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May 19, 2014 June 18, 2015

Mr. Jon Rilling
The Accretive Group of Companies
12275 El Camino Real, Suite 110
San Diego, CA 92130

Reference: Mountain Ridge Road Fire Station Alternative – Greenhouse Gas Analysis
(RECON Number 6153)

Dear Mr. Rilling:

This technical analysis identifies and documents potential greenhouse gas (GHG) impacts related to the Mountain Ridge Road Fire Station Alternative (Alternative) for the proposed Lilac Hills Ranch project (proposed project). Three figures are enclosed with this analysis: Figure 1 shows the regional location of the project site; Figure 2 shows the boundary of the project site plotted on an aerial photograph of the project vicinity; and Figure 3 shows the land use plan for the Alternative. The analysis of the proposed project is contained in the Climate Change Greenhouse Gas Technical Report, Lilac Hills Ranch, San Diego County, California (GHG Report; RECON 20142015).¹

1.0 Description of the Mountain Ridge Road Fire Station Alternative

The Mountain Ridge Road Fire Station Alternative would be located on the same 608-acre site as the proposed project, and would consist of the same mix of residential, commercial, and institutional uses, along with parks, open space, and other project amenities, including the Water Reclamation Facility and Recycling Facility. Specifically, the Alternative entails construction and operation of the same component parts as the proposed project, including single-family detached, single-family attached, mixed-use residential, and age-restricted single-family homes, totaling a maximum of 1,746 dwelling units; amenities to serve the senior citizen neighborhood, including a 200-bed ~~group residential~~ facility; commercial uses; a K-8 school; a 50-room country inn; civic facilities, including a fire station; public and private parks; an institutional facility; and private recreational facilities and other recreational amenities. Open space areas would retain some of the existing citrus and avocado groves, along with 104.1 acres of sensitive biological/wetland habitat. Additional biological open space may be provided off-site to mitigate impacts to upland habitat and contribute to a proposed regional preserve system.

In comparison to the proposed project, the Alternative would relocate the proposed fire station from Phase 3 to Phase 5 of the project site. As shown on Figure 3, this Alternative would provide the Deer Springs Fire Protection District (DSFPD) with a 2-acre site within Phase 5 for a future permanent fire station. The permanent station would consist of a new 4,500-square-foot building, consisting of 3,000 square feet of livable space with two, dual-stacked engine bays equal to 1,500-square feet. (This total square footage (i.e., 4,500) would represent an increase in the overall building square footage when compared to the proposed project.) The station would

¹The GHG ~~Report~~ report contains information regarding the existing conditions and, regulatory setting, and emissions estimation methodology that are applicable to the analysis of both the proposed project and the Alternative evaluated in this letter report.

include eight parking spaces for firefighters and two spaces for the public. The final design of the fire station will require a Site Plan and will need to be approved by the DSFPD.

To accommodate the location of the fire station within Phase 5, the Alternative would convert and improve Mountain Ridge Road from a 2-lane private road with restricted access to a County public road, classified as a Rural Residential Collector. Specifically, this Alternative would improve Mountain Ridge Road to allow for a 28-foot paved roadway within a 40-foot graded easement, with a reduced speed of 30 miles per hour (mph).² The Alternative also proposes to remove all access restriction (gates) on Mountain Ridge Road and along Lilac Hills Ranch Road, allowing public travel through the project site.

Like the proposed project, access under the Alternative would be provided by two permanent access points to West Lilac Road, which turns into Main Street within the project site. Additional access would be provided by a legal physical connection to West Lilac Road via Covey Lane, and emergency access would be provided via Street "B" via Rodriguez Road.

As discussed below, the Alternative would not alter the travel distance associated with the proposed project on a regional level, nor. However, the Alternative would it change increase the emissions associated with operations of buildings. However, the Alternative would result due to the additional 4,500 square feet of building square footage and the increase in a different set of daily trip generation. The Alternative would also increase construction-related assumptionsemissions due to the designationconstruction of additional building square footage and improvement of the additional improvements to Mountain Ridge Road as a County public road, in lieu of the proposed project's private road designation. This analysis assesses the potential greenhouse gas impacts due to construction and operation under the Alternative.

2.0 Significance Criteria and Related Methodologies

The County has approved "Guidelines for Determining Significance Report Format and Content Requirements: Climate Change" (County Guidelines), dated November 7, 2013, which are used as the basis for determining the significance of the proposed project's and this Alternative's GHG emissions. As stated in the County Guidelines, the County's Climate Action Plan (CAP) provides the overall framework for assessing significance and demonstrates a range of feasible reduction measures that can be implemented to achieve an overall reduction in GHG emissions that is supportive of the state-mandated reduction target embodied in Assembly Bill (AB) 32. Project type specific implementing thresholds are included in the County Guidelines in order to allow projects to clearly demonstrate compliance with the CAP and identify the significance of cumulative contributions to GHG emissions. As with the proposed project, the threshold used to assess GHG emissions from the Alternative is the Performance Threshold, which states that:

A proposed project would have a cumulatively considerable contribution to climate change impacts if it would result in a net increase of construction and operational. This analysis is based on: (i) the requirements of CEQA and the CEQA Guidelines; (ii) the 2006 Global Warming Solutions Act (AB 32), including the California Air Resources Board's (CARB) *Climate Change Scoping Plan: A Framework for Change* (Scoping Plan; CARB 2008), the 2011 Final Supplement to the *Scoping Plan* (CARB 2011), and the *First Update to the Climate Change Scoping Plan: Building on the Framework* (First Update; CARB 2014); (iii) the County of San Diego's General Plan, as well as the County's 2015 GHG Guidance: *Recommended Approach to Addressing*

²A standard Rural Residential Collector includes a 28-foot-wide paved roadway with a 48-foot-wide graded easement. While the Alternative would pursue a road exception request to improve Mountain Ridge Road with a reduced 40-foot graded easement, the analysis below assumes the worst-case scenario of a standard Rural Residential Collector with a 48-foot-wide graded easement.

Global Climate Change in CEQA Documents (2015 GHG Guidance; County of San Diego 2015); (iv) the Sacramento Metropolitan Air Quality Management District's (SMAQMD) CEQA Guide (SMAQMD 2014); (v) the 2008 Sustainable Communities and Climate Protection Act (SB 375), including the San Diego Association of Governments' (SANDAG) 2050 Regional Transportation Plan/Sustainable Communities Strategy (2050 RTP/SCS; SANDAG 2011); and (vi) Executive Orders S-3-05 and B-30-15.

2.1 CEQA Guidelines

A significant global climate change impact would occur if implementation of the Alternative would do the following:

1. Generate greenhouse gas emissions, either directly or indirectly, and if the project would incorporate mitigation that achieves less than a 16 percent total reduction compared to unmitigated emissions, that may have a significant impact on the environment.
2. In accordance with the County Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The significance criteria for global climate change are based on Appendix G of the CEQA Guidelines, ~~an~~. The first criterion requires evaluation of whether GHG emissions would significantly impact ~~analysis shall occur~~ the environment either directly or indirectly, while the second criterion requires evaluation of a project's potential to conflict with any applicable plans, policies or regulations adopted to reduce GHG emissions.

To evaluate the Alternative's significance relative to the two significance criteria identified above, several methodologies have been utilized. Methodology 1a discloses the increase in GHG emissions due to project implementation with respect to existing conditions. Methodologies 1b through 1d provide a quantitative analysis of the project's consistency with AB 32, and each of those three methodologies provides a separate and independent ground for the AB 32-related significance determination. Methodologies 2a through 2c provide a qualitative analysis of the project's compliance with applicable plans and policies for reduction of GHG emissions.

- 1 a. The first evaluation is based on the incremental increase in GHG emissions attributable to the Alternative as compared to GHG emissions resulting from on-site existing conditions.
- 1 b. The second evaluation is based on the County's 2015 GHG Guidance, which states that if the Alternative exceeds 900 metric tons of carbon dioxide equivalent (MTCO₂E) annually, the Alternative must demonstrate a minimum 16 percent reduction by 2020 over the "unmitigated" condition;
- 1 c. The third evaluation is based on SMAQMD's CEQA Guide, which states that if the Alternative exceeds 1,100 MTCO₂E, the Alternative must demonstrate a minimum 21.7 percent reduction by 2020 over the "no action taken" condition (hereinafter referred to as the "NAT" condition); and,
- 1 d. The fourth evaluation is based on the methods and requirements of CARB's 2008 Scoping Plan, which identified a 28.5 percent reduction by 2020 over a "business as usual" condition (hereinafter referred to as the "BAU" condition). (This approach also is consistent with the adopted 2009 CEQA Guidance of the San Joaquin Valley Air Pollution Control District.)

To determine impacts under the second criterion, i.e., conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases, the following methodologies were utilized:

- 2 a. The first evaluation is based on an analysis of the project's consistency with the County of San Diego's General Plan Goals and Policies intended to reduce GHG emissions;
- 2 b. The second evaluation is based on an analysis of a project's consistency with SB 375, including SANDAG's 2050 RTP/SCS; and
- 2 c. The third evaluation is based on whether a project's post-build-out GHG emissions trajectory would impede the attainment of the interim (2030) and horizon (2050) statewide GHG reduction goals identified in EOs B-30-15 and S-3-05.

The first evaluation under the first criterion is necessary as it discloses the extent to which the Alternative may increase GHG emissions as compared to the existing environmental baseline and setting, which is identified as a factor that the lead agency should consider whether project-related emissions are cumulatively considerable. "Projects that have cumulatively considerable (i.e., significant) impacts, according to the County's pursuant to CEQA Guidelines, shall include project design features and/or adopt mitigation to reduce or avoid impacts to below the cumulatively considerable level" (Section 15064.4(b)(1).

The comparison of the Alternative's reduction in GHG emissions in relation to the percentage reduction target identified by the County of San Diego 2013). As with the proposed project, the Alternative incorporates project design measures in order to meet the 16 percent performance threshold. These design measures are the same as those identified for the proposed project in via reference to CARB's August 2011 Final Supplement to the *Scoping Plan* (see Section 3.2.3 of the GHG Report.) is used as the second point of evaluation. As discussed, with respect to new economic data and the additional implementation of the Initial RPS and Pavley I, achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of approximately 16 percent. According to the County's 2015 GHG Guidance, the utilization of this percentage reduction target allows the analysis to consider whether the Alternative would impede attainment of AB 32's emissions reduction mandate that the state return to its 1990 emissions level by 2020, which remains the only legislatively mandated statewide mandate.

As the primary difference in the Alternative and the proposed project is construction along Mountain Ridge Road and the relocation of the fire station already proposed as part of the project, the primary difference in emissions is construction related and temporary in nature. Construction activities for the Alternative would cease at the end of construction and the alternative access route would have little difference on overall travel distances. Therefore the GHG emissions associated with the Alternative would have little effect on 2035 (County CAP) or 2050 (AB 32) GHG emissions, or with the mandates under AB 375. Therefore, the Alternative would have a similar impact as the proposed project on GHG emissions in 2035 and 2050.

The third evaluation under the first criterion compares the Alternative's reduction in GHG emissions in relation to the percentage reduction target identified by the SMAQMD via reference to CARB's August 2011 Final Supplement to the *Scoping Plan* (see Section 3.2.3 of the GHG Report). As discussed, with respect to the conservative consideration of only the new economic data alone (and not the additional regulatory advancements), achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of approximately 21.7 percent. Utilization of this percentage reduction target allows for further consideration of whether the Alternative would impede attainment of AB 32's emissions reduction mandate that the state return to its 1990 emissions level by 2020. As identified in SMAQMD's guidance, "a 21.7 percent reduction of GHG emissions is adequate mitigation and shows consistency with AB 32 and Scoping Plan GHG reduction goals" (SMAQMD 2014).

The fourth evaluation under the first criterion compares the Alternative's reduction in GHG emissions in relation to the percentage reduction target identified in CARB's 2008 *Scoping Plan*. As discussed, achieving the 1990 emissions level by 2020 would require a reduction in GHG emissions of approximately 28.5 percent (CARB 2008). Utilization of this percentage reduction target provides another mechanism by which to consider whether the Alternative would impede attainment of AB 32's emissions reduction mandate that the state return to its 1990 emissions level by 2020.

The evaluation of the Alternative's consistency with plans, policies, and regulations adopted to reduce GHG emissions includes consideration of the Alternative's potential to conflict with: (1) the County's General Plan policies intended to reduce GHG emissions; (2) SANDAG's 2050 RTP/SCS, which was adopted for the purpose of reducing GHG emissions at the regional level from passenger vehicles pursuant to SB 375; or, (3) the policy goals set forth in EOs B-30-15 and S-3-05.

