

## MEMORANDUM

---

**To:** Mr. Greg Mattson, Project Manager, San Diego County  
**From:** Samantha Wang, Dudek  
**Subject:** Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Areas 16/19 Proposed Project Amendment  
**Date:** December 23, 2019  
**cc:** GDCI Proctor Valley L.P.; Sean Kilkenny and Jennifer Reed, Dudek  
**Attachment A:** CalEEMod Output Files

---

### Introduction

This Memorandum reflects proposed changes to the Otay Ranch Village 14 and Planning Areas 16/19 Project that was approved by the San Diego County Board of Supervisors on June 26, 2019 (Approved Project). The changes to the Approved Project would reconfigure the development footprint to consolidate development in Village 14; add 147 units, for a total of 1,266 residential units; and reduce impacts by approximately 230 acres, to 579 acres (the Proposed Project Amendment). Figure 1, Regional Location Map, shows the regional location of the Approved Project Area and the Proposed Project Amendment Project Area, in the County of San Diego (County).

An Environmental Impact Report (EIR) was prepared for the Approved Project and was certified by the Board on June 26, 2019. The Final EIR analyzed the potential impacts of the Approved Project. The Final EIR also analyzed potential impacts associated with the EIR Land Exchange Alternative, which was one of the alternatives to the Approved Project. The Final EIR is incorporated herein by reference, the results are summarized in Section 3, and mitigation measures and project design features are described in Section 5.

The Final EIR analyzed the Approved Project's potential impacts to air quality in Section 2.3, Air Quality. This Air Quality Technical Memorandum was prepared for the Proposed Project Amendment. The purpose of this analysis is to evaluate whether, and to what extent, the potential impacts of the Proposed Project Amendment to air quality differ from those of the Approved Project and, if appropriate, the EIR Land Exchange Alternative. This technical memorandum includes the following sections: (1) background, (2) Proposed Project Amendment description, (3) summary of the Approved Project's impacts to air quality, (4) analysis of the Proposed Project Amendment's impacts to air quality, (5) mitigation measures and project design features, and (6) conclusion.

For additional context, the following terminology is used in this Technical Memorandum.

## Terminology

**Approved Project:** The project described in Otay Ranch Village 14 and Planning Areas 16/19 Tentative Map 5616, Specific Plan 16-002, and the certified EIR, which the County of San Diego (County) approved on June 26, 2019. The Approved Project permits 1,119 residential units within a Project Area of approximately 1,369 acres. The Development Footprint of the Approved Project is 809 acres.

**Conserved Open Space:** Conserved Open Space refers to 24.5 acres of land within the Project Area, which, while designated in the Otay Ranch General Development Plan/Otay Subregional Plan (Otay Ranch GDP/SRP) (City of Chula Vista and County of San Diego 1993) for residential uses within Village 14 and Planning Areas 16/19, will not be developed as part of the Proposed Project Amendment. Instead, the Conserved Open Space will be preserved on site and be (a) added to the Otay Ranch Resource Management Plan (RMP) Preserve (through a future RMP Amendment), (b) managed under a separate RMP, or (c) utilized to mitigate impacts to the City of San Diego Multiple Species Conservation Program Cornerstone Lands. The Conserved Open Space areas are located adjacent to Otay Ranch RMP Preserve and will be conserved by recording a biological open space easement over the land.

**Development Footprint:** The areas where a given project will cause permanent or temporary ground disturbance. The Development Footprint includes all on-site development, off-site improvements, and impacts resulting from infrastructure and other allowable uses within the Otay Ranch Resource Management Plan (RMP) Preserve.

**EIR Land Exchange Alternative:** The project alternative identified as the “Land Exchange Alternative” in Chapter 4 of the certified Final EIR. This Land Exchange Alternative contemplated a land exchange with the California Department of Fish and Wildlife (CDFW) and would develop 1,530 residential units within a Project Area of approximately 2,387.6 acres, with a Development Footprint of 658.3 acres.

**Off-Site Improvements:** Off-site improvements total approximately 40.1 acres and include Proctor Valley Road, wet and dry utilities, drainage facilities, trails, an off-site sewer pump station in the southern reach of Proctor Valley Road, and off-site sewer facilities to connect to the Salt Creek Interceptor as planned since 1994.

**Project Area:** The total land area for the Proposed Project Amendment as contemplated in the proposed land exchange between applicant and CDFW.<sup>1</sup> The Project Area consists of approximately 1,283.6 acres currently owned by GDCI Proctor Valley, L.P., the owner/applicant, 219.4 acres currently owned by CDFW, and approximately 40.1 acres of off-site improvements, for a total of 1,543 acres.

**Proposed Project Amendment:** The Proposed Project Amendment reflects proposed changes to the Approved Project, which would add 147 units for a total of 1,266 residential units and would reduce the Development Footprint by approximately 230 acres, to a total of 579 acres, within a Project Area of 1,543 acres, as shown on Figure 2, Site Utilization Plan, and more fully described below in Section 2. The Proposed Project Amendment includes a Revised Tentative Map and Specific Plan Amendment. As contemplated in the Dispute Resolution Agreement, the Proposed Project Amendment assumes and will require a County-initiated amendment to the

---

<sup>1</sup> As indicated above, the land exchange necessary to implement the Proposed Project Amendment must be approved by the California Wildlife Conservation Board.

*Memorandum*

*Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment*

---

Multiple Species Conservation Program (MSCP) County Subarea Plan. Because the amendment to the MSCP County Subarea Plan will be initiated by the County, it is not part of the Proposed Project Amendment.

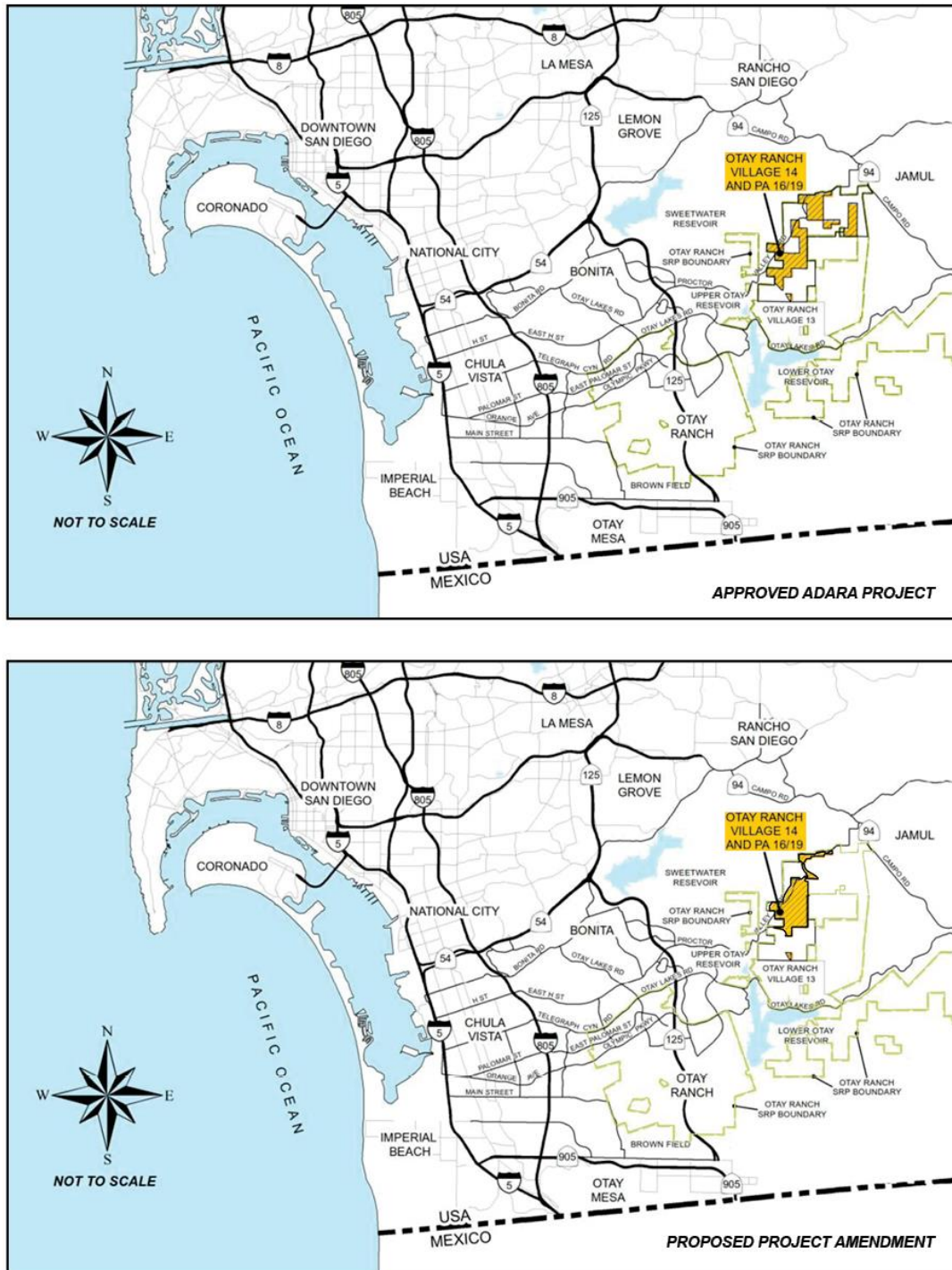
**PV1 and PV3:** PV1 and PV3 are areas of the Approved Project located in Village 14 as shown on Figure 3 attached.

