800E-002	0.00000E+000	2.82331E+001	2.82331E+001	3.80000E-003	0.00000E+000	2.83280E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30552E-006	1.30552E-006	0.00000E+000	0.00000E+000	1.04258E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20248E-006	1.20248E-006	0.00000E+000	0.00000E+000	1.19283E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.34700E-007	7.34700E-007	0.00000E+000	0.00000E+000	1.45761E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.31320E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17797E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14338E-006	1.14338E-006	0.00000E+000	0.00000E+000	1.13421E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21061E-006	1.21061E-006	0.00000E+000	0.00000E+000	1.20090E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39700E-006	1.39700E-006	0.00000E+000	0.00000E+000	1.38579E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15194E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.88235E-007	8.88235E-007	0.00000E+000	0.00000E+000	8.81110E-007
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25233E-006	1.25233E-006	0.00000E+000	0.00000E+000	1.24228E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23850E-006	1.23850E-006	0.00000E+000	0.00000E+000	1.22857E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.05902E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	1.13	0.28	1.13	0.28	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.23	0.06	0.23	0.06	0.00	0.00
Grading	Fugitive Dust	0.13	0.05	0.13	0.05	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.09	0.05	0.09	0.05	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.71	1.12	1.52	1.87	1.76	1.74	0.00	1.88	1.88	1.57	0.00	1.88
Natural Gas	6.27	6.27	6.27	6.37	6.30	6.30	0.00	6.27	6.27	6.25	6.33	6.27
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.14	0.38		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site	
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.02		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.02		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	7.00	
No	Install High Efficiency Lighting		
Yes	On-site Renewable		100.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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