3.0 Analysis Methodologies and Assumptions

The methodology for the analysis of this Alternative is mostly the same as that described for the proposed project in the GHG Report (RECON 2014/2015). However, a brief summary of the methods used and assumptions of specific relevance to this Alternative is provided below.

3.1 Existing Emissions

In accordance with CEQA Guidance Section 15064.4(b)(1), this section considers the "extent to which the project may increase or reduce [GHG] emissions as compared to the existing environmental setting."

As shown in Table 1, the existing land uses emissions are calculated at 563.8 MTCO₂E in 2008, and the Alternative's emissions are quantified to range from 33,398.6 to 33,927.9 MTCO₂E in 2020, depending on which calculation method is used, i.e., under County 2015 GHG Guidance, the SMAQMD CEQA Guide, and the 2008 Scoping Plan requirements. Therefore, the GHG emissions from the Alternative would be greater than the existing emissions, increasing emissions on the project site over and above existing conditions by 32,834.8 to 33,364.1 MTCO₂E.

TABLE 1
ANNUAL ESTIMATED GHG EMISSIONS FOR EXISTING USES
AND 2020 ALTERNATIVE WITH PROJECT DESIGN FEATURES
(MTCO₂E)

Source	Existing Emissions	County 2015 GHG Guidance		SMAQMD CEQA Guide		2008 Scoping Plan Method	
		2020 Project Emissions	Increase	2020 Project Emissions	Increase	2020 Project Emissions	Increase
Construction	-	651.0	651.0	379.1	379.1	404.1	404.1
Vehicles	392.5	22,315.5	21,923.0	22,315.5	21,923.0	22,315.5	21,923.0
Energy Use	95.3	5,455.7	5,360.4	5,448.9	5,353.6	5,455.7	5,360.4
Area	52.7	2,757.5	2,704.8	2,757.5	2,704.8	2,757.5	2,704.8
Water Use	11.5	1,767.4	1,755.9	1,516.9	1,505.4	1,767.4	1,755.9
Solid Waste	11.8	980.9	969.1	980.9	969.1	980.9	969.1
TOTAL	563.8	33,927.9	33,364.1	33,398.6	32,834.8	33,681.0	33,117.2

3.2 Construction

On-site construction emissions were estimated using CalEEMod Version 2011.1.1 (CAPCOA 2011). CalEEMod calculates construction emissions for land use development projects based on various project-specific inputs, including building type, acreage, soil hauling, construction phasing, equipment lists, and worker commutes and materials delivery. Thus, GHG emissions were modeled based on information provided in the Lilac Hills Ranch Specific Plan and the GHG Report.

Off-site roadway construction activities were modeled using the Road Construction Emissions Model, version 7.1.5.1, developed by the Sacramento Metropolitan Air Quality Management District (SMAQMD). Construction emissions were modeled using Alternative-specific construction information when available. Where the Alternative-specific information was not available, default assumptions provided in the model were used to estimate construction emissions; see Attachment 1.

As with construction of the proposed project, construction activities associated with the Alternative would be subject to several control measures per the requirements of the County of San Diego, San Diego Air Pollution Control District (SDAPCD) rules, and the California Air Resources Board (CARB) In-Use Off-Road Diesel Vehicle Regulation. Accordingly, all Further, the majority of construction equipment is modeled as Tier III emissions compliant.

For GHG modeling purposes, construction of the improvements to Mountain Ridge Road proposed by under the Alternative would occur in 2018 (during Phase 5) and require six 10 to 11 months to complete. The total length of and are considered in addition to project construction along Mountain Ridge Road would be activities assessed in the GHG Report. The Alternative includes the construction of a 4,500-square-foot fire station and the improvement of Mountain Ridge Road for approximately 0.6 mile and occur over. The total construction site would cover 8 acres, with 2 acres for the fire station and approximately 20 acres with a 6 acres of total disturbance on Mountain Ridge Road. The total daily disturbance of on Mountain Ridge Road is assumed to be 2.5 acres. Annual emissions from construction equipment were quantified and added to the total GHG emissions (construction and operational) of the proposed project prior to incorporation of reduction strategies and measures.

3.2.1 County 2015 GHG Guidance

According to the County's 2015 GHG Guidance, "construction emissions may be amortized over the expected (long-term) operational life of a project, which can conservatively be estimated at 20 years..." Based on the GHG emissions associated with the construction of improvements, i.e., 777.7 MTCO₂E, annual construction emissions from those improvements would equate to 83.9 MTCO₂E (61.0+22.9=83.9). The amortized emissions total for the construction emissions associated with the Alternative were added to the annual construction emissions associated with the proposed project as calculated in the GHG Report. Therefore, the total annual construction emissions under the Alternative would be 651.0 MTCO₂E annually, as summarized in Table 2. The complete construction emission calculations are contained in the Attachment 1.

TABLE 2
TOTAL AND ANNUAL CONSTRUCTION EMISSIONS FOR ALTERNATIVE
UNDER COUNTY 2015 GHG GUIDANCE

Construction Emissions	Total MTCO ₂ E	Annual MTCO ₂ E
Proposed Project	11,342.4	567.1
Alternative		
Fire Station	319.9	61.0
Mountain Ridge Road Improvements	457.8	22.9
TOTAL	12,120.1	651.0

3.2.2 SMAQMD CEQA Guide

According to the SMAQMD CEQA Guide, “the finite amount of a project’s construction related GHG emissions and the operational GHG emissions generated per year over the lifetime of the project should be disclosed separately” (SMAQMD 2014). Operational life of a building can be estimated to be 40 years for new residential and 25 years for conventional commercial (SMAQMD 2014). Therefore, under the SMAQMD CEQA Guide, construction emissions are amortized over a 25-year lifetime for non-residential and a 40-year lifetime for residential.

To determine the annual construction emissions, the total construction emissions were divided based on the proportion of the total project acreage to be developed as residential or non-residential, excluding detention basins and biological preservation/open space, but not parks. Based on the total acreage to be developed for these purposes, approximately 62 percent of the total construction emissions would be associated with residential uses and approximately 38 percent would be associated with non-residential uses. For analysis purposes, emissions associated with roadway improvements are included in the non-residential emissions. Thus, with the Alternative, the percentage of residential land uses is reduced to 58.2 percent and non-residential land uses increase to 41.8 percent of the total developed land uses.

Based on a 25-year lifetime, construction associated with the Alternative would generate 31.1 MTCO₂E annually (12.8 + 18.3=31.1). Combining the Alternative’s emissions for these improvements with the proposed project’s emissions would result in 379.1 MTCO₂E annually associated with the Alternative. Annual construction emissions calculated under the SMAQMD CEQA Guide are summarized in Table 3. Attachment 1 contains the complete construction emission calculations.

TABLE 3
TOTAL AND ANNUAL CONSTRUCTION EMISSIONS FOR ALTERNATIVE
UNDER SMAQMD CEQA GUIDE

Construction Emissions	Percentage of Land for Use	Total MTCO ₂ E	Annual MTCO ₂ E
Proposed Project Residential	59.7%	7,048.6	176.2
Proposed Project Non-Residential	36.4%	4,293.9	171.8
Alternative (Non-Residential)			
Fire Station		319.9	12.8
Mountain Ridge Road Improvements	3.9%	457.8	18.3
Total Non-Residential	40.3%	5,071.6	202.9
TOTAL	100%	12,120.2	379.1

3.2.3 2008 Scoping Plan

For purposes of this BAU analysis, construction emissions for the Alternative are amortized over a 30-year lifetime (SCAQMD 2008). Based on a 30-year lifetime, annual GHG emissions from the Alternative would total 26.0 MTCO₂E (10.7+15.3=26.0). Therefore, total annual construction emissions, combining on-site and off-site quantities, would be approximately 404.1 MTCO₂E annually, as summarized in Table 4. Attachment 1 contains the complete construction emission calculations.

TABLE 4
TOTAL AND ANNUAL CONSTRUCTION EMISSIONS FOR ALTERNATIVE
UNDER 2008 SCOPING PLAN METHOD

Construction Emissions	Total MTCO ₂ E	Annual MTCO ₂ E
Proposed Project	11,342.4	378.1
Alternative		
Fire Station	319.9	10.7
Mountain Ridge Road Improvements	457.8	15.3
TOTAL	12,120.2	404.1

3.3 Operation

Based on the Lilac Hills Ranch Mountain Ridge Road Fire Station Alternative Traffic Impact Analysis (Chen Ryan 2014), the Alternative would ~~not~~ result in additional operational emissions and greater trip generation as the improvements of Mountain Ridge Road Alternative would ~~not~~ change any proposed land uses, other than relocating/relocate the fire station from Phase 3 to Phase 5, and construct a separate 4,500-square-foot building. The GHG modeling is based on conservative vehicle miles traveled (VMT) estimates and. However, the minor differences in VMT associated with the 16 additional trips and redistribution of 2,410 average daily trips on Mountain Ridge Road from other project access roadways ~~does~~ do not affect the mass GHG emission estimates as all for project-related trips for any specific purpose, as the various land uses are assumed to travel the same distance under either scenario. Thus, for GHG analysis purposes, mobile GHG emissions from vehicular operation under either the proposed project or both the project and the Alternative are the same.

Impact Analysis

Based on the modeling, construction of the improvements to Mountain Ridge Road would emit 457.8 metric tons (MT) of carbon dioxide equivalents (CO₂E) that would not otherwise occur under the proposed project. Construction emissions associated with Mountain Ridge Road alone, under the Alternative, would equate to 15.26 MTCO₂E per year when amortized over a 30 year period. The annual construction emissions from Mountain Ridge Road combined with the annual construction emissions of the other project components result in 582.38 MTCO₂E per year of construction-related emissions for the Alternative, as shown below in Table 1.

All calculation methods and assumptions (i.e., under County 2015 GHG Guidance, the SMAQMD CEQA Guide, and the 2008 Scoping Plan requirements) for vehicles, energy, area sources, water, and solid waste are the same as described in the Lilac Hills Specific Plan GHG Report. Emissions estimates for the Alternative are shown in Tables 5 through 7.

3.3.1 County 2015 GHG Guidance

The County's 2015 GHG Guidance requires the calculation of "unmitigated" emissions and "mitigated" emissions based on the available information. Table 5 summarizes the "unmitigated" and "mitigated" emissions from the Alternative's operation for year 2020, which is conservatively used as the first year of operation. The year 2020 emissions are considered conservative for assessing project GHG impacts, as project emissions would be lower in future years as shown in the year 2030 and 2050 calculations. Emission estimates presented in Table 5 were completed based on the County's 2015 GHG Guidance.

TABLE 5
ALTERNATIVE'S OPERATIONAL GHG EMISSIONS
WITH AND WITHOUT PROJECT DESIGN FEATURES
UNDER COUNTY 2015 GHG GUIDANCE (MTCO₂E)

Source	"Unmitigated" Project	"Mitigated" Alternative 2020	Percent Reduction	"Mitigated" Alternative 2030	"Mitigated" Alternative 2050
Vehicles	26,863.7	22,315.5	16.9%	16,890.2	15,122.8
Energy	8,345.3	5,455.7	34.6%	4,969.4	4,969.4
Area	3,185.2	2,757.5	13.4%	2,757.5	2,757.5
Water	2,538.9	1,767.4	30.4%	1,466.9	1,466.9
Solid Waste	1,226.1	980.9	20.0%	919.6	919.6
TOTAL	42,159.1	33,276.9	20.8%	27,003.6	25,236.2

As shown in Table 1, the additional construction associated with the Alternative would increase total annual emissions over the proposed project by 15.26 MTCO₂E, due to the additional construction contemplated with widening and realigning Mountain Ridge Road under the Alternative. The Alternative would result in the same operation related emissions as the proposed project.

As shown in Table 2, the Alternative would surpass the County's Performance Threshold of 16 percent by achieving a 19.3 percent reduction over the unmitigated project.

As shown, the "unmitigated" Alternative would result in 42,159.1 MTCO₂E annually while the "mitigated" Alternative would result in 33,276.9 MTCO₂E annually. At build-out, in year 2030, GHG emissions would further reduce to 27,003.6 MTCO₂E annually and 25,236.2 MTCO₂E by 2050. These additional reductions are due to continued vehicle emission reduction due to existing laws (e.g. LEV III), RPS at 50 percent in 2030 (17 percent increase over 2020 RPS), and compliance with AB 341.