**Revised Tentative Map:** The Revised Tentative Map reflects revisions to the June 26, 2019, Approved Tentative Map #5616 that are necessary to process and implement the land exchange with CDFW and the Proposed Project Amendment in the County.

**Specific Plan Amendment:** The Specific Plan Amendment reflects revisions to the June 26, 2019, Approved Specific Plan #16-002 that are necessary to process and implement the land exchange with CDFW and the Proposed Project Amendment in the County.

Memorandum

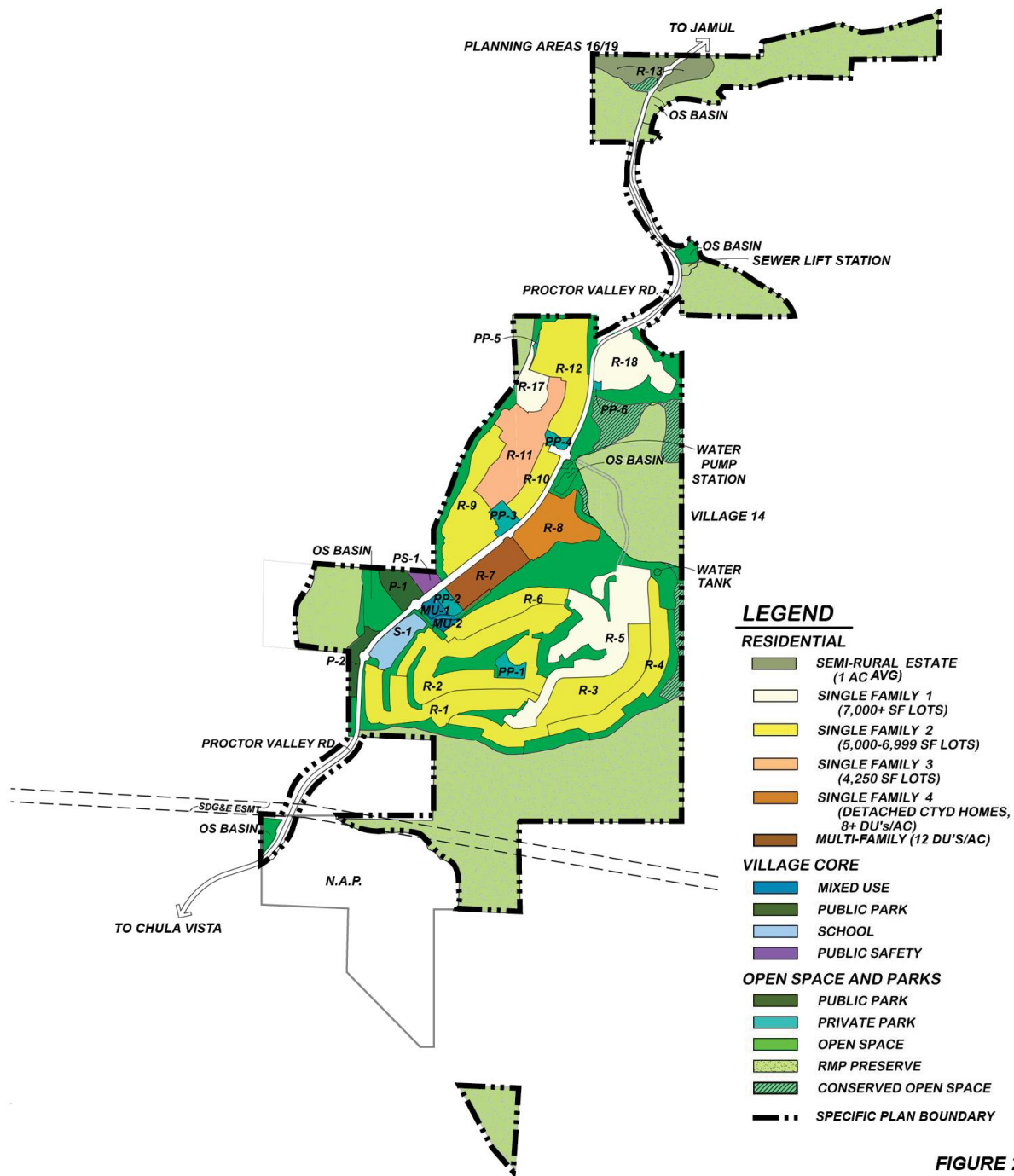
Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment



**FIGURE 1**  
**Regional Location Map**

Memorandum

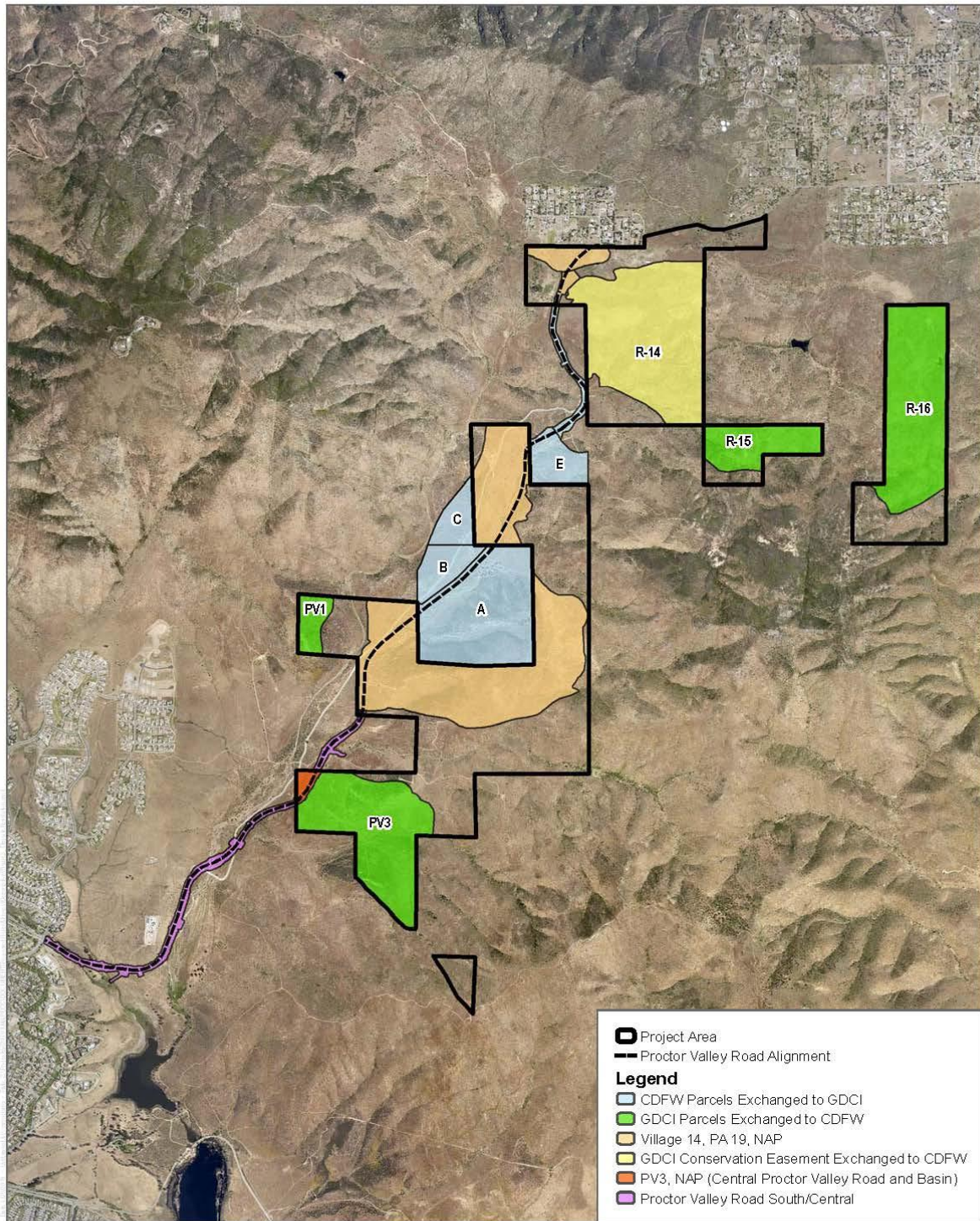
Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment



**FIGURE 2**  
**Proposed Project Amendment**  
Otay Ranch Village 14 and Planning Areas 16/19

Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment



SOURCE: SANGIS 2017; Hunsaker 2019

**DUDEK** 0 1,400 2,800 Feet

**FIGURE 3**  
**Proposed Land Exchange**  
Otay Ranch Village 14 and Planning Areas 16/19

## Section 1. Background

The Proposed Project Amendment Project Area comprises approximately 1,543 acres of undeveloped land within the Proctor Valley area of the 23,000-acre Otay Ranch master planned community (see Figure 4, Proposed Project Amendment Project Area). The Proposed Project Amendment reflects proposed changes to the Approved Project, including a proposed land exchange with the California Department of Fish and Wildlife (CDFW).