3.3.2 SMAQMD CEQA Guide

Table 6 summarizes the NAT and Alternative operation emissions for year 2020, which is conservatively used as the first year of project operation. As under the County 2015 GHG Guidance, the year 2020 emissions are considered conservative for assessing project GHG impacts, as project emissions would be lower in future years as shown in the year 2030 and 2050 calculations. Emission estimates presented in Table 6 were completed based on the SMAQMD's methodology.

TABLE 6
ALTERNATIVE'S OPERATIONAL GHG EMISSIONS
FOR NAT CONDITION AND PROJECT WITH DESIGN FEATURES
UNDER SMAQMD CEQA GUIDE (MTCO₂E)

Source	NAT 2020	Project 2020	Percent Reduction	Project 2030	Project 2050
Vehicles	31,678.6	22,315.5	29.6%	16,890.2	15,122.8
Energy	9,605.5	5,448.9	43.3%	4,683.0	4,683.0
Area	3,185.2	2,757.5	13.4%	2,757.5	2,757.5
Water	2,539.4	1,516.9	40.3%	1,197.8	1,197.8
Solid Waste	1,226.1	980.9	20.0%	920.1	920.1
TOTAL	48,234.7	33,019.5	31.5%	26,448.6	24,681.1

As shown in Table 3 shows, the increase in NAT emissions associated with would be 48,234.7 MTCO₂E annually while the Alternative as compared to the proposed would result in 33,019.5 MTCO₂E annually. At project build-out, in year 2030, GHG emissions, both unmitigated would further reduce to 26,448.6 MTCO₂E annually and mitigated, would increase with the Alternative, the present 24,681.1 MTCO₂E by 2050. These additional reductions are due to continued vehicle emission reduction from due to existing laws (e.g. LEV III), RPS at 50 percent in 2030 (17 percent increase over 2020 RPS), and compliance with AB 341.

3.3.3 2008 Scoping Plan

Table 7 summarizes the 2008 Scoping Plan BAU and project emissions for year 2020, which is conservatively used as the first year of project operation. The year 2020 emissions are considered conservative for assessing project GHG impacts, as project emissions would be lower in future years as shown in the year 2030 and 2050 calculations. Emission estimates presented in Table 7 were completed based on the unmitigated condition would remain methodology identified in the same 2008 Scoping Plan and CalEEMod user guide (CAPCOA 2011).

**TABLE 7
ALTERNATIVE'S OPERATIONAL GHG EMISSIONS
FOR BAU CONDITION AND PROJECT WITH PROJECT DESIGN FEATURES
UNDER 2008 SCOPING PLAN METHOD (MTCO₂E)**

Source	BAU 2020	Project 2020	Percent Reduction	Project 2030	Project 2050
Vehicles	31,146.5	22,315.5	28.4%	16,890.2	15,122.8
Energy	9,606.3	5,455.7	43.2%	4,786.5	4,786.5
Area	3,185.1	2,757.5	13.4%	2,757.5	2,757.5
Water	2,539.4	1,767.4	30.4%	1,422.1	1,422.1
Solid Waste	1,226.1	980.9	20.0%	914.6	914.6
TOTAL	47,703.3	33,276.9	30.2%	26,770.9	25,003.4

Because the Alternative would not decrease the level of percentage reductions

As shown in Table 7, the BAU project would result in 47,703.27 MTCO₂E annually while the proposed project would result in 33,239.8 MTCO₂E annually. At project build-out, in year 2030, GHG emissions would further reduce to 26,770.9 MTCO₂E annually and 25,033.4 MTCO₂E by 2050. These additional reductions are due to continued vehicle emission reduction due to existing laws (e.g. LEV III), RPS at 50 percent in 2030 (17 percent increase over 2020 RPS), and compliance with AB 341.

3.3.4 2030 Emissions

Table 8 provides a summary of the project's total 2030 emissions including construction and operational emissions for the "unmitigated" and the "mitigated" projects, as calculated per the County's 2015 GHG Guidance. The annual construction emissions would total 651 MTCO₂E, and annual operational emissions would total 27,654.6 MTCO₂E as shown in Table 8.

TABLE 8
ALTERNATIVE'S TOTAL ANNUAL ESTIMATED GHG EMISSIONS
WITH AND WITHOUT PROEJCT DESIGN FEATURES IN 2030 (MTCO₂E)

Source	"Unmitigated" Alternative Emissions (in MTCO ₂ E)	2030 "Mitigated" Alternative Emissions (in MTCO ₂ E)
Construction	651.0	651.0
Vehicles	26,863.7	16,890.2
Energy	8,345.3	4,969.4
Area	3,185.2	2,757.5
Water	2,538.9	1,466.9
Solid Waste	1,226.1	919.6
TOTAL	42,742.2	27,654.6

As shown in Table 8, with the exception of construction and area sources, all sources show a decline in future emissions. The reductions in energy and water are based on California achieving an RPS goal of 50 percent by 2030. The solid waste reduction is based on the effects of AB 341, which is reflected as an increase of 5 percent diversion between 2020 and 2030. The vehicle GHG emissions in 2030 show reductions primarily due to continued implementation of existing laws affecting fuel formulations and vehicle efficiencies as included in the EMFAC2014 model.

3.3.5 2050 Emissions

Table 9 provides a summary of the project's total 2050 emissions including construction and operational emissions for the "unmitigated" and the "mitigated" projects, as calculated per the County's 2015 GHG Guidance. The annual construction emissions would total 567.1 MTCO₂E, and annual operational emissions would total 25,803.3 MTCO₂E as shown in Table 9.

TABLE 9
ALTERNATIVE'S TOTAL ANNUAL ESTIMATED GHG EMISSIONS
WITH AND WITHOUT PROEJCT DESIGN FEATURES IN 2030 (MTCO₂E)

Source	"Unmitigated" Alternative Emissions (in MTCO ₂ E)	2050 "Mitigated" Alternative Emissions (in MTCO ₂ E)
Construction	651.0	651.0
Vehicles	26,863.7	15,122.8
Energy	8,345.3	4,969.4
Area	3,185.2	2,757.5
Water	2,538.9	1,466.9
Solid Waste	1,226.1	919.6
TOTAL	42,742.2	25,803.3

As shown in Tables 8 through 9, most source categories have constant, unchanging emissions between the 2030 and 2050 calculations, including the construction, solid waste, energy, area, water, and solid waste sources. This lack of change between 2030 and 2050 is due to the lack of information regarding future regulatory requirements and technology advancements for those emission sources. The continuing, overall decline in total emissions is due to declining vehicle emissions anticipated by the EMFAC2014 model resulting from continued implementation of existing laws affecting vehicle efficiencies and fleet characteristics.

4.0 Impact Analysis

4.1 GHG Emissions

Under the first criterion identified in Appendix G of the CEQA Guidelines, a significant global climate change impact would occur if implementation of the Alternative would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

The significance analysis provided in this letter report is multi-faceted and evaluates the significance of the Alternative's project's GHG emissions under the first criterion by reference to: (a) the existing environmental conditions on the project site; (b) the County's 2015 GHG Guidance, which requires at least a 16 percent reduction from the "unmitigated" condition; (c) SMAQMD CEQA Guide, which requires at least a 21.7 percent reduction from the NAT condition; and (d) the original 2008 *Scoping Plan*, which identifies a 28.5 percent reduction from the BAU condition.

4.1.1 Increase from Existing GHG Emissions

In accordance with CEQA Guidelines Sections 15064.4(b)(1) and 15125(a), this section identifies the numeric incremental increase in GHG emissions attributable to the Alternative, compared to GHG emissions resulting from on-site existing conditions. This report considers the "extent to which the project may increase or reduce [GHG] emissions as compared to the existing environmental setting."

The project site is presently occupied primarily by agricultural uses, with 22 single-family homes scattered throughout the 608 acres at very low density. Emissions due to the existing residential uses were quantified for year 2008 and 2020. As calculated in the GHG Report, the existing uses are generated to emit 563.7 MTCO₂E in the 2008 baseline year.

The Alternative would generate an additional 777.7 MTCO₂E of total GHG emissions, as compared to the proposed project, due to additional construction activities. Operational emissions under the Alternative would generate an additional 36.7 to 53.1 MTCO₂E as compared to the proposed project. Thus, total Alternative GHG emissions were calculated to range from 33,398.6 to 33,927.9 MTCO₂E in 2020, depending on which calculation method is used, i.e., under County 2015 GHG Guidance, the SMAQMD CEQA Guide, and the 2008 Scoping Plan requirements (see Section 5.1 Calculation Methodology of the GHG Report, ~~the Alternative would not result in any~~).

As with the proposed project, while the Alternative would result in an obvious change to the existing GHG emissions from the existing condition, because climate change is occurring on a global scale, it is not meaningfully possible to quantify the scientific effect of new GHG emissions caused by a single project or whether a project's net increase in GHG emissions, when coupled with other activities in the region, is cumulatively considerable.

As discussed further in the GHG Report, this numeric increase of GHG emissions, alone, is not a sufficiently informative or reliable indicator of the significance of the Alternative's GHG emissions. Therefore, as discussed, this analysis also considers other methods for analyzing the significance of the Alternative's GHG emissions.

4.1.2 County 2015 GHG Guidance

In accordance with CEQA Guidelines Section 15064.4(b)(2)-(3), this section analyzes whether the Alternative's GHG emissions are significant under the County's 2015 GHG Guidance, which requires the "mitigated" condition achieve at least a 16 percent reduction in GHG emissions from the "unmitigated" condition for impacts as compared to the proposed project and the Alternative's impacts ~~would~~ be less than significant.

As shown in Table 10, the "unmitigated" Alternative ~~without its project design features~~ would emit approximately 42,810.1 MTCO₂E annually, whereas the "mitigated" Alternative would emit

approximately 33,927.9 MTCO₂E annually. Detailed calculations are included in Attachment 1. This amounts to a 20.7 percent reduction, which exceeds the County's 16 percent reduction target. Therefore, impacts would be less than significant.

TABLE 10
TOTAL ANNUAL CONSTRUCTION AND OPERATIONAL
"UNMITIGATED" AND "MITIGATED" ALTERNATIVE GHG EMISSIONS
- COUNTY 2015 GHG GUIDANCE

Source	"Unmitigated" Alternative	"Mitigated" Alternative 2020	Percent Reduction	"Mitigated" Alternative 2030	"Mitigated" Alternative 2050
Operational Emissions	42,159.1	33,276.9	21.1%	27,003.6	25,236.2
Construction Emission	651.0	651.0	0.0%	651.0	651.0
Total Emissions	42,810.1	33,927.9	20.7%	27,654.6	25,803.3

The design features incorporated into the Alternative, for the "mitigated" condition are the same as those described in the GHG Report for the proposed project.

4.1.3 SMAQMD CEQA Guide

In accordance with CEQA Guidelines section 15064.4(b)(2)-(3), this section analyzes whether the Alternative's GHG emissions are significant under the SMAQMD's CEQA Guide, Chapter 6. The SMAQMD's CEQA Guide identifies 1,100 MTCO₂E as a threshold for construction and operational emissions, i.e., annual construction and operational GHG emissions below 1,100 MTCO₂E would be considered less than significant. Alternately, where operational emissions would exceed 1,100 MTCO₂E, the Alternative would be required to achieve a 21.7 percent or greater reduction in GHG emissions from a "NAT" condition for impacts to be less than significant.

As previously discussed, the SMAQMD considers construction and operational emissions separately. According to the SMAQMD CEQA Guide, annual construction or operational GHG emissions below 1,100 MTCO₂E are considered less than significant. Based on the annual construction emissions estimates, construction emissions would exceed 1,100 MTCO₂E, therefore they have been amortized over the life of the project, which is equivalent to 379.1 MTCO₂E annually.

Operational emissions under the Alternative would be the same as those under the proposed project. As shown in Table 11, the Alternative's operational emissions would exceed 1,100 MTCO₂E. Detailed calculations are included in Attachment 1. Therefore, the Alternative would be required to achieve SMAQMD's 21.7 percent reduction in GHG emissions over CARB's "NAT" condition to demonstrate consistency with AB 32. As shown in Table 10, the Alternative would emit approximately 33,019.5 MTCO₂E per year, whereas the NAT condition would emit approximately 48,234.7 MTCO₂E per year. This amounts to a 31.3 percent reduction, which exceeds SMAQMD's 21.7 percent reduction target. Therefore, the Alternative's GHG emissions would be less than significant.

TABLE 11
TOTAL ANNUAL NAT CONDITION AND ALTERNATIVE GHG EMISSIONS
- SMAQMD CEQA GUIDE (MTCO₂E)

Operational Emissions	NAT 2020	Alternative 2020	Percent Reduction	Alternative 2030	Alternative 2050
Operational Emissions	48,234.7	33,019.5	31.5%	26,448.6	24,681.1
Construction Emission	379.1	379.1	0.0%	379.1	379.1
Total Emissions	48,613.8	33,398.6	31.3%	26,827.7	25,041.9

Again, the design features incorporated into the Alternative are the same as those described in the GHG Report for the proposed project.

4.1.4 2008 Scoping Plan Method

In accordance with CEQA Guidelines Section 15064.4(b)(2)-(3), this section analyzes whether the Alternative's GHG emissions are consistent with the level of GHG reductions identified in the original 2008 Scoping Plan as necessary to achieve the reduction mandate of AB 32, which references at least a 28.5 percent reduction in GHG emissions from the BAU condition for impacts to be less than significant (CARB 2008).

As shown in Table 12, the BAU condition would emit a total of approximately 48,107.4 MTCO₂E annually, whereas the Alternative with its project design features would emit a total of approximately 33,681.0 MTCO₂E annually. Detailed calculations are included in Attachment 1. This amounts to a 30.0 percent reduction, which exceeds the 28.5 percent reduction target. Therefore, the Alternative's GHG emissions would be consistent with the Scoping Plan reduction goals and impacts would be less than significant.

TABLE 12
TOTAL ANNUAL CONSTRUCTION AND OPERATIONAL
BAU CONDITION AND ALTERNATIVE GHG EMISSIONS
– 2008 SCOPING PLAN METHOD

<u>Source</u>	<u>BAU 2020</u>	<u>Alternative 2020</u>	<u>Percent Reduction</u>	<u>Alternative 2030</u>	<u>Alternative 2050</u>
<u>Operational Emissions</u>	<u>47,703.3</u>	<u>33,276.9</u>	<u>30.2%</u>	<u>26,770.9</u>	<u>25,003.4</u>
<u>Construction Emission</u>	<u>404.1</u>	<u>404.1</u>	<u>0.0%</u>	<u>404.1</u>	<u>404.1</u>
<u>Total Emissions</u>	<u>48,107.4</u>	<u>33,681.0</u>	<u>30.0%</u>	<u>27,175.0</u>	<u>25,407.5</u>

Again, the design features incorporated into the Alternative are the same as those described in the GHG Report for the proposed project.

4.2 Consistency with Plans

Under the second significance criterion, a significant global climate change impact would occur if implementation of the Alternative would conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The significance analysis provided in this report evaluates the significance of the Alternative's GHG emissions under the second criterion by reference to: (a) the County's General Plan policies related to the reduction of GHG emissions; (b) SB 375 and the 2050 RTP/SCS; and (c) the statewide 2030 and 2050 reduction goals identified by EOs B-30-15 and S-3-05.

4.2.1 General Plan Goals and Policies

Impacts associated with the Alternative's consistency with the County's General Plan goals and policies relating to GHG emission reductions would be the same as those associated with the proposed project. Please see Section 6.2.1 of the GHG Report for further explanation as to the conclusion that the proposed project, and by extension this Alternative, would not conflict with the applicable, GHG-related portions of the County's General Plan.

4.2.2 SB 375 and SANDAG's 2050 RTP/SCS

In accordance with CEQA Guidelines Section 15064.4(b)(3), this section analyzes the Alternative's consistency with SB 375, including SANDAG's 2050 RTP/SCS.

As discussed above in Section 3.2, for GHG analysis purposes, mobile-GHG emissions from vehicular operation under either the proposed project or the Alternative are similar. Thus, impacts

associated with the Alternative's consistency with SB 375 and SANDAG's 2050 RTP/SCS would be the same as those associated with the proposed project. Please see Section 6.2.2 of the GHG Report for further explanation as to the conclusion that the proposed project, and by extension this Alternative, would not conflict with SB 375 or the 2050 RTP/SCS.

4.2.3 Executive Orders B-30-15 and S-3-05

In accordance with CEQA Guidelines Section 15064.4(b)(3), this section evaluates whether the Alternative's post-build-out GHG emissions trajectory would impede the attainment of the 2030 and 2050 GHG reduction goal identified in EOs B-30-15 and S-3-05.

EO S-3-05's goal to reduce statewide GHG emissions to 1990 levels by 2020 was codified by the Legislature's adoption of AB 32. As analyzed above (see Methodologies 1b through 1d), the project is consistent with AB 32. Therefore, the project does not conflict with that component of this EO.

EO S-3-05 also established a statewide goal to reduce GHG emissions to 80 percent below 1990 levels by 2050. This goal, however, was not codified by the Legislature. Similarly, EO B-30-15's goal to reduce statewide GHG emissions to 40 percent below 1990 levels by 2030 is not codified by the Legislature.

Because the 2030 and 2050 goals are an expression of executive policy (and not adopted legislative or regulatory action), there is an ongoing debate regarding their relevance to and force-and-effect under CEQA. Some environmental organizations and community groups contend that individual projects must achieve the reduction goals identified in the two EOs. However, others note that the EOs establish statewide reduction goals that cannot be achieved in a vacuum by cities and counties and individual projects within the jurisdiction of those agencies; rather, achievement of the reduction goals will depend on a coordinated effort amongst federal, state, regional and local agencies to secure emission reductions from existing and new emission sources. Importantly, the ongoing debate regarding the application of the EOs to CEQA is currently pending before the California Supreme Court; which is considering whether EIRs must to assess consistency with EOs in order to comply with CEQA.

In light of the legal uncertainty associated with the application of the EOs to CEQA, this EIR considers whether the project has the potential to conflict with the statewide GHG reduction goals articulated in the EOs. The subsequent analysis does so, but at the same time recognizes that:

- (1) The EOs establish statewide reduction goals, not project-level reduction goals;
- (2) No agency with subject matter expertise has translated these statewide goals into project-level goals;
- (3) Additional regulatory action from CARB, the state agency with expertise in the subject area, and other public agencies (primarily at the state level) will be required to facilitate achievement of the reduction goals due to the number of emission sources that are not under the direct control of local agencies (counties and cities) or project applicants;
- (4) Forecasting pursuant to CEQA Guidelines section 15144 is required in order to estimate project-related emissions 15 and 35 years from now; and,
- (5) CEQA does not demand perfection from lead agencies but good faith efforts, which is a particularly appropriate standard in this arena due to the ever-changing regulatory and scientific framework pertaining to global climate change and GHGs.

In an effort to assess the project's potential to conflict with the 2030 and 2050 statewide reduction goals of the two EOs, reference is made in this analysis to the Association of Environmental Professionals' (AEP) draft whitepaper, titled *Beyond 2020: The Challenge of Greenhouse Gas*

Reduction Planning by Local Governments in California. In its draft whitepaper, the AEP concluded that utilizing the EO's 2050 goal as a "*de facto*" significance threshold is "impractical" for cities and counties absent the California Legislature's adoption of a post-2020 GHG reduction target, as well as CARB's enactment of a plan of action (akin to the *Scoping Plan*) to achieve that target. This conclusion was rendered, in part, based on AEP's finding that "local jurisdictions cannot on their own develop feasible plans to deliver jurisdiction-level emission reduction all the way to the 2050 goal because the effort to change the economic activity and technology in use will require the action of the federal and State governments, as well as the financial ability (through market means or government funding) to implement the necessary changes."

Because of the limitations on local action identified in the draft white paper, the AEP recommended the establishment of a "substantial progress" significance criterion for purposes of CEQA, whereby the inquiry focuses on whether a project would impede substantial progress toward long-term GHG targets adopted by the Legislature. Per the AEP, a significance determination rendered pursuant to CEQA for long-term GHG targets "should be based on consistency with 'substantial progress' along a post-2020 trajectory, but should not be based on meeting the 2050 target." CEQA Guidelines section 15064.4(a)(2) affirms the discretion of lead agencies to utilize qualitative analysis when assessing the significance of a project's GHG emissions. Therefore, in lieu of delineating a precise quantitative metric for determining whether a project would impede substantial progress, the AEP recommended that the inquiry focus on "whether local action and project mitigation results in reasonable local fair-share GHG reductions over time, showing substantial progress toward the long-term State reduction [goals]."

With that framework in place, studies have shown that, in order to meet the 2050 target, aggressive technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. In its *Scoping Plan*, CARB acknowledged that the "measures needed to meet the 2050 target are too far in the future to define in detail."³ In the *First Update*, CARB generally described the type of activities required to achieve the 2050 goal: "energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately."

Relatedly, CARB's *First Update* "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by CARB would serve to reduce the project's post-2020 emissions level to the extent applicable by law:

- **Energy Sector:** Continued improvements in California's appliance and building energy efficiency programs and initiatives, such as the state's zero net energy building goals, would serve to reduce the project's emissions level. More specifically, the CEC currently anticipates adopting the 2016 Title 24 standards in 2015, and assigning those standards with an effective date of January 1, 2017. Further, both the CEC and CPUC remain committed to their goal that all new residential construction in California achieve zero net energy standards by 2020.

Given the phasing projections for the project, it is likely that a subsequent, more rigorous iteration of the Title 24 standards will apply to the project at the time of building permit issuance. For example, the project's residential units likely will be subject to — at a minimum — the 2016 Title 24 standards. Additionally, it is estimated that approximately 60 to 70 percent of the project's residential units will be constructed *after* 2020, indicating those units likely will achieve zero net energy standards to the extent required by law. The

³CARB, *Scoping Plan*, p. 117, December 2008.

GHG emission and energy savings associated with those standards have not been quantified at this time because the savings are unknown. Nevertheless, the assumption that all of the project's residential units will be constructed to achieve a 30 percent increase in efficiency over the 2008 Title 24 standards is conservative and serves to over-estimate GHG emissions in future years.

In addition to continued improvements in the state of California's building code, additions to California's renewable resource portfolio would reduce the project's emissions. For purposes of the post-2020 analysis presented below, the emission reduction benefits of achieving a 50 percent RPS by 2030 has been quantified as a 17 percent increase over RPS in 2020.

Governor Brown's 2015 inaugural address identified the achievement of a 50 percent RPS by 2030 as one of three cornerstone goals for his continuing climate policy objectives. Relatedly, CARB identified the expansion of California's renewable resources as an important component of the GHG reduction program outlined in its *First Update*, citing third-party studies concluding that the maximum penetration of renewable energy sources in California could be as high as 74 to 80 percent by 2050 (CARB 2014). After Governor Brown's address, in February 2015, California Senators DeLeon and Leno introduced SB 350, which seeks to codify the goal identified by Governor Brown through a number of amendments to the Health and Safety Code referred to as the Clean Energy and Pollution Reduction Act of 2015. In summary, assuming achievement of the 50 percent RPS in 2030 pursuant to CEQA's forecasting provision is appropriate in light of Governor Brown's inclusion of its achievement within his climate policy; CARB's desire to expand renewable resources pursuant its *First Update*; the California Legislature's pending consideration of legislation that would codify the 50 percent RPS if adopted; and, the availability of studies demonstrating that achievement of the 50 percent RPS is economically and environmentally advantageous, as well as technically feasible.

- **Transportation Sector:** Anticipated deployment of improved vehicle efficiency, zero emission technologies, lower carbon fuels, and improvement of existing transportation systems all will serve to reduce the project's emissions level. In addition, it is expected that these types of advancements will occur through coordinated federal (U.S. EPA and NHTSA) and state (CARB) regulatory action, as well as through roadway and transit improvements undertaken at the state, regional and local levels. Relatedly, California's Executive Branch has established a goal to cut the petroleum use in cars and trucks by half by 2030.

For purposes of the post-2020 analysis below, the new EMFAC2014 model developed by CARB has been used to quantify project-related mobile source emissions in 2030 and 2050. That model cannot anticipate future regulatory standards that are needed to de-carbonize California's transportation system and vehicle fleet, but represents the best available information at this time.

- **Water Sector:** The project's emissions level will be reduced as a result of further desired enhancements to water conservation technologies. The GHG emission savings associated with those conservation technologies have not been quantified at this time because the savings are unknown. However, for purposes of the post-2020 analysis, the effects of the RPS would affect the GHG emissions associated with the electricity used in water conveyance. Therefore, as discussed in connection with the "Energy Sector" above, the project's post-2020 emissions estimates assume an additional 17 percent reduction based on an increased RPS of 50 percent by 2030.
- **Waste Management Sector:** Plans to further improve recycling, reuse and reduction of solid waste will beneficially reduce the project's emissions level. For purposes of the post-2020 analysis below, the emission reduction benefits of California's policy goal that not

less than 75 percent of solid waste generated be source reduced, recycled or composted by the year 2020 — as expressed in Public Resources Code section 41780.01(a) — have been quantified.