On June 27, 2019, the owner/applicant of the Approved Project entered into a Dispute Resolution Agreement with CDFW, the U.S. Fish and Wildlife Service, and the County. Pursuant to this agreement, the owner/applicant would seek a land exchange with CDFW through a process overseen by the California Wildlife Conservation Board. The proposed land exchange, if approved by the Wildlife Conservation Board, would require the owner/applicant to (i) transfer 147.3 acres in Village 14 and 192.4 acres in Planning Area 16 to CDFW, and (ii) record a conservation easement over 191.5 acres in Planning Area 16. In exchange, CDFW would transfer 219.4 acres in Village 14 to the owner/applicant. The Proposed Project Amendment would then be implemented upon the lands within the applicant's ownership, including those received via the Wildlife Conservation Board land exchange. Because the Proposed Project Amendment assumes the above-described land exchange, it would result in a different development footprint than the Approved Project's development footprint. Therefore, a Specific Plan Amendment to the approved Village 14 and Planning Areas 16/19 Specific Plan and a Revised Tentative Map are required processes for the Proposed Project Amendment.

While the Proposed Project Amendment and EIR Land Exchange Alternative both contemplate exchanges of land with the CDFW, the Development Footprints and other aspects differ. It is important to note that the Development Footprint of the Proposed Project Amendment was assessed in the certified Final EIR as part of the Approved Project Development Footprint and as part of the EIR Land Exchange Alternative Development Footprint.

## Section 2. Proposed Project Amendment Description and Summary of Amendment/Revisions

The Proposed Project Amendment proposes 1,266 residential units within a Project Area of 1,543 acres. The Proposed Project Amendment Development Footprint would be approximately 578.6 acres, which would consist of approximately 513.1 acres within Otay Ranch Village 14, 25.2 acres within Otay Ranch Planning Area 19, and 40.1 acres of off-site improvements (i.e., Proctor Valley Road). Of the 1,266 residential units, 1,253 units would be located in Village 14 (consistent with the Otay Ranch GDP/SRP) and 13 units would be located in Planning Area 19 (consistent with the Otay Ranch GDP/SRP) (City of Chula Vista and County of San Diego 1993). The Proposed Project Amendment is depicted in Figure 2 and summarized in Tables 1 through 3.

As described above, the Proposed Project Amendment would also include a land exchange between the owner/applicant and CDFW, which would require the owner/applicant to transfer 339.7 acres to CDFW and record a conservation easement over 191.5 acres, and, in exchange, CDFW would transfer 219.4 acres in Village 14 to the owner/applicant to create a consolidated Development Footprint. The proposed land exchange between the applicant and CDFW is depicted in Figure 3. As defined above, the Proposed Project Amendment requires a Specific Plan Amendment and Revised Tentative Map, which must be approved by the County. The Revised Tentative Map

*Memorandum*

*Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment*

---

would replace that certain approved Tentative Map TM #5616, approved by the County on June 26, 2019. The Specific Plan Amendment would amend the Specific Plan 16-002 to reflect the Proposed Project Amendment, including the Revised Tentative Map and the land exchange with CDFW.

Table 1. Village 14 and Planning Areas 16/19 Proposed Project Amendment Site Utilization Plan Summary

Description	Village 14		Planning Area 16/19		Total Proposed Project Amendment	
	Gross Acres	Units	Gross Acres	Units	Gross Acres	Units
<b>Residential Subtotal <sup>(1)</sup></b>	<b>386.6</b>	<b>1,253</b>	<b>14.9</b>	<b>13</b>	<b>401.4</b>	<b>1,266</b>
<b>Non-Residential Uses</b>						
Mixed Use <sup>(2)</sup>	2.7				2.7	
Public Parks	10.2				10.2	
Private Parks/Recreation <sup>(3)</sup>	9.5				9.5	
Public Safety Site	2.3				2.3	
Elementary School Site	9.9				9.9	
Open Space	47.8		1.7		49.5	
Conserved Open Space	23.0		1.5		24.5	
Otay Ranch RMP Preserve	278.6		98.4		377.0	
Circulation	23.3		3.4		26.7	
<i>Non-Residential Uses Subtotal</i>	<i>407.2</i>		<i>105.0</i>		<i>512.1</i>	<i>-</i>
<b>Total Proposed Project Amendment <sup>4</sup></b>	<b>793.7</b>	<b>1,253</b>	<b>119.8</b>	<b>13</b>	<b>913.6</b>	<b>1,266</b>
Other Off-sites						
Off-site Improvements	40.1				40.1	
Off-site Preserve PA 16			58.2		58.2	
Parcels Exchanged to CDFW	147.3		192.4		339.7	
Conservation Easement PA 16			191.5		191.5	
<b>Total Proposed Project Amendment Area</b>					<b>1,543.1</b>	<b>1,266</b>

Notes: PA = Planning Area, CDFW = California Department of Fish and Wildlife.

<sup>1</sup> Residential gross acres includes 96.7 acres of related internal slopes, fuel modification and/or preserve edge open space lots.

<sup>2</sup> Village 14 Mixed Use acreage includes 10,000 sf of commercial use.

<sup>3</sup> Village 14 has 2.1 acres of private pocket parks included in the residential acreage; therefore, the subtotal including PPP is 11.7 acres.

<sup>4</sup> Totals may not sum due to rounding

Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment

**Table 2. Proposed Project Amendment Site Utilization Plan Detail (Village 14)**

Description		Gross Acres <sup>(1,2)</sup>	Units <sup>(3)</sup>	Density
<b>Single Family Residential</b>				
R-1	50*100	33.1	103	3.1
R-2	60*100	48.3	136	2.8
R-3	60*85	35.8	112	3.1
R-4	60*100	31.5	73	2.3
R-5	75*100	51.7	121	2.3
R-6	60*85	22.5	47	2.1
R-8	Courtyard	21.1	116	5.5
R-9	60*85	33.0	96	2.9
R-10	60*85	8.5	31	3.7
R-11	50*85	25.4	119	4.7
R-12	50*100	27.6	94	3.4
R-17	70*100	7.4	10	1.4
R-18	70*100	27.8	45	1.6
<i>Single Family Residential Subtotal</i>		373.8	1,103	3.0
<b>Multi-Family</b>				
R-7	MF	12.7	150	11.8
<i>MF Subtotal</i>		12.7	150	11.8
<b>Residential Subtotal <sup>(3)(4)</sup></b>		<b>386.6</b>	<b>1,253</b>	<b>3.2</b>
<b>Non-Residential Uses</b>				
Mixed Use <sup>(2)</sup>	MU - C	2.7		
<b>Public Parks</b>				
P-1	Village Green Park	6.2		
P-2	Scenic Park	3.9		
<i>Public Parks Subtotal</i>		10.2		
<b>Private Parks &amp; Recreation</b>				
PP-1	Central	2.8		
PP-2	Village Core	2.1		
PP-3	West	1.9		
PP-4	West	1.5		
PP-5	northwest	0.8		
PP-6	Northeast	0.4		
PPP <sup>(3)</sup>	Various	0.0		
<i>Private Parks/Recreation Subtotal</i>		9.5		
Public Safety Site		2.3		
Elementary School Site		9.9		
Open Space		47.8		
Conserved Open Space		23.0		
Otay Ranch RMP Preserve		274.9		
Circulation - In Preserve		3.7		

Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment

**Table 2. Proposed Project Amendment Site Utilization Plan Detail (Village 14)**

Description	Gross Acres <sup>(1,2)</sup>	Units <sup>(3)</sup>	Density
Circulation – Arterial	23.3		
<i>Non-Residential Uses Subtotal</i>	<i>407.2</i>		
<b>Village 14 Subtotal</b>	<b>793.7</b>	<b>1,253</b>	<b>1.6</b>

**Notes:**

- <sup>1</sup> Residential gross acres includes 96.5 acres of related internal slopes, fuel modification and/or preserve edge open space lots.
- <sup>2</sup> Village 14 Mixed Use acreage includes 10,000 sf of commercial use.
- <sup>3</sup> Village 14 has 2.1 acres of private pocket parks included in the residential acreage; therefore, the subtotal including PPP is 11.6 acres.
- <sup>4</sup> Totals may not sum due to rounding

**Table 3. Proposed Project Amendment Site Utilization Plan Detail  
(Planning Areas 16/19)**

Description	Gross Acres	Units	Density
<b>Residential Uses</b>			
R-13 ( PA 19 Estates)	14.9	13	0.9
<i>Residential Subtotal <sup>(1)</sup></i>	<i>14.9</i>	<i>13</i>	<i>0.9</i>
<b>Non-Residential Uses</b>			
Circulation in Preserve	1.4		
Open Space	1.7		
Conserved Open Space	1.5		
Otay Ranch RMP Preserve	97.0		
Circulation Arterial	3.4		
<i>Non-Residential Uses Subtotal</i>	<i>105.0</i>		
<i>Planning Area 19 Subtotal</i>	<i>119.8</i>	<i>13</i>	<i>0.1</i>
<b>Proposed Project Amendment Total <sup>(2)</sup></b>	<b>913.6</b>	<b>1,266</b>	<b>1.4</b>

**OTHER**

Description	Gross Acres <sup>(1)</sup>	Target Units	Density
<b>Other Applicant Owned NAP of TM</b>			
PV1 exchanged to CDFW	18.9		
PV3 exchanged to CDFW	128.4		
R-15 Exchanged to CDFW	49.9		
R-16 Exchanged to CDFW	142.5		
R-14 Conservation Easement Area	191.5		
R-15 Preserve	10.5		
R-16 Preserve	47.8		
<i>Subtotal</i>	<i>589.5</i>		
<b>Off-site Acres</b>	<b>40.1</b>		
<b>Proposed Project Amendment Project Area</b>	<b>1,543.1</b>	<b>1,266</b>	

**Notes:** PA = Planning Area.

- <sup>1</sup> Residential gross acres includes 2.1 acres of related internal slopes, fuel modification and/or preserve edge open space lots.
- <sup>2</sup> Totals may not sum due to rounding

### Proposed Project Amendment Relative to the Approved Project and the EIR Land Exchange Alternative.

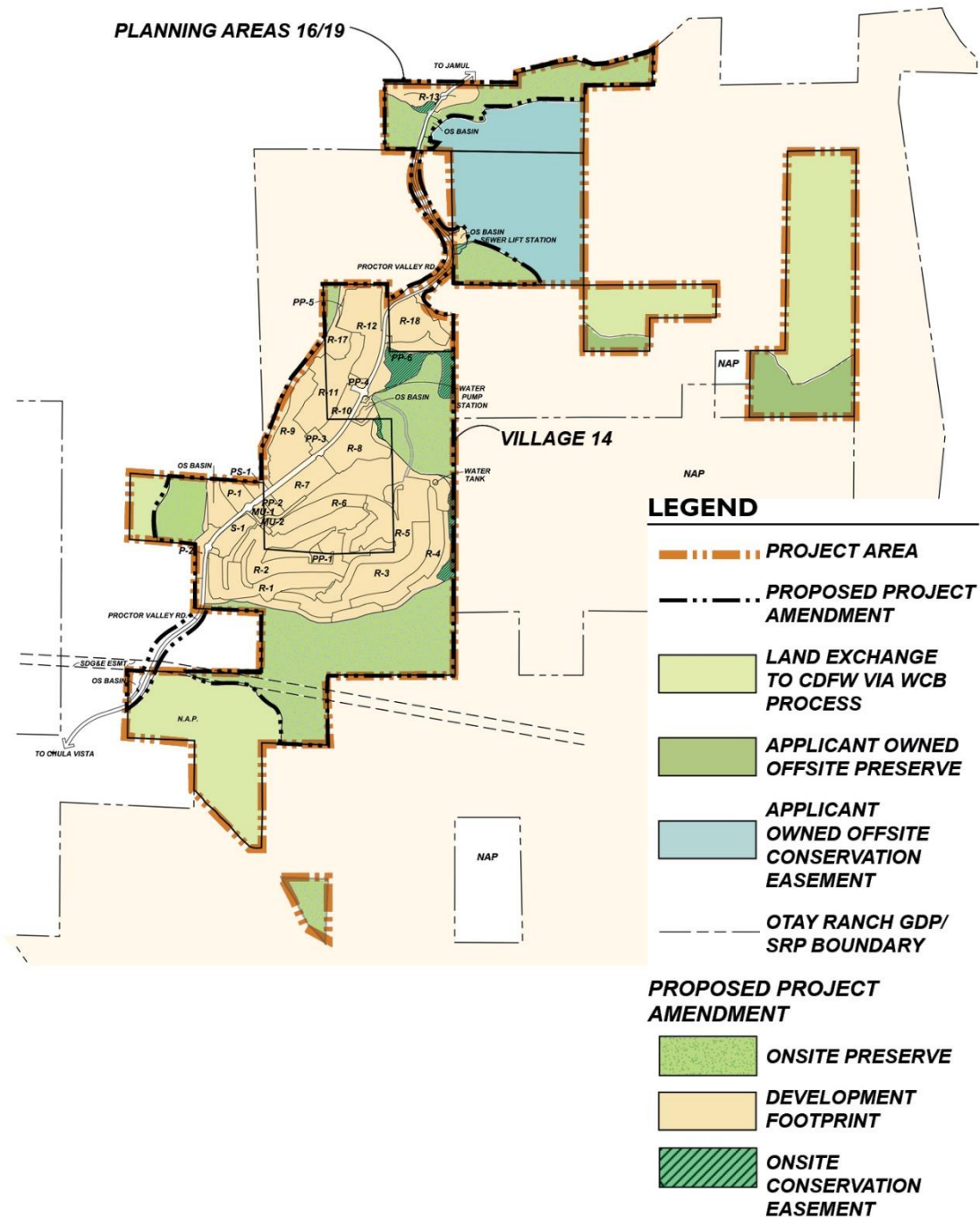
The Final EIR evaluated both the Approved Project and the EIR Land Exchange Alternative at a project level of analysis. This Technical Memorandum examines whether the Final EIR, through its analysis of the Approved Project and the EIR Land Exchange Alternative, covered all anticipated impacts of the Proposed Project Amendment. Figure 5 depicts the limits of the development contemplated under the Approved Project, the EIR Land Exchange Alternative, and the Proposed Project Amendment. Table 4 provides a summary of the components for the Proposed Project Amendment, the Approved Project, and the EIR Land Exchange Alternative. Note that from a geographical perspective, each acre that comprises the Proposed Project Amendment's Development Footprint is located either within the Approved Project Development Footprint or within the EIR Land Exchange Alternative Development Footprint. In other words, no portion of the Proposed Project Amendment Development Footprint is outside the combined Approved Project and EIR Land Exchange Alternative Development Footprints.

**Table 4. Proposed Project Amendment Comparison to Approved Project and EIR Land Exchange Alternative**

Description	Proposed Project Amendment	Approved Project	EIR Land Exchange Alternative
Development Footprint (Acres)	579	809	658
Project Area (Acres)	1,543	1,369	2,388
Off-sites (Acres)	40	85	40
Units	1,266	1,119	1,530
Proctor Valley Rd.	Same	Same	Same

Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment



**FIGURE 4**  
**Proposed Project Amendment – Project Area**  
Otay Ranch Village 14 and Planning Areas 16/19

Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment

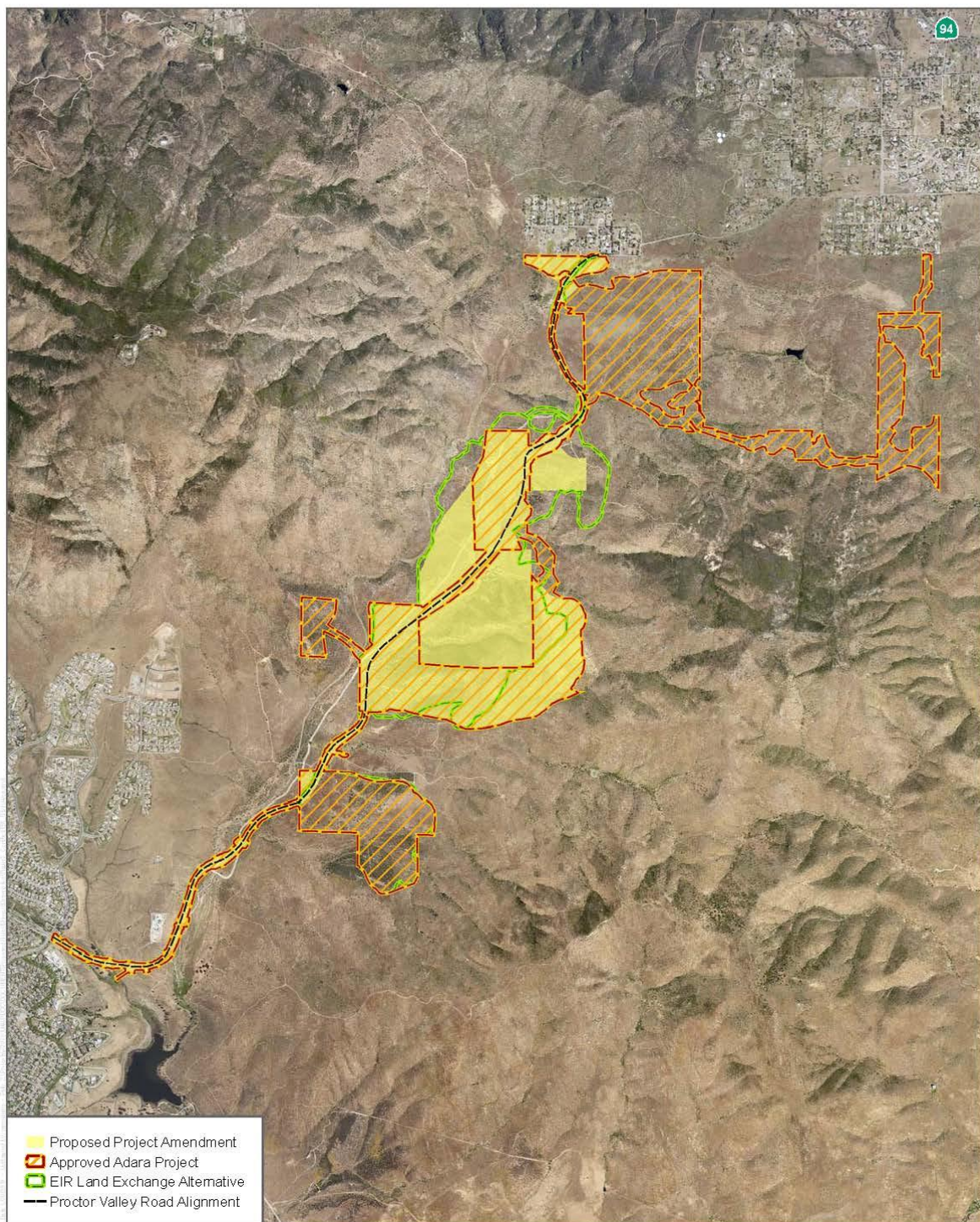


FIGURE 5

Certified EIR Study Area

Otay Ranch Village 14 and Planning Areas 16/19

## Section 2.1 Project Design Features

The following section provides a complete list of project design features (PDFs) from Section 1.2.5, Project Design Features, in Appendix 2.3-1 of the Approved Project's Final EIR, which would also be implemented as part of the Proposed Project Amendment. These measures are also included in the Proposed Project Amendment Energy Conservation Plan (Appendix VII to the Proposed Project Amendment Specific Plan). The PDFs are required for the Approved Project by the adopted Mitigation Monitoring and Reporting Program (MMRP) and would be implemented as PDFs of the Proposed Project Amendment.

**PDF-AQ-1 Fugitive Dust Control.** The Proposed Project Amendment shall implement the following measures to minimize fugitive dust ( $PM_{10}$  and  $PM_{2.5}$ ), comply with County Code Section 87.428 (Grading Ordinance), and comply with San Diego Air Pollution Control District (SDAPCD) Rule 55 (Fugitive Dust Control):

- a. Water or another SDAPCD-approved dust control non-toxic agent shall be used on the grading areas at least three times daily.
- b. All main roadways shall be constructed and paved as early as possible in the construction process.
- c. Building pads shall be finalized as soon as possible following site preparation and grading activities.
- d. Grading areas shall be stabilized as quickly as possible.
- e. Chemical stabilizer shall be applied, a gravel pad shall be installed, or the last 100 feet of internal travel path within the construction site shall be paved prior to public road entry and for all haul roads.
- f. Wheel washers shall be installed adjacent to the apron indicated in (c) for tire inspection and washing prior to vehicle entry on public roads.
- g. Visible track-out into traveled public streets shall be removed with the use of sweepers, water trucks, or similar method within 30 minutes of occurrence.
- h. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.
- i. Unpaved construction site egress points shall be graveled to prevent track-out.
- j. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.
- k. Transported material in haul trucks shall be watered or treated.
- l. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.
- m. On-site stockpiles of excavated material shall be covered.
- n. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.
- o. Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.

- p. Construction traffic control plans shall route delivery and haul trucks required during construction away from sensitive receptor locations and congested intersections to the extent feasible. Construction Traffic Control plans shall be finalized and approved prior to issuance of grading permits.

**PDF-AQ-2 Construction Architectural Coating Limits.** The Proposed Project Amendment shall comply with the following volatile organic compound (VOC) content limits for architectural coatings during construction for residential and non-residential and uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.

**PDF-AQ/GHG-1 Wood-Burning Stoves and Fireplaces.** Prior to the issuance of residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that no wood-burning stoves or fireplaces would be constructed.

**PDF-AQ/GHG-2 Zero-Net Energy Development – Residential Land Uses.** Prior to the issuance of residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating compliance with the zero net energy (ZNE) design standards defined by the California Energy Commission.

**PDF-AQ/GHG-3 Non-Residential Energy Improvement Standards.** Prior to the issuance of non-residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that the Proposed Project Amendment's non-residential land uses shall achieve a 10% greater building energy efficiency than required by the 2016 state energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.

**PDF-AQ/GHG-4 Energy Star Appliances.** All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy Star rated or equivalent.

**PDF-AQ/GHG-5 Solar Water Heating.** Prior to the issuance of private recreation center building permits, the Proposed Project Amendment applicant or its designee shall submit swimming pool heating design plans to the County of San Diego for review and approval. The design plans shall demonstrate that swimming pools located at private recreation centers in the Proposed Project Amendment Area have been designed and shall be constructed to use solar water heating or other technology with an equivalent level of energy efficiency.

**PDF-AQ/GHG-6 Efficient Outdoor Lighting.** Prior to the issuance of permits, the Proposed Project Amendment applicant or its designee shall submit building plans that demonstrate that all outdoor lighting shall be (light emitting diodes) LED or other high efficiency lightbulbs

**PDF-AQ/GHG-7 Energy Efficiency Education.** All new home packets shall provide information on energy efficiency, energy efficient lighting and lighting control systems, energy management, and existing energy incentive programs.

**PDF-AQ/GHG-8 Cool Roofs.** Prior to the issuance of residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that residential structures shall meet the U.S. Green Building Council standards for cool roofs. This is defined as achieving a three-year solar reflectance index (SRI) of 64 for a low-sloped roof and an SRI of 32 for a high-sloped roof.

Prior to the issuance of non-residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating non-residential structures shall meet the U.S. Green Building Council standards for cool roofs. This is defined as achieving a three-year SRI of 64 for a low-sloped roof and 32 for a high-sloped roof.

**PDF-AQ/GHG-9 Cool Pavements.** Prior to the issuance of building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that outdoor pavement, such as walkways and patios shall use paving materials with three-year SRI of 0.28 or initial SRI of 0.33.

**PDF-AQ/GHG-10 Electric Vehicle Charging Stations.** Prior to the issuance of residential building permits, the applicant or its designee shall submit plans for the installation of a dedicated 208/240 dedicated branch circuit will be included in each garage and one Level 2 electric vehicle (EV) charging station in the garage of half of all residential units to the County of San Diego for review and approval. Prior to the issuance of non-residential building permits in the Proposed Project Amendment's Village Core area, the applicant or its designee shall submit plans for the installation of Level 2 EV charging stations in 10 parking spaces located in the Village Core's commercial development area and P1 through P4 park area parking spaces to the County of San Diego for review and approval.