A recent study shows that California's existing and proposed regulatory framework will allow the state to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 60 percent below 1990 levels by 2050. Even though this study did not provide an exact regulatory and technological roadmap to achieve the 2050 goal, it demonstrated that various combinations of policies could allow the statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the study could allow the state to meet the 2050 goal. Another recent report similarly concluded that California could achieve a 38 percent reduction in statewide GHG emissions from the 1990 levels by 2030 if the identified reduction strategies were subject to early deployment.

As shown above, the state's Executive Branch has expressed goals to secure further reductions in the statewide GHG emissions in 2030 and 2050. However, the course that will be charted to achieve the 2030 and 2050 statewide reduction goals is still being determined by the California Legislature and relevant regulatory agencies, most particularly CARB. Further, due to the technological shifts anticipated and the unknown parameters of the regulatory framework in 2030 and 2050, available GHG models and the corresponding technical analyses are subject to limitations for purposes of quantitatively estimating the project's emissions in 2030 and 2050.

Nonetheless, for purposes of this analysis, the project's GHG emissions in 2030 and 2050 were estimated in order to identify the emissions trend for the project in 2020, 2030 and 2050. Based on that modeling, as summarized below, the project's GHG emissions will steadily decrease with time as the state's existing and planned regulatory objectives are implemented and achieved:

- County's 2015 GHG Guidance (Methodology 1b Calculation): Estimated project emissions in 2020 are 33,927.9 MTCO₂E; in 2030, those emissions would decrease to 27,654.6 MTCO₂E (35.4 percent reduction), and, in 2050, those emission would decrease further to 25,803.3 (39.7 percent reduction).
- SMAQMD's CEQA Guide (Methodology 1c Calculation): Estimated project emissions in 2020 are 33,398.6 MTCO₂E; in 2030, those emissions would decrease to 26,827.7 MTCO₂E (44.8 percent reduction), and, in 2050, those emission would decrease further to 25,041.9 (48.4 percent reduction).
- CARB's 2008 Scoping Plan (Methodology 1d Calculation): Estimated project emissions in 2020 are 33,681.0 MTCO₂E; in 2030, those emissions would decrease to 27,175.0 MTCO₂E (43.5 percent reduction), and, in 2050, those emission would decrease further to 25,407.5 (47.2 percent reduction).

In accordance with CEQA Guidelines section 15144, which recognizes that preparing an EIR necessarily involves some degree of forecasting, the emission reductions identified for the project in 2030 and 2050 are a result of: (i) application of CARB's EMFAC2014 model; (ii) achievement of a 50 percent RPS by 2030; and, (iii) achievement of the 75 percent solid waste diversion goal by 2030, ten years later than the 2020 target year identified by AB 341/Public Resources Code section 41780.01(a). Conservatively, no other regulatory or technological advancements (e.g., zero net energy buildings) were assumed.

Arguably, whether the project would conflict with or impede substantial progress towards the statewide reduction goals established by EO B-30-15 for 2030 and by EO S-3-05 for 2050 cannot be reasonably determined at this time because no statutes or regulations have been adopted to translate these goals into comparable, scientifically-based emission reduction targets. In other words, rendering a significance determination relative to these two EOs would be speculative because they establish goals 15 and 35 years into the future; no agency with subject matter

expertise has adopted regulations to achieve these statewide goals at the project-level level; and, available models cannot presently quantify all project-related emissions in those future years.

Nonetheless, because of the ongoing controversy regarding the application of these two EOs in the context of CEQA and the strong interest in California's post-2020 climate policy, this analysis renders a determination as to whether the project would conflict with or impede substantial progress towards the statewide reduction goals established by EO B-30-15 for 2030 and by EO S-3-05 for 2050. As illustrated above, the project exceeds the percentage reduction targets identified under three separate methodologies for achievement of AB 32's 2020 reduction mandate (see Methodologies 1b through 1d), evidencing that the project does more than its "fair share" for purposes of 2020 and is on the right track for purposes of post-2020 emission reductions. Further, as shown in 9 through 11, the project's 2020 emissions totals represent the maximum emissions inventory for the project; project emissions would continue to decline from 2030 through at least 2050 based on currently available models and regulatory forecasting. Given the reasonably anticipated and demonstrated decline in project emissions once fully constructed and operational, the project is in line with the GHG reductions needed to achieve the EOs' interim (2030) and horizon-year (2050) goals. Said differently, and consistent with the AEP's recommended criterion, the project would not impede substantial progress toward long-term GHG goals. As such, although there is some uncertainty as discussed above, the project's impacts with respect to EO B-30-15 and EO S-3-05 are expected to be less than significant.

5.0 Summary

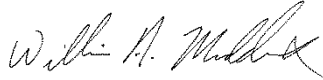
This technical analysis identifies and documents potential GHG impacts related to the Mountain Ridge Road Fire Station Alternative as compared to those impacts identified in the GHG Report for the Lilac Hills Ranch project. The Alternative would result in an additional 457.8121 MTCO₂E of construction- and operation related emissions. This would amortize as compared to 15.26 MTCO₂E per year over a 30-year period, for a total of 582.38 MTCO₂E per year when combined with the annual construction emissions from the other project components. Like the the proposed project, under the County 2015 GHG Guidance, 67.7 MTCO₂E under the SMAQMD methodology, and 63.1 MTCO₂E under the Alternative would achieve a 19.32008 Scoping Plan Method. When added to the proposed project emissions as report in the GHG Report, total Alternative GHG emissions were calculated to range from 33,398.6 to 33,927.9 MTCO₂E in 2020, depending on which calculation method is used, i.e., under County 2015 GHG Guidance, the SMAQMD CEQA Guide, and the 2008 Scoping Plan requirements (see Section 5.1 Calculation Methodology of the GHG Report).

As with the proposed project, under the County methodology, project design features would reduce the Alternative's "mitigated" emissions by 20.7 percent from the "unmitigated" emissions, which exceeds the County's 16 percent reduction in GHG emissions from the unmitigated target established for the year 2020. Under the SMAQMD methodology, the same project design features would reduce the Alternative's emissions by 31.5 percent over a NAT condition, which is greater than the same SMAQMD's 21.7 percent reduction identified target. Similarly, under a methodology based on the 2008 Scoping Plan, the same project design features would achieve a 30.0 percent reduction in GHG emissions as compared to a BAU condition, which is greater than the Scoping Plan's 28.5 percent reduction target. The project, by demonstrating compliance with the County, SMAQMD, and 2008 Scoping Plan percentage reduction targets, also demonstrates consistency with AB 32. Additionally, like the proposed project, the Alternative would not conflict with any applicable plan, policy or regulation adopted for the proposed project purpose of reducing GHG emissions. Therefore, like the project, the Alternative impacts associated with the Alternative's GHG emissions would be less than significant.

Mr. Jon Rilling
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~~May 19, 2014~~ June 18, 2015

Please contact me if you have any questions or comments (619-308-9333 x124 or wmaddux@reconenvironmental.com).

Sincerely,



William Maddux
Senior Air Quality and Noise Specialist

WAM:sh

Attachment

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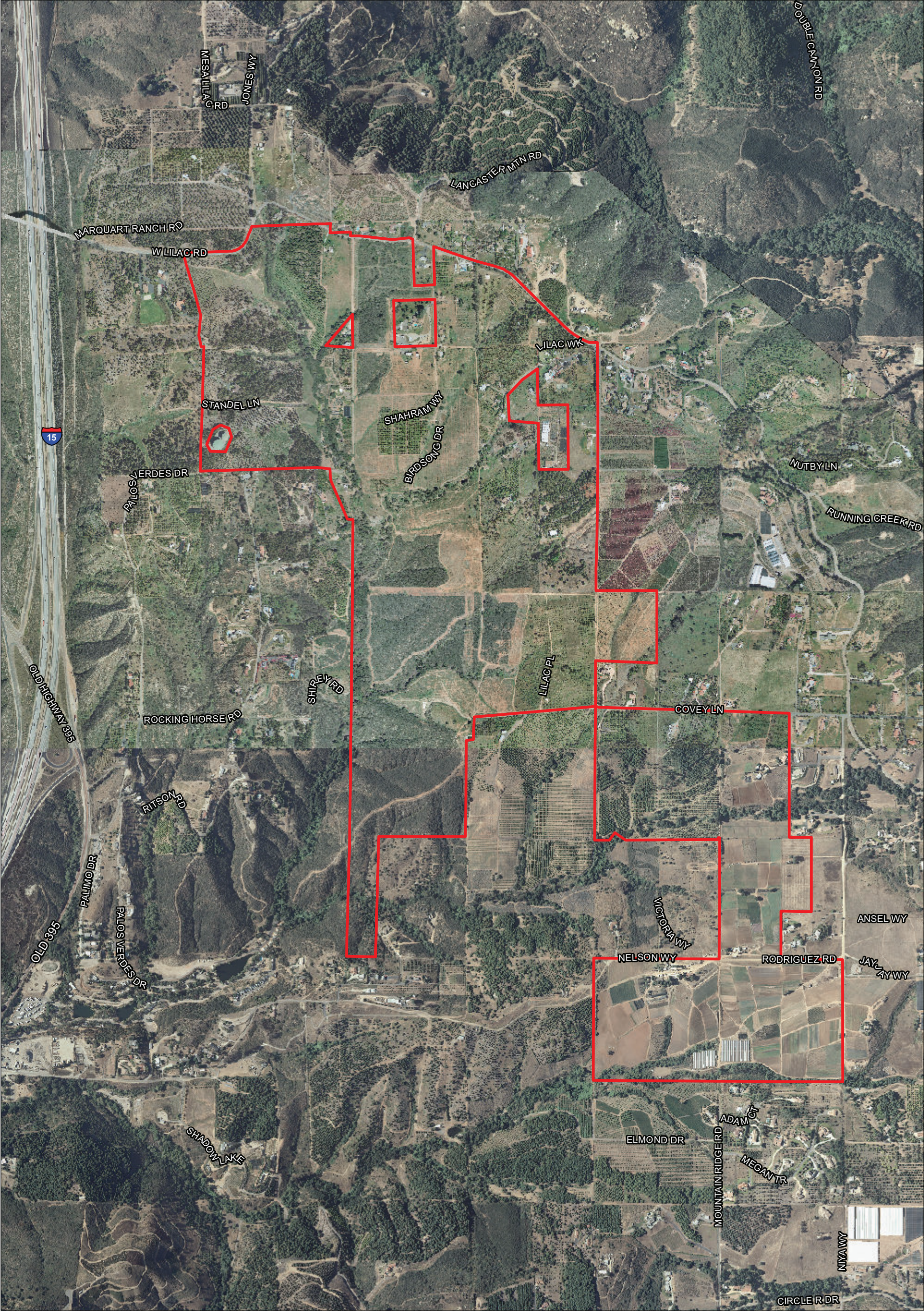
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 Project Location

FIGURE 1
Regional Location



 Project Boundary

FIGURE 2
Project Location on an Aerial Photograph

Attachment 1

Road Construction Emissions Model GHG Calculations

SMAQMD Methodology

Source	SMAQMD			SMAQMD		SMAQMD	
	NAT 2020	Project 2020	% Reduction	Project 2030	% Reduction	Project 2050	% Reduction
Energy - natural gas	2.9	2.5	11.6%	2.5	11.6%	2.5	11.6%
Energy - electricity	14.4	9.2	36.4%	7.3	49.7%	7.3	49.7%
Energy subtotal	17.3	11.7	32.3%	9.8	43.4%	9.8	43.4%
Vehicles	21.5	16.1	25.2%	12.1	43.7%	10.8	49.7%
Area	0.0	0.0	0.0%	0.0	0.0%	0.0	0.0%
Water	1.7	1.0	41.2%	1.0	41.2%	1.0	41.2%
Solid Waste	10.0	8.0	20.0%	8.0	20.0%	8.0	20.0%
Sub-Total	50.4	36.7	27.1%	30.8	38.8%	29.5	41.4%
Construction amortized over 25 years non-res, and 40 years res	12.8	12.8	0.0%	12.8	0.0%	12.8	0.0%
TOTAL GROSS EMISSIONS	50.4	36.7	27.1%	30.8	38.8%	29.5	41.4%
Emissions from Existing Uses (in Year 2020)	0.0	0.0	0	0.0	0	0.0	0