**PDF-TR-1 Transportation Demand Management.** The Proposed Project Amendment applicant or its designee shall implement a Transportation Demand Management (TDM) Program to facilitate increased opportunities for transit, bicycling, and pedestrian travel, as well as provide the resources, means, and incentives for ride-sharing and carpooling. The following components are to be included in the TDM Program:

- Develop a comprehensive pedestrian network designed to provide safe bicycle and pedestrian access between the various Proposed Project phases, land uses, parks/open spaces, schools, and the Village Core. Where approved by the appropriate jurisdiction, the pedestrian network would also provide connections to the various recreational trails and multi-modal facilities accessing the Project Area.
- Provide bicycle racks along main travel corridors adjacent to commercial developments and at public parks and open spaces within the Project Area.
- Coordinate with the San Diego Association of Governments (SANDAG) iCommute program for carpool, vanpool, and rideshare programs that are specific to the Proposed Project.
- Promote available websites providing transportation options for residents and businesses.
- Create and distribute a "new resident" information packet addressing alternative modes of transportation for residential and commercial residents.
- Coordinate with San Diego Metropolitan Transit System and SANDAG about the future sighting of transit stops/stations within the Project Area.

- Provide a school carpool program by coordinating with the local school district and SANDAG. Provide dedicated parking space for the school carpool program in the Village Core.
- Implement a school bus program in coordination with the school district.
- Require homeowner's associations within the Project Area to coordinate with the local school district and partner with the on-site elementary school to create a "walking school bus program" for neighborhood students to safely walk to and from school. The Proposed Project applicant would also coordinate with the local school district to encourage the provision of bicycle storage facilities at the on-site elementary school.

## Section 2.2 Mitigation Measures

Mitigation measures in Appendix 2.3-1 of the Approved Project's Final EIR would also be implemented as part of the Proposed Project Amendment. The mitigation measures are required for the Approved Project by the adopted MMRP and would be implemented by the Proposed Project Amendment.

**M-AQ-1 Tier 4 Final Rock Crushing Equipment.** Prior to the commencement of any rock crushing activities, the applicant or its designee shall provide evidence to the County of San Diego that all diesel-powered generators with engines greater than 750 horsepower used for rock crushing operations are equipped with Tier 4 Final engines.

**M-AQ-2 Blasting and Rock-Crushing Notification.** Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County of San Diego that the applicant or its designee has employed a construction relations officer who will address community concerns regarding on-site construction activity. The applicant shall provide public notification in the form of a visible sign containing the contact information of the construction relations officer, who will document complaints and concerns regarding on-site construction activity. The sign shall be placed in easily-accessible locations along Proctor Valley Road and noted on grading and improvement plans.

**M-AQ-3 Blasting and Rock-Crushing Dust Controls.** The following provisions shall be implemented to reduce emissions associated with blasting and rock-crushing activities:

- a. During blasting activities, the construction contractor shall implement all feasible engineering controls to control fugitive dust including exhaust ventilation, blasting cabinets and enclosures, vacuum blasters, drapes, water curtains or wet blasting.
- b. Watering methods, such as water sprays and water applications, also shall be implemented during blasting, rock crushing, cutting, chipping, sawing, or any activity that would release dust particles to reduce fugitive dust emissions.

During rock crushing transfer and conveyance activities, material shall be watered prior to entering the crusher.

Additionally, crushing activities shall not exceed an opacity limit of 20% (or Number 1 on the Ringelmann Chart) as averaged over a 3 minute period in any period of 60 consecutive minutes, in accordance with SDAPCD Rule 50, Visible Emissions. A qualified opacity observer shall monitor opacity from crushing activities once every 30 days while crushers are employed on site to ensure compliance with SDAPCD Rule 50.

Water sprayers, conveyor belt enclosures or other mechanisms also shall be employed to reduce fugitive dust generated during transfer and conveyance of crush material.

- M-AQ-4 Tier 4 Interim Construction Equipment.** Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County of San Diego (County) that for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Interim. An exemption from these requirements may be granted by the County in the event that the applicant documents that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment.<sup>2</sup> Before an exemption may be considered by the County, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the San Diego region.
- M-AQ-5 Construction Equipment Maintenance.** The primary contractor shall be responsible for ensuring that all construction equipment is properly tuned and maintained in accordance with manufacturer's specifications before and for the duration of construction.
- M-AQ-6 Use of Electrical-Powered Equipment.** Electrical hookups shall be provided on site for hand tools, such as saws, drills, and compressors, used for building construction to reduce the need for electric generators and other fuel-powered equipment. The use of electrical construction equipment shall be employed, where feasible.
- M-AQ-7 Best Available Control Technology.** Construction equipment shall be outfitted with best available control technology (BACT) devices certified by the California Air Resources Board. A copy of each unit's BACT documentation shall be provided to the County of San Diego at the time of mobilization of each applicable unit of equipment.
- M-AQ-8 Haul Trucks.** Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.

---

<sup>2</sup> For example, if a Tier 4 Interim piece of equipment is not reasonably available at the time of construction and a lower tier equipment is used instead (e.g., Tier 3), another piece of equipment could be upgraded from a Tier 4 Interim to a higher tier (i.e., Tier 4 Final) or replaced with an alternative-fueled (not diesel-fueled) equipment to offset the emissions associated with using a piece of equipment that does not meet Tier 4 Interim standards.

- M-AQ-9 Facilitate Use of Electrical Lawn and Garden Equipment.** Prior to the issuance of residential building permits, the applicant or its designee shall provide evidence to the County of San Diego that building design plans require that residential structures be equipped with outdoor electric outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.
- M-AQ-10 Low-VOC/Green Cleaning Product Educational Program.** Prior to the occupancy of any on-site development, the applicant or its designee shall provide evidence to the County of San Diego that the applicant/phase developer has developed a Green Cleaning Product and Paint education program to be made available at rental offices, leasing spaces, and/or on websites.

## Section 3. Approved Project Findings

### Section 3.1 Conformance to the Regional Air Quality Strategy

Regarding consistency with local air quality plans, the Approved Project would result in an equal to or less-intensive land use than currently allowed under the County's General Plan, which the San Diego Air Pollution Control District (SDAPCD) Regional Air Quality Strategy emissions forecast is based on. Because the Approved Project would contribute to local population and employment growth and associated vehicle miles traveled (VMT) in an amount anticipated for the Approved Project Area by the County's General Plan, the Approved Project's growth is accounted for in the state Implementation Plan and Regional Air Quality Strategy. Therefore, the Approved Project would be consistent with relevant air quality plans, and impacts would be less than significant.

### Section 3.2 Conformance to Federal and State Air Quality Standards

#### Construction Criteria Air Pollutant Emissions

Construction of the Approved Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, rock crushing, blasting, soil disturbance, and volatile organic compound [VOC] off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Approved Project construction was assumed to occur from 2019 to 2027. The analysis concluded that maximum daily construction emissions generated by the Approved Project would exceed the County's daily significance thresholds for VOCs, oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM<sub>10</sub>), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM<sub>2.5</sub>). Maximum daily construction emissions would not exceed the County's daily thresholds for sulfur oxides (SO<sub>x</sub>). Implementation of mitigation measures **M-AQ-1** through **M-AQ-8** would reduce emissions of PM<sub>10</sub> and PM<sub>2.5</sub> below the County's thresholds; however, mitigated emissions of VOC, NO<sub>x</sub>, and CO, would still exceed thresholds. Because VOCs, NO<sub>x</sub>, and CO emissions generated by the Approved Project would exceed the County's thresholds, potential Approved Project criteria air pollutant impacts during construction would be significant and unavoidable.

#### Operational Criteria Air Pollutant Emissions

Operation of the Approved Project would generate operational criteria air pollutants from area sources (consumer product use, architectural coatings, and landscape maintenance equipment), energy sources (natural gas), and

## Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment

---

mobile sources (vehicles). An operational year of 2028 was used in the analysis based on the anticipated construction schedule. Maximum operational emissions would exceed the County's operational significance thresholds for VOC and PM<sub>10</sub>; thresholds for NO<sub>x</sub>, CO, SO<sub>x</sub>, and PM<sub>2.5</sub> would not be exceeded.

The greatest source of VOC emissions is use of consumer products, and the second greatest source of VOC emissions is architectural coatings. Consistent with SDAPCD Rule 67.0.1, it is anticipated that, for both residential and non-residential land uses, interior paint would not exceed flat coating limits (50 grams per liter [g/L] VOC), exterior paint would not exceed non-flat coating limits (100 g/L VOC), and a small portion of exterior paint and finishes (trim and other minor finishes) would not exceed non-flat high-gloss coatings limits (150 g/L VOC). Although the majority (i.e., 75%) of the surface area painted is assumed to be interior, which would meet or be less than the 50 g/L VOC content flat coating limit, it was conservatively assumed in the California Emissions Estimator Model (CalEEMod) that all residential and non-residential (interior and exterior) architectural coating would be 150 g/L VOC. For parking lot land uses, 250 g/L VOC was assumed consistent with CalEEMod default VOC rates. The Approved Project includes mitigation to encourage the use of low-VOC consumer products,<sup>3</sup> which are chemically formulated products used by household and institutional consumers; however, use of low-VOC content consumer products was not quantitatively assumed because of enforceability challenges.