NAT Includes:

2005 Title 24
2006 SDG&E CO2 intensity
Historic Non-Pavely and Non-LCFS

Mitigated Includes:

Pavley I
LCFS
Increased Density 2.9 DU/Acre
Increase Walkability/On-site pedestrian network
Increased Diversity (Master Planned Community in rural setting)
RPS additional percentage reduction - 27.4%
Construction beyond Title 24 2008 - 30%
Lighting Efficiency 15%
Energy Star in residential and hotel fans
No fireplaces in congregate care, all others Natural Gas
Recycling reduction 20%
Water reduction 20% - Indoor and Outdoor
22% SPV On-site
LEV III - 2.4%
Tire Pressure Program - 0.6%

Regulatory Includes:

Pavley I
LCFS
RPS additional percentage reduction - 27.4%

2030/2050:

RPS additional percentage reduction - 44.4% over 2006
EMFAC 2014 for 2030 and 2050 Vehicle Emissions
Waste Diversion +5% over 2020

Combined Alt and Project

Source	NAT 2020		% Reduction	AQMD Project 2		% Reduction	% Reduction
Energy - natural gas	3,681.5	2,595.3	29.5%	2,595.3	29.5%	2,595.3	29.5%
Energy - electricity	5,924.0	2,853.6	51.8%	2,087.8	64.8%	2,087.8	64.8%
Energy subtotal	9,605.5	5,448.9	43.3%	4,683.0	51.2%	4,683.0	51.2%
Vehicles	31,678.6	22,315.5	29.6%	16,890.2	46.7%	15,122.8	52.3%
Area	3,185.2	2,757.5	13.4%	2,757.5	13.4%	2,757.5	13.4%
Water	2,539.4	1,516.9	40.3%	1,197.8	52.8%	1,197.8	52.8%
Solid Waste	1,226.1	980.9	20.0%	920.1	25.0%	920.1	25.0%
Sub-Total	48,234.7	33,019.5	31.5%	26,448.6	45.2%	24,681.1	48.8%
Construction amortized over 25 years non-res, and 40 years res	379.1	379.1	0.0%	379.1	0.0%	360.8	0.05
TOTAL GROSS EMISSIONS	48,613.8	33,398.6	31.3%	26,827.7	44.8%	25,041.9	48.5%
Emissions from Existing Uses (in Year 2020)	0.0	0.0	0	0.0	0	0.0	
TOTAL NET EMISSIONS	48,613.8	33,398.6	31.3%	26,827.7	44.8%	0.0	100.0%
Trees (sequestration)						0.0	
With 35,000 Misc Trees		33,398.6	31.3%	26,827.7	44.8%	0.0	

NAT Includes:

2005 Title 24

2006 SDG&E CO2 intensity
Historic Non-Pavely and Non-LCFS

Mitigated Includes:

Pavley I
LCFS
Increased Density 2.9 DU/Acre
Increase Walkability/On-site pedestrian network
Increased Diversity (Master Planned Community in rural setting)
RPS additional percentage reduction - 27.4%
Construction beyond Title 24 2008 - 30%
Lighting Efficiency 15%
Energy Star in residential and hotel fans
No fireplaces in congregate care, all others Natural Gas
Recycling reduction 20%
Water reduction 20% - Indoor and Outdoor
22% SPV On-site
LEV III - 2.4%
Tire Pressure Program - 0.6%

Regulatory Includes:

Pavley I
LCFS
RPS additional percentage reduction - 27.4%

2030/2050:

RPS additional percentage reduction - 44.4% over 2006
EMFAC 2014 for 2030 and 2050 Vehicle Emissions
Waste Diversion +5% over 2020

BAU AB32 2008 Scoping Plan Compliance

Source	BAU	AB32 Project 2020	% Reduction	AB32 Project 2030	% Reduction	AB32 Project 2050	% Reduction
Energy - natural gas	3.0	2.5	15.2%	2.5	15.2%	2.5	15.2%
Energy - electricity	15.0	9.4	37.6%	7.8	48.2%	7.8	48.2%
Energy subtotal	18.0	11.9	33.9%	10.3	42.7%	10.3	42.7%
Vehicles	21.2	16.1	24.0%	12.1	42.8%	10.8	48.9%
Area	0.0	0.0	0.0%	0.0	0.0%	0.0	0.0%
Water	1.7	1.1	30.4%	1.0	42.2%	1.0	42.2%
Solid Waste	10.0	8.0	20.0%	2.5	75.0%	2.5	75.0%
Sub-Total	50.8	37.1	26.9%	25.8	49.1%	24.5	51.6%
Construction amortized over 30 Years	10.6	10.6	0.0%	10.6	0.0%	0.0	0.0%
TOTAL GROSS EMISSIONS	61.4	47.7	22.3%	36.5	40.6%	24.5	60.0%
Emissions from Existing Uses (in Year 2020)	0.0	0.0	0	0.0	0	0.0	0

BAU Includes:

2005 Title 24
2006 SDG&E CO2 intensity
Historic Non-Pavely and Non-LCFS

Mitigated Includes:

Pavley I
LCFS
Increased Density 2.9 DU/Acre
Increase Walkability/On-site pedestrian network
Increased Diversity (Master Planned Community in rural setting)
RPS additional percentage reduction - 27.4%
Construction beyond Title 24 2008 - 30%
Lighting Efficiency 15%
Energy Star in residential and hotel fans
No fireplaces in congregate care, all others Natural Gas
Recycling reduction 20%
Water reduction 20% - Indoor and Outdoor
22% SPV On-site
LEV III - 2.4%
Tire Pressure Program - 0.6%

Regulatory Includes:

Pavley I
LCFS
Title 24 2008

2030/2050:

RPS additional percentage reduction - 44.4% over 2006
EMFAC 2014 for 2030 and 2050 Vehicle Emissions
Waste Diversion +5% over 2020

Combined Alt and Project

Source	BAU	Project 2020	% Reduction	Project 2030	% Reduction	Project 2050	% Reduction
Energy - natural gas	3,681.6	2,595.3	29.5%	2,595.3	29.5%	2,595.3	29.5%
Energy - electricity	5,924.6	2,860.5	51.7%	2,191.3	63.0%	2,191.3	63.0%
Energy subtotal	9,606.3	5,455.7	43.2%	4,786.5	50.2%	4,786.5	50.2%
Vehicles	31,146.5	22,315.5	28.4%	16,890.2	45.8%	15,122.8	51.4%
Area	3,185.1	2,757.5	13.4%	2,757.5	13.4%	2,757.5	13.4%
Water	2,539.4	1,767.4	30.4%	1,422.1	44.0%	1,422.1	44.0%
Solid Waste	1,226.1	980.9	20.0%	914.6	25.4%	914.6	25.4%
Sub-Total	47,703.3	33,276.9	30.2%	26,770.9	43.9%	25,003.4	47.6%
Construction amortized over 30 Years	404.1	404.1		404.1	0.0%	404.1	0.0%
TOTAL GROSS EMISSIONS	48,107.4	33,681.0	30.0%	27,175.0	43.5%	25,407.5	47.2%
Emissions from Existing Uses (in Year 2020)	0.0	0.0	0	0.0	0	0.0	0
TOTAL NET EMISSIONS	48,107.4	33,681.0	30.0%	27,175.0	43.5%	0.0	
Trees (sequestration)		0.0		0.0		0.0	
With 35,000 Misc Trees		33,681.0	30.0%	27,175.0	43.5%	0.0	

BAU Includes:

2005 Title 24
2006 SDG&E CO2 intensity

Historic Non-Pavely and Non-LCFS

Mitigated Includes:

Pavley I

LCFS

Increased Density 2.9 DU/Acre

Increase Walkability/On-site pedestrian network

Increased Diversity (Master Planned Community in rural setting)

RPS additional percentage reduction - 27.4%

Construction beyond Title 24 2008 - 30%

Lighting Efficiency 15%

Energy Star in residential and hotel fans

No fireplaces in congregate care, all others Natural Gas

Recycling reduction 20%

Water reduction 20% - Indoor and Outdoor

22% SPV On-site

LEV III - 2.4%

Tire Pressure Program - 0.6%

Regulatory Includes:

Pavley I

LCFS

2030/2050:

RPS additional percentage reduction - 44.4% over 2006

EMFAC 2014 for 2030 and 2050 Vehicle Emissions

Waste Diversion +5% over 2020

County Methodology

Source	Unmitigated Project	Mitigated Project 2020	% Reduction	Mitigated Project at Buildout (2030)	% Reduction	Mitigated Project at Buildout (2050)	% Reduction
Energy - natural gas	2.9	2.5	11.6%	2.5	11.6%	2.5	11.6%
Energy - electricity	12.3	9.4	24.0%	7.8	36.9%	7.8	36.9%
Energy subtotal	15.2	11.9	21.7%	10.3	32.2%	10.3	32.2%
Vehicles	18.2	16.1	11.8%	12.1	33.6%	10.8	40.7%
Area	0.0	0.0	0.0%	0.0	0.0%	0.0	0.0%
Water	1.7	1.1	30.4%	1.0	42.2%	1.0	42.2%
Solid Waste	10.0	8.0	20.0%	7.5	25.0%	7.5	25.0%
Sub-Total	45.0	37.1	17.6%	30.8	31.5%	29.5	34.4%
Construction amortized over 20 Years	16.0	16.0	0.0%	16.0	0.0%	0.0	0.0%
TOTAL GROSS EMISSIONS	61.0	53.1	13.0%	46.8	23.3%	29.5	51.6%
Emissions from Existing Uses (in Year 2020)	0.0	0.0	0.0%	0.0	0	0.0	0

Unmitigated Includes:

2005 Title 24 & Historic Energy Factors 42184
 2006 SDG&E CO2 intensity
 Pavley I
 Reduction of 14.4% in electricity emissions under RPS to meet 20%

Mitigated Includes:

Pavley I
 LCFS
 Increased Density 2.9 DU/Acre
 Increase Walkability/On-site pedestrian network
 Increased Diversity (Master Planned Community in rural setting)
 RPS additional percentage reduction - 13% (alt method would be 14.4+13=27.4%)
 Construction beyond Title 24 2008 - 30%
 Lighting Efficiency 15%
 Energy Star in residential and hotel fans
 No fireplaces in congregate care, all others Natural Gas
 Recycling reduction 20%
 Water emissions reduced by 13% to account for affects of RPS on statewide energy supplies
 Water reduction 20% - Indoor and Outdoor
 22% SPV On-site
 LEV III - 2.4%
 Tire Pressure Program - 0.6%

2030/2050:

RPS additional percentage reduction - 44.4% over 2006
 EMFAC 2014 for 2030 and 2050 Vehicle Emissions
 Waste Diversion +5% over 2020

Combined Alt and Project

Source	Unmitigated Project	Mitigated Project 2020	% Reduction	Mitigated Project at Buildout (2030)	% Reduction	Mitigated Project at Buildout (2050)	% Reduction
Energy - natural gas	3,422.3	2,595.3	24.2%	2,595.3	24.2%	2,595.3	24.2%
Energy - electricity	4,923.0	2,860.5	41.9%	2,374.2	51.8%	2,374.2	51.8%
Energy subtotal	8,345.3	5,455.7	34.6%	4,969.4	40.5%	4,969.4	40.5%
Vehicles	26,863.7	22,315.5	16.9%	16,890.2	37.1%	15,122.8	43.7%
Area	3,185.2	2,757.5	13.4%	2,757.5	13.4%	2,757.5	13.4%
Water	2,538.9	1,767.4	30.4%	1,466.9	42.2%	1,466.9	42.2%
Solid Waste	1,226.1	980.9	20.0%	919.6	25.0%	919.6	25.0%
Sub-Total	42,159.1	33,276.9	21.1%	27,003.6	35.9%	25,236.2	40.1%
Construction amortized over 20 Years	651.0	651.0	0.0%	651.0	0.0%	567.1	12.9%
TOTAL GROSS EMISSIONS	42,810.1	33,927.9	20.7%	27,654.6	35.4%	25,803.3	39.7%
Emissions from Existing Uses (in Year 2020)	0.0	0.0	0.0%	0.0	0	0.0	#DIV/0!
TOTAL NET EMISSIONS	42,810.1	33,927.9	20.7%	27,654.6	35.4%	0.0	100.0%
Trees (sequestration)		0.0		0.0		0.0	#DIV/0!
With 35,000 Misc Trees		33,927.9	20.7%	27,654.6	35.4%	0.0	#DIV/0!

Unmitigated Includes:

2005 Title 24 & Historic Energy
Factors
2006 SDG&E CO2 intensity
Pavely I
Reduction of 14.4% in electricity emissions under RPS to meet 20%

Mitigated Includes:

Pavely I
LCFS
Increased Density 2.9 DU/Acre
Increase Walkability/On-site pedestrian network
Increased Diversity (Master Planned Community in rural setting)
RPS additional percentage reduction - 13% (alt method would be $14.4+13=27.4\%$)
Construction beyond Title 24 2008 - 30%
Lighting Efficiency 15%
Energy Star in residential and hotel fans
No fireplaces in congregate care, all others Natural Gas
Recycling reduction 20%
Water emissions reduced by 13% to account for affects of RPS on statewide energy supplies
Water reduction 20% - Indoor and Outdoor
22% SPV On-site
LEV III - 2.4%
Tire Pressure Program - 0.6%

2030/2050:

RPS additional percentage reduction - 44.4% over 2006
EMFAC 2014 for 2030 and 2050 Vehicle Emissions
Waste Diversion +5% over 2020

Fire Station Access Alt - Unmitigated - 2020
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		

1.3 User Entered Comments

Project Characteristics -
 Land Use - per project plan
 Construction Phase -
 Off-road Equipment -
 Trips and VMT -
 Vehicle Trips - per traffic report trip generation
 Woodstoves -
 Area Coating -
 Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial
 Solid Waste - Per Appendix D General Industrial
 Sequestration -

Mobile Land Use Mitigation -

Area Mitigation - PER SDAPCD Rule 67

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Per SDAPCD Rule 67

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

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					
2011	0.69	3.53	2.22	0.00	0.02	0.24	0.26	0.01	0.24	0.25	0.00	318.77	318.77	0.05	0.00	319.89
Total	0.69	3.53	2.22	0.00	0.02	0.24	0.26	0.01	0.24	0.25	0.00	318.77	318.77	0.05	0.00	319.89

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					
2011	0.69	2.14	2.16	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.77	318.77	0.05	0.00	319.89
Total	0.69	2.14	2.16	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.77	318.77	0.05	0.00	319.89

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	35.24	39.69	0.26	0.00	45.45

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	16.13	16.13	0.00	0.00	16.22
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	3.56	0.00	3.56	0.21	0.00	7.97
Water						0.00	0.00		0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.32
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.56	33.89	37.45	0.21	0.00	42.08

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 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					
Fugitive Dust					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.05	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.96
Total	0.01	0.08	0.05	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	6.94	6.94	0.00	0.00	6.96

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.29
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.29

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					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.96
Total	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.96

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.29
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.29

3.3 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	0.61	3.27	2.04	0.00		0.22	0.22		0.22	0.22	0.00	293.22	293.22	0.05	0.00	294.27
Total	0.61	3.27	2.04	0.00		0.22	0.22		0.22	0.22	0.00	293.22	293.22	0.05	0.00	294.27

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	0.00	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
Vendor	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	2.23	0.00	0.00	2.24

Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	2.88	0.00	0.00	2.88
Total	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.00	0.00	5.12

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	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.05	0.00	294.27
Total	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.05	0.00	294.27

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	0.00	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
Vendor	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	2.23	0.00	0.00	2.24
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	2.88	0.00	0.00	2.88
Total	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.00	0.00	5.12

3.4 Paving - 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	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.08	0.00	0.00	1.08
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.08	0.00	0.00	1.08

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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.08	0.00	0.00	1.08
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.08	0.00	0.00	1.08

3.5 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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Unmitigated	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	13.63	13.63	0.00	0.00	13.70
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	40500					14.34	0.00	0.00	14.42
Total						14.34	0.00	0.00	14.42

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	38480					13.63	0.00	0.00	13.70

Total						13.63	0.00	0.00	13.70
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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00

Total	0.03	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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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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.21	0.00	0.00	1.32
Unmitigated					1.52	0.00	0.00	1.65
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.1408 / 0.220226					1.52	0.00	0.00	1.65
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.11264 / 0.176181					1.21	0.00	0.00	1.32
Total						1.21	0.00	0.00	1.32

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					3.56	0.21	0.00	7.97
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	17.52					3.56	0.21	0.00	7.97
Total						3.56	0.21	0.00	7.97

9.0 Vegetation

Fire Station Access Alt - Mitigated - 2020
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		
		40		

1.3 User Entered Comments

Project Characteristics -
Land Use - per project plan
Construction Phase -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Off-road Equipment -
Trips and VMT -
Architectural Coating - Per SDAPCD Rule 67
Vehicle Trips - per traffic report trip generation
Woodstoves -
Area Coating - SDAPCD Rule 67

Energy Use - Appendix D General Industrial

Water And Wastewater - per Appendix D General Industrial

Solid Waste - Per Appendix D General Industrial

Sequestration -

Construction Off-road Equipment Mitigation - Tier III on all heavy equipment.

Mobile Land Use Mitigation -

Area Mitigation - PER SDAPCD Rule 67

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

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					
2018	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78

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					
2018	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	35.24	39.69	0.26	0.00	45.45

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	15.36	15.36	0.00	0.00	15.44
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	3.56	0.00	3.56	0.21	0.00	7.97
Water						0.00	0.00		0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.32
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.56	33.12	36.68	0.21	0.00	41.30

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2018

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					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.05	0.04	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

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					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

3.3 Building Construction - 2018

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	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26

Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

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	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

3.4 Paving - 2018

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	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

3.5 Architectural Coating - 2018

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Unmitigated	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	12.85	12.85	0.00	0.00	12.92
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	40500					14.34	0.00	0.00	14.42
Total						14.34	0.00	0.00	14.42

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	36286.2					12.85	0.00	0.00	12.92

Total						12.85	0.00	0.00	12.92
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6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.21	0.00	0.00	1.32
Unmitigated					1.52	0.00	0.00	1.65
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.1408 / 0.220226					1.52	0.00	0.00	1.65
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.11264 / 0.176181					1.21	0.00	0.00	1.32
Total						1.21	0.00	0.00	1.32

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					3.56	0.21	0.00	7.97

Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	17.52					3.56	0.21	0.00	7.97
Total						3.56	0.21	0.00	7.97

9.0 Vegetation

Fire Station Access Alt - Mitigated - 2030
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		
		40		

1.3 User Entered Comments

Project Characteristics -
 Land Use - per project plan
 Construction Phase - Construction Calculated as part of whole project
 Off-road Equipment - Construction Calculate Separately
 Trips and VMT - Construction calculated separately
 Architectural Coating - Per SDAPCD Rule 67
 Vehicle Trips - per traffic report trip generation
 Woodstoves -
 Area Coating - SDAPCD Rule 67
 Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial
 Solid Waste - Per Appendix D General Industrial

Sequestration -

Construction Off-road Equipment Mitigation - Tier III on all heavy equipment.

Mobile Land Use Mitigation -

Area Mitigation - PER SDAPCD Rule 67

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

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					
2011	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
Total	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

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					
2011	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
Total	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	33.76	38.21	0.26	0.00	43.97

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	16.14	16.14	0.00	0.00	16.22
Mobile	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Waste						0.00	0.00		0.00	0.00	3.33	0.00	3.33	0.20	0.00	7.47
Water						0.00	0.00		0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.32
Total	0.03	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.33	32.42	35.75	0.20	0.00	40.10

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 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	0.00	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
Total	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

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.00	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
Total	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

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Unmitigated	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	13.63	13.63	0.00	0.00	13.70
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined	40500					14.34	0.00	0.00	14.42
Industrial									
Total						14.34	0.00	0.00	14.42

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined	38492					13.63	0.00	0.00	13.70
Industrial									
Total						13.63	0.00	0.00	13.70

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.21	0.00	0.00	1.32
Unmitigated					1.52	0.00	0.00	1.65
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined	0.1408 /					1.52	0.00	0.00	1.65
Industrial	0.220226								
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			

User Defined Industrial	0.11264 / 0.176181					1.21	0.00	0.00	1.32
Total						1.21	0.00	0.00	1.32

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					3.33	0.20	0.00	7.47
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined	16.425					3.33	0.20	0.00	7.47
Industrial									
Total						3.33	0.20	0.00	7.47

9.0 Vegetation

Fire Station Access Alt - SMAQMD - NAT - 2020
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		

1.3 User Entered Comments

40

Project Characteristics -

Land Use - per project plan

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating - Per SDAPCD Rule 67

Vehicle Trips - per traffic report trip generation

Woodstoves -

Area Coating -
 Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial
 Solid Waste - Per Appendix D General Industrial
 Sequestration -
 Construction Off-road Equipment Mitigation -
 Mobile Land Use Mitigation -
 Area Mitigation - PER SDAPCD Rule 67
 Energy Mitigation -
 Water Mitigation -
 Waste Mitigation -

2.0 Emissions Summary

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					
2011	0.71	3.53	2.21	0.00	0.02	0.24	0.26	0.01	0.24	0.25	0.00	317.50	317.50	0.05	0.00	318.61
Total	0.71	3.53	2.21	0.00	0.02	0.24	0.26	0.01	0.24	0.25	0.00	317.50	317.50	0.05	0.00	318.61

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					
2011	0.70	2.14	2.15	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	317.50	317.50	0.05	0.00	318.61
Total	0.70	2.14	2.15	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	317.50	317.50	0.05	0.00	318.61

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.46	21.46	0.00	0.00	21.48
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	40.15	44.60	0.26	0.00	50.36

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.46	21.46	0.00	0.00	21.48
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	40.15	44.60	0.26	0.00	50.36

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 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					
Fugitive Dust					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.05	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.96
Total	0.01	0.08	0.05	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	6.94	6.94	0.00	0.00	6.96

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.19
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.19

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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.96
Total	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.96

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.19
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.19

3.3 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	0.61	3.27	2.04	0.00		0.22	0.22		0.22	0.22	0.00	293.22	293.22	0.05	0.00	294.27
Total	0.61	3.27	2.04	0.00		0.22	0.22		0.22	0.22	0.00	293.22	293.22	0.05	0.00	294.27

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	0.00	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

Vendor	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	1.86	0.00	0.00	1.86
Total	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.00	0.00	4.32

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	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.05	0.00	294.27
Total	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.05	0.00	294.27

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	0.00	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
Vendor	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	1.86	0.00	0.00	1.86
Total	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.00	0.00	4.32

3.4 Paving - 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	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
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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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.70
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.70

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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.70

Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.70
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3.5 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	0.05					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.05	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.05					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.05	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.46	21.46	0.00	0.00	21.48
Unmitigated	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.46	21.46	0.00	0.00	21.48
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

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						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
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Land Use	kBTU	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	40500					14.34	0.00	0.00	14.42
Total						14.34	0.00	0.00	14.42

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	40500					14.34	0.00	0.00	14.42
Total						14.34	0.00	0.00	14.42

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.03	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.52	0.00	0.00	1.65
Unmitigated					1.52	0.00	0.00	1.65
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.1408 / 0.220226					1.52	0.00	0.00	1.65
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.1408 / 0.220226					1.52	0.00	0.00	1.65
Total						1.52	0.00	0.00	1.65

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					4.45	0.26	0.00	9.96
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

9.0 Vegetation

Fire Station Access Alt - SMAQMD - Proposed - 2020
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)		Utility Company	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics - Utility Energy intensity factors adjusted per SCAQMD Guidance

Land Use - per project plan

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating - Per SDAPCD Rule 67

Vehicle Trips - per traffic report trip generation

Woodstoves -

Area Coating -

Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial
 Solid Waste - Per Appendix D General Industrial
 Sequestration -
 Construction Off-road Equipment Mitigation -
 Mobile Land Use Mitigation -
 Area Mitigation - PER SDAPCD Rule 67
 Energy Mitigation -
 Water Mitigation -
 Waste Mitigation -

2.0 Emissions Summary

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					
2018	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78

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					
2018	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	13.01	13.01	0.00	0.00	13.08
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.08	1.08	0.00	0.00	1.21
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	30.64	35.09	0.26	0.00	40.82

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	11.63	11.63	0.00	0.00	11.69
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	3.56	0.00	3.56	0.21	0.00	7.97
Water						0.00	0.00		0.00	0.00	0.00	0.86	0.86	0.00	0.00	0.97
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.56	29.04	32.60	0.21	0.00	37.20

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2018

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					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.05	0.04	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