Mobile sources are the primary source of PM<sub>10</sub> emissions. Implementation of the Approved Project's PDF-TR-1, Transportation Demand Management Program, would reduce VMT by 4.7% in Village 14 and 2.0% in Planning Areas 16/19, with an overall reduction of 4.3% in total VMT; therefore, the Proposed Project Amendment is anticipated to achieve a minimum of 4.3% reduction in VMT. However, a total VMT reduction of 4.6% was estimated for the EIR Land Exchange Alternative and since the Proposed Project Amendment was assumed to be similar to the EIR Land Exchange Alternative, a VMT reduction of up to 4.6% is possible, which would reduce all vehicle emissions, including PM<sub>10</sub>. No additional feasible mitigation measures were identified that would reduce operational PM<sub>10</sub> emissions below the threshold. Because operational emissions of VOCs and PM<sub>10</sub> cannot be mitigated, the Approved Project's operational emissions would remain significant and unavoidable.

### Cumulative Impacts

Cumulative emissions were found to be significant and unavoidable when considering the Approved Project in combination with other existing and foreseeable future projects in the Approved Project's vicinity. Specifically, the Approved Project would result in significant cumulative construction impacts associated with VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub> emissions,<sup>4</sup> and significant cumulative operational impacts associated with VOC and PM<sub>10</sub> emissions. Because the Approved Project would generate NO<sub>x</sub>, VOC, CO, and PM<sub>10</sub> emissions that exceed the County's thresholds after implementation of mitigation, and other cumulative projects would have the potential to be constructed and operated in the Approved Project's vicinity, cumulative construction and operational

---

<sup>3</sup> Consumer products include detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products.

<sup>4</sup> Project-generated construction emissions of PM<sub>10</sub> and PM<sub>2.5</sub> would be reduced below the County's threshold with implementation of mitigation (i.e., mitigation measures **M-AQ-1** through **M-AQ-8**). Project-generated emissions of PM<sub>10</sub> would remain near the maximum daily thresholds, and therefore due to the uncertain nature of additional potential projects in the region, cumulative emissions were determined to have a potentially cumulative impact.

emissions could further exacerbate emissions. As such, the Approved Project would result in a cumulatively considerable net increase of criteria pollutants that is significant and unavoidable.

### Section 3.3 Impacts to Sensitive Receptors

#### Carbon Monoxide Hotspots

Construction traffic in 2024, which represents the highest level of construction-related traffic for the Approved Project, would not result in traffic volumes that would cause a CO hotspot; therefore, impacts related to CO near sensitive receptors during construction would be less than significant.

Similarly, operation of the Approved Project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO California Ambient Air Quality Standards (CAAQS) would be equaled or exceeded at any of the studied intersections, potential operational CO hotspot impacts would be less than significant.

#### Toxic Air Contaminants

Impacts related to cancer risk and chronic hazard from diesel particulate matter, which is a toxic air contaminant (TAC), would be below the County's thresholds during construction activities; therefore, impacts would be less than significant.

No long-term sources of TAC emissions are anticipated during operation of the Approved Project because the Approved Project would only include residential units, commercial land uses, a school, parks, and Preserve land; the Approved Project would not include heavy industrial uses or other land uses typically associated with stationary sources and TACs. Additionally, the Approved Project would not be located next to a major source of TAC or high-volume roadway. As such, the Approved Project would not result in substantial TAC emissions that may affect nearby receptors, nor would the Approved Project be exposed to nearby sources of TACs. Impacts would be less than significant.

### Section 3.4 Odor Impacts

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and from excavated sediment. These odors would disperse rapidly from the Approved Project Area and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

The Approved Project would not include land uses that are known to generate odors, such as wastewater treatment plants, landfills, or other industrial sources. Although odor impacts are unlikely, the Proposed Project Amendment would be required to comply with the County's odor policies enforced by the SDAPCD, including Rule 51, in the event a nuisance complaint occurs, and County Zoning Code Section 6318, which prohibits nuisance odors and identifies enforcement measures to reduce odor impacts to nearby receptors. Therefore, impacts associated with objectionable odors would be less than significant.

## Section 3.5 Environmental Impact Report Land Exchange Alternative

The EIR Land Exchange Alternative would not eliminate exceedances of the VOC, NO<sub>x</sub>, or CO regulatory threshold (Tables 4-6A and 4-6B). This EIR Land Exchange Alternative would result in greater maximum daily construction emissions of NO<sub>x</sub> and CO compared to the Approved Project. Similarly, the EIR Land Exchange Alternative would increase operational impacts of VOCs and PM<sub>10</sub> compared to the Approved Project due to the increased residential unit count and associated operation of the EIR Land Exchange Alternative project (Table 4-7 in the Final EIR). For these reasons, the EIR Land Exchange Alternative would cause a cumulatively considerable contribution to cumulative net increases of criteria pollutants.

Impacts related to toxic air contaminants and CO hotspots would be less than significant under the EIR Land Exchange Alternative, similar to the Approved Project (Tables 4-8A through 4-10 in the Final EIR).

Under both the Approved Project and EIR Land Exchange Alternative, potential odors produced during construction would disperse rapidly, and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be similar under the Approved Project and EIR Land Exchange Alternative. Similar to the Approved Project, the EIR Land Exchange Alternative would not include any land uses that are known to generate odors, such as wastewater treatment plants, landfills, or other industrial sources. Therefore, impacts associated with objectionable odors would be similar under the Approved Project and EIR Land Exchange Alternative.

Overall, the EIR Land Exchange Alternative would result in greater emissions of criteria pollutants, and, therefore, would result in greater impacts than the Approved Project because of increased construction and operational emissions. Air quality impacts would remain significant and unavoidable under this alternative.

## Section 4. Proposed Project Amendment Impacts

### Section 4.1 Conformance to the Regional Air Quality Strategy

Like the Approved Project, the Proposed Project Amendment is consistent with the County's General Plan land use designations and the County's existing zoning designations. More specifically, the Otay Ranch GDP/SRP allows for a total of 2,133 homes within this portion of the Otay Ranch planned community. The Proposed Project Amendment would include a maximum of 1,266 residential units. The Otay Ranch GDP/SRP is an implementation document of the County General Plan, and is therefore consistent with the General Plan, County Zoning Code, and associated regional growth assumptions. Therefore, the Proposed Project Amendment would not result in population growth that is greater than that expected in the County's General Plan or the Otay Ranch GDP/SRP (City of Chula Vista and County of San Diego 1993), and is anticipated to result in less emissions than anticipated in the 2016 Regional Air Quality Strategy. The Proposed Project Amendment, similar to the Approved Project, is considered accounted for in the Regional Air Quality Strategy. As such, the Proposed Project Amendment would not conflict with or obstruct implementation of local air quality plans. Impacts would be less than significant, and the level of impact is anticipated to be similar to that reported in the Approved Project Final EIR.

## Section 4.2 Conformance to Federal and State Air Quality Standards

### Construction Emissions

A comparison of the key construction characteristics that are factors in qualitatively discussing construction emissions, including total development, area graded, and blasting assumptions, was conducted between the Proposed Project Amendment and the Approved Project to qualitatively evaluate emissions associated with implementation of the Proposed Project Amendment.

Construction of the Proposed Project Amendment would result in the temporary addition of pollutants to the local airshed. VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions would be generated from operation of off-road construction equipment; haul trucks, vendor trucks, and worker vehicles; and a diesel engine generator powering the rock-crushing equipment. VOC off-gassing would be generated from application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement. PM<sub>10</sub> and PM<sub>2.5</sub> emissions would be generated from exposure of earth surfaces to wind from direct disturbance and movement of soil, rock-crushing activities, and blasting operations. CO, NO<sub>x</sub>, and SO<sub>x</sub> emissions would be generated from blasting operations using ammonium nitrate/fuel oil-based blend explosives.

The Proposed Project Amendment proposes 1,266 homes, which is more than the Approved Project (an increase of 147 units) and less than the EIR Land Exchange Alternative (a reduction of 264 units) (see Table 4). While the Proposed Project Amendment would result in 147 more homes than the Approved Project, the total square footage of vertical development is anticipated to be similar to the Approved Project because the Proposed Project Amendment would consolidate development on smaller lots that have been designed to include more homes that would range between approximately 2,000 to 2,500 square feet. In comparison, Planning Area 16 in the Approved Project includes homes that average approximately 4,000 square feet (the Approved Project includes 125 such "estate" homes, whereas the Proposed Project Amendment would include 13 estate homes). Based on the vertical development characteristics, the Proposed Project Amendment is anticipated to involve similar vertical construction activity compared to the Approved Project, including similar phasing, equipment, workers, and vendor truck trips. The Proposed Project Amendment total vertical development square footage would increase by 1.55% over the Approved Project, which would not substantially change the construction assumptions or construction duration/phasing.