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					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

3.3 Building Construction - 2018

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	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26

Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

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	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

3.4 Paving - 2018

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	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

3.5 Architectural Coating - 2018

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Unmitigated	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	9.12	9.12	0.00	0.00	9.17
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	10.18	10.18	0.00	0.00	10.23
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	40500					10.18	0.00	0.00	10.23
Total						10.18	0.00	0.00	10.23

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	36286.2					9.12	0.00	0.00	9.17

Total						9.12	0.00	0.00	9.17
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6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.03	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					0.86	0.00	0.00	0.97
Unmitigated					1.08	0.00	0.00	1.21
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.1408 / 0.220226					1.08	0.00	0.00	1.21
Total						1.08	0.00	0.00	1.21

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.11264 / 0.176181					0.86	0.00	0.00	0.97
Total						0.86	0.00	0.00	0.97

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					3.56	0.21	0.00	7.97

Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined	21.9					4.45	0.26	0.00	9.96
Industrial									
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined	17.52					3.56	0.21	0.00	7.97
Industrial									
Total						3.56	0.21	0.00	7.97

9.0 Vegetation

Fire Station Access Alt - SMAQMD - Proposed - 2030
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		
		40		

1.3 User Entered Comments

Project Characteristics - Utility Energy intensity factors adjusted per SCAQMD Guidance and 50% RPS

Land Use - per project plan

Construction Phase - Construction Calculated as part of whole project

Off-road Equipment -

Off-road Equipment - Construction Calculate Separately

Trips and VMT - Construction calculated separately

Architectural Coating - Per SDAPCD Rule 67

Vehicle Trips - per traffic report trip generation

Woodstoves -

Area Coating -

Energy Use - Appendix D General Industrial

Water And Wastewater - per Appendix D General Industrial

Solid Waste - Per Appendix D General Industrial

Sequestration -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - PER SDAPCD Rule 67

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

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					
2011	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
Total	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

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					
2011	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
Total	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	10.43	10.43	0.00	0.00	10.49
Mobile	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.93
Total	0.03	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	26.30	30.75	0.26	0.00	36.47

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	9.72	9.72	0.00	0.00	9.78
Mobile	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Waste						0.00	0.00		0.00	0.00	3.33	0.00	3.33	0.20	0.00	7.47
Water						0.00	0.00		0.00	0.00	0.00	0.64	0.64	0.00	0.00	0.75
Total	0.03	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.33	25.43	28.76	0.20	0.00	33.09

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 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	0.00	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
Total	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

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.00	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
Total	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

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Unmitigated	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	7.22	7.22	0.00	0.00	7.26
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	7.60	7.60	0.00	0.00	7.64
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined	40500					7.60	0.00	0.00	7.64
Industrial									
Total						7.60	0.00	0.00	7.64

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined	38480					7.22	0.00	0.00	7.26
Industrial									
Total						7.22	0.00	0.00	7.26

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.03	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					0.64	0.00	0.00	0.75
Unmitigated					0.80	0.00	0.00	0.93
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined	0.1408 /					0.80	0.00	0.00	0.93
Industrial	0.220226								
Total						0.80	0.00	0.00	0.93

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			

User Defined Industrial	0.11264 / 0.176181					0.64	0.00	0.00	0.75
Total						0.64	0.00	0.00	0.75

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					3.33	0.20	0.00	7.47
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined	16.425					3.33	0.20	0.00	7.47
Industrial									
Total						3.33	0.20	0.00	7.47

9.0 Vegetation

Fire Station Access Alt - BAU - 2020
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		

1.3 User Entered Comments

40

Project Characteristics -

Land Use - per project plan

Construction Phase - Construction Calculated as part of whole project

Off-road Equipment -

Off-road Equipment - Construction Calculate Separately

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Construction calculated separately

Architectural Coating - Per SDAPCD Rule 67

Vehicle Trips - per traffic report trip generation

Woodstoves -

Area Coating -

Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial
 Solid Waste - Per Appendix D General Industrial
 Sequestration -
 Construction Off-road Equipment Mitigation -
 Mobile Land Use Mitigation -
 Area Mitigation - PER SDAPCD Rule 67
 Energy Mitigation -
 Water Mitigation -
 Waste Mitigation -

2.0 Emissions Summary

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					
2018	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78

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					
2018	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.90	17.90	0.00	0.00	18.00
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.10	21.10	0.00	0.00	21.12
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	40.52	44.97	0.26	0.00	50.73

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.90	17.90	0.00	0.00	18.00
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.10	21.10	0.00	0.00	21.12
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.32
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	40.21	44.66	0.26	0.00	50.40

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2018

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					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.05	0.04	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

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					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

3.3 Building Construction - 2018

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	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26

Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

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	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

3.4 Paving - 2018

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	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

3.5 Architectural Coating - 2018

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.10	21.10	0.00	0.00	21.12
Unmitigated	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	21.10	21.10	0.00	0.00	21.12
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

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						0.00	0.00		0.00	0.00	0.00	14.95	14.95	0.00	0.00	15.03
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.95	14.95	0.00	0.00	15.03
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.97
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.97
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					

User Defined Industrial	55305	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.97
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.97

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	tons/yr										MT/yr					
User Defined Industrial	55305	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.97
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.97

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	42210					14.95	0.00	0.00	15.03
Total						14.95	0.00	0.00	15.03

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	42210					14.95	0.00	0.00	15.03
Total						14.95	0.00	0.00	15.03

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.03	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.21	0.00	0.00	1.32
Unmitigated					1.52	0.00	0.00	1.65
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			

User Defined Industrial	0.1408 / 0.220226					1.52	0.00	0.00	1.65
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.11264 / 0.176181					1.21	0.00	0.00	1.32
Total						1.21	0.00	0.00	1.32

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					4.45	0.26	0.00	9.96
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

9.0 Vegetation

Fire Station Access Alt - Mitigated - 2020
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	Utility Company	San Diego Gas & Electric
Climate Zone	13	2.6		
		Precipitation Freq (Days)		

1.3 User Entered Comments

Project Characteristics -

Land Use - per project plan

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating - Per SDAPCD Rule 67

Vehicle Trips - per traffic report trip generation

Woodstoves -

Area Coating -
 Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial
 Solid Waste - Per Appendix D General Industrial
 Sequestration -
 Construction Off-road Equipment Mitigation -
 Mobile Land Use Mitigation -
 Area Mitigation - PER SDAPCD Rule 67
 Energy Mitigation -
 Water Mitigation -
 Waste Mitigation -

2.0 Emissions Summary

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					
2018	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.39	2.07	1.96	0.00	0.02	0.12	0.13	0.01	0.12	0.12	0.00	318.18	318.18	0.03	0.00	318.78

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					
2018	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78
Total	0.68	2.13	2.14	0.00	0.01	0.16	0.17	0.00	0.16	0.17	0.00	318.18	318.18	0.03	0.00	318.78

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	35.24	39.69	0.26	0.00	45.45

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	15.36	15.36	0.00	0.00	15.44
Mobile	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Waste						0.00	0.00		0.00	0.00	3.56	0.00	3.56	0.21	0.00	7.97
Water						0.00	0.00		0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.32
Total	0.03	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.56	33.12	36.68	0.21	0.00	41.30

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2018

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					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.05	0.04	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95
Total	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	6.94	6.94	0.00	0.00	6.95

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25

3.3 Building Construction - 2018

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	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.33	1.91	1.80	0.00		0.11	0.11		0.11	0.11	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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

Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

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	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78
Total	0.63	2.00	1.97	0.00		0.15	0.15		0.15	0.15	0.00	293.22	293.22	0.03	0.00	293.78

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	0.00	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
Vendor	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	2.26	0.00	0.00	2.26
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	0.00	0.00	2.46
Total	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.00	0.00	4.72

3.4 Paving - 2018

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	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.01	0.09	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
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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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.88

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	0.00	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92
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3.5 Architectural Coating - 2018

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.04					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.04	0.02	0.02	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Unmitigated	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	16.55	16.55	0.00	0.00	16.57
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	12.85	12.85	0.00	0.00	12.92
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined Industrial	40500					14.34	0.00	0.00	14.42
Total						14.34	0.00	0.00	14.42

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			

User Defined Industrial	36286.2					12.85	0.00	0.00	12.92
Total						12.85	0.00	0.00	12.92

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower
 Use Electric Leafblower
 Use Electric Chainsaw
 Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
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SubCategory	tons/yr										MT/yr					
Architectural Coating	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Consumer Products	0.02					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	0.00	
Total	0.03	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.21	0.00	0.00	1.32
Unmitigated					1.52	0.00	0.00	1.65

Total	NA	NA	NA	NA	NA	NA	NA	NA
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.1408 / 0.220226					1.52	0.00	0.00	1.65
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined Industrial	0.11264 / 0.176181					1.21	0.00	0.00	1.32
Total						1.21	0.00	0.00	1.32

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			

Mitigated					3.56	0.21	0.00	7.97
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	21.9					4.45	0.26	0.00	9.96
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined Industrial	17.52					3.56	0.21	0.00	7.97
Total						3.56	0.21	0.00	7.97

9.0 Vegetation

Fire Station Access Alt - 2008 EP Proposed - 2030
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
User Defined Industrial	4.5	User Defined Unit

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)		Utility Company	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			
			40		

1.3 User Entered Comments

Project Characteristics -
 Land Use - per project plan
 Construction Phase - Construction Calculated aspart of whole project
 Off-road Equipment -
 Off-road Equipment - Construction Calculate Separately
 Trips and VMT - Construction calculated seoerately
 Architectural Coating - Per SDAPCD Rule 67
 Vehicle Trips - per traffic report trip generation
 Woodstoves -
 Area Coating -
 Energy Use - Appendix D General Industrial
 Water And Wastewater - per Appendix D General Industrial

Solid Waste - Per Appendix D General Industrial

Sequestration -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - PER SDAPCD Rule 67

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

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					
2011	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
Total	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

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					
2011	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
Total	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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	17.17	17.17	0.00	0.00	17.27
Mobile	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Waste						0.00	0.00		0.00	0.00	4.45	0.00	4.45	0.26	0.00	9.96
Water						0.00	0.00		0.00	0.00	0.00	1.52	1.52	0.00	0.00	1.65
Total	0.03	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	4.45	33.76	38.21	0.26	0.00	43.97

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.02	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
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	15.36	15.36	0.00	0.00	15.44
Mobile	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Waste						0.00	0.00		0.00	0.00	3.33	0.00	3.33	0.20	0.00	7.47
Water						0.00	0.00		0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.32
Total	0.03	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	3.33	31.64	34.97	0.20	0.00	39.32

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 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	0.00	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
Total	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

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	0.00	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
Vendor	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
Worker	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
Total	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

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	0.00	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
Total	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

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	0.00	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
Vendor	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
Worker	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
Total	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

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Unmitigated	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.07	15.07	0.00	0.00	15.09
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	15.98	15.98	15.98	42,184	42,184
Total	15.98	15.98	15.98	42,184	42,184

4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
User Defined Industrial	14.70	6.60	6.60	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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						0.00	0.00		0.00	0.00	0.00	12.85	12.85	0.00	0.00	12.92
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	14.34	14.34	0.00	0.00	14.42
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
User Defined Industrial	53055	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85
Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.83	2.83	0.00	0.00	2.85

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	tons/yr										MT/yr					
User Defined Industrial	46926	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52

Total		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined	40500					14.34	0.00	0.00	14.42
Industrial									
Total						14.34	0.00	0.00	14.42

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
User Defined	36286.2					12.85	0.00	0.00	12.92
Industrial									
Total						12.85	0.00	0.00	12.92

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.02	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
Unmitigated	0.02	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
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.01					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.03	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

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.02					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	0.00	0.00
Total	0.02	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

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1.21	0.00	0.00	1.32
Unmitigated					1.52	0.00	0.00	1.65
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined	0.1408 /					1.52	0.00	0.00	1.65
Industrial	0.220226								
Total						1.52	0.00	0.00	1.65

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
User Defined	0.11264 /					1.21	0.00	0.00	1.32
Industrial	0.176181								
Total						1.21	0.00	0.00	1.32

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					3.33	0.20	0.00	7.47
Unmitigated					4.45	0.26	0.00	9.96
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined	21.9					4.45	0.26	0.00	9.96
Industrial									
Total						4.45	0.26	0.00	9.96

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
User Defined	16.425					3.33	0.20	0.00	7.47
Industrial									
Total						3.33	0.20	0.00	7.47

9.0 Vegetation