A comparison of the Proposed Project Amendment, Approved Project, and EIR Land Exchange Alternative square footage is provided in Table 5.

**Table 5. Proposed Project Amendment Building Square Footage Compared to Approved Project and Environmental Impact Report Land Exchange Alternative**

Building Square Footage	Proposed Project Amendment	Approved Project	Environmental Impact Report Land Exchange Alternative
<i>Total Residential</i>	3,961,600	3,904,214	4,704,470
<i>Total Non-Residential</i>	88,340	83,760	102,180
<b>Total Square Feet</b>	<b>4,049,940</b>	<b>3,987,974</b>	<b>4,806,650</b>

Similar to the Approved Project, the Proposed Project Amendment's cut-and-fill quantities would be balanced on site, and no external soil export would be required. The Proposed Project Amendment would grade approximately 522 acres, which is less than the approximately 599 acres required for the Approved Project (see Table 4). Grading would balance within each subset area, and hauling would not be required between subset areas. However, to present a conservative analysis, the use of haul trucks to transport a small portion (i.e., 2%) of the excavated soil within each subset area was assumed in the Approved Project Final EIR and is assumed here for purposes of the Proposed Project Amendment. Approximately 8,943,005 cubic yards of cut and fill would occur within the Proposed Project Amendment area, which is less than the 8,948,734 cubic yards that would be required for the Approved Project. Therefore, the Proposed Project Amendment would result in less cubic yards of grading than the Approved Project. Accordingly, the Proposed Project Amendment is anticipated to result in less earthwork activity compared to the Approved Project.

Blasting operations and rock crushing would also be required for site preparation for the Proposed Project Amendment, similar to the Approved Project. The Proposed Project Amendment would blast approximately 1,729,498 cubic yards of rock, which is 24.7% less than the quantity required for the Approved Project of 2,298,117 cubic yards. All blasting activity would comply with Section 96.1.5601.2 of the County of San Diego 2017 Consolidated Fire Code. The Approved Project assumed a maximum of one blast would occur per day. The maximum daily emissions associated with the Proposed Project Amendment blasting operations is anticipated to be similar to the Approved Project; however, the total emissions associated with Proposed Project Amendment blasting operations would be less. Regarding rock crushing activities, the Proposed Project Amendment is anticipated to result in less construction activities as compared to the Approved Project. Thus, it is anticipated that total CO, NO<sub>x</sub>, SO<sub>x</sub>, and PM<sub>10</sub>, and PM<sub>2.5</sub> emissions associated with blasting would reduce, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions associating with rock-crushing activities would reduce, and VOC, CO, NO<sub>x</sub>, and PM<sub>10</sub>, and PM<sub>2.5</sub> emissions associated with the rock-crushing diesel generator would reduce as compared to the Approved Project.

Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The Proposed Project Amendment would implement measure PDF-AQ-1 (Fugitive Dust Control) to minimize fugitive dust and comply with County Ordinance 87.428 (Grading Ordinance) and SDAPCD Rule 55 (Fugitive Dust Control), which include watering, application of surfactants, shrouding, control of vehicle speeds, paving of access roads, and dust control track-out/carry-out. Furthermore, as required by the Fire Protection Plan, a 30-foot buffer would be implemented on either side of Proctor Valley Road. This setback would protect plants from fugitive dust.

Based on the above considerations, overall construction emissions resulting from implementation of the Proposed Project Amendment are expected to be similar to the Approved Project construction emissions. Because the Proposed Project Amendment is anticipated to result in less grading, blasting, and rock crushing, and a similar amount of vertical construction activities compared to the Approved Project, construction of the Proposed Project Amendment could potentially also result in emissions that would exceed the County thresholds for VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub>. As such, mitigation measures **M-AQ-1** through **M-AQ-8**, listed in Section 2.2, from the Approved Project Final EIR would be implemented as part of the Proposed Project Amendment. Mitigation measures **M-AQ-1** through **M-AQ-8** would reduce Proposed Project Amendment construction-generated emissions to the extent feasible. Ultimately, the Proposed Project Amendment would result in similar emissions to those reported for the Approved Project in its Final EIR; therefore, impacts would remain significant and unavoidable, and the level of impact is anticipated to be similar to that of the Approved Project.

## Operational Emissions

Similar to the Approved Project and the EIR Land Exchange Alternative, operation of the Proposed Project Amendment would generate VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions from area sources, energy sources, and mobile sources. The operational emissions were estimated using the same methodology as detailed in Section 2.3.3.2, Conformance to Federal and State Air Quality Standards, Operational Emissions, in the Final EIR; however, methodology specific to the Proposed Project Amendment is detailed below. CalEEMod Version 2016.3.2 was used to estimate operational emissions.

### Area Sources

CalEEMod Version 2016.3.2 was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment.<sup>5</sup> Area source emissions were estimated using the same assumptions summarized under Operational Emissions in Section 2.3.3.2 of the Final EIR. Consumer product VOC emissions are estimated in CalEEMod based on the floor area of residential and non-residential buildings, and the default factor of pounds of VOC per building square foot per day. Architectural coating VOC emissions represent an operational emissions source as a result of reapplication of paint (long-term building maintenance). The CalEEMod default assumption that all land use buildings would be repainted at a rate of 10% of area per year (i.e., reapplication rate of 10%) was used. To reflect compliance with SDAPCD Rule 67.0.1, it was conservatively assumed that all residential and non-residential (interior and exterior) architectural coating would be 150 g/L VOC.<sup>6</sup> Emissions associated with landscape equipment<sup>7</sup> use were estimated based on CalEEMod default values (grams per residential dwelling unit per day and grams per square foot of non-residential building space per day), and number of days when landscape maintenance would generally be performed.

### Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for greenhouse gases in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

For the residential land uses, specific energy use data for the Proposed Project Amendment, based on the EIR Land Exchange Alternative energy consumption analyses, were used in place of CalEEMod default values, since the Proposed Project Amendment would achieve Zero Net Energy residential design standards per PDF-AQ/GHG-2. To

---

<sup>5</sup> Based on information provided by the applicant, each single-family home was assumed to have a natural gas fireplace, courtyard homes were assumed to have no fireplaces, and no woodstoves would be installed. The natural gas consumption associated with the fireplaces was assumed to be included in the heating demand estimate used in the Building Analysis (ConSol 2017a), which is evaluated in the energy module in CalEEMod. Fireplaces were not included separately in the CalEEMod area source calculations to avoid double counting.

<sup>6</sup> SDAPCD Rule 67.0.1 identifies VOC limits for various specialty coatings that exceed 150 grams per liter (g/L) VOC, but the Proposed Project's primarily residential development is not anticipated to require a substantial amount of specialty coatings. In addition, many of the specialty coating categories have limits under 150 g/L, including driveway sealers (50 g/L VOC); floor coatings (100 g/L VOC); and primers, sealers, and undercoaters (100 g/L VOC).

<sup>7</sup> Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers.

## Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment

calculate the total single-family and estate residential building energy input for the Proposed Project Amendment (i.e., natural gas use from the residential development's regulated and unregulated loads), specific energy use data prepared by ConSol for the Approved Project was used to model the Proposed Project Amendment energy use (ConSol 2017b), which were calculated using the California Energy Commission's public-domain compliance software known as CBECC-Res. The EIR Land Exchange Alternative energy use by residential unit was used for the multi-family residential units for the Proposed Project Amendment (ConSol 2017a).

Further, in accordance with PDF-AQ/GHG-3, non-residential uses would have 10% greater building energy efficiency than required by the 2016 state energy efficiency standards in Title 24.

### Mobile Sources

Mobile sources for the Proposed Project Amendment would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the proposed land uses similar to the Approved Project and the EIR Land Exchange Alternative.

Trip rates from the Proposed Project Amendment are shown in Table 6. As shown therein, the Proposed Project Amendment would result in 12,962 average daily trips. Table 7 compares traffic from the Proposed Project Amendment to the Approved Project and EIR Land Exchange Alternative projects. Overall, the Proposed Project Amendment would result in 195 more trips than the Approved Project and approximately 955 fewer trips than the EIR Land Exchange Alternative Project.

**Table 6. Proposed Project Amendment Average Daily Trips**

Land Use	Units	Type	Trip Rate	ADT
Estate	13	DU	12/DU	156
Single Family Residential	1,103	DU	10/DU	11,030
Multi-Family Residential	150	DU	8/DU	1,200
Mixed Use Commercial	10	KSF	110/KSF	1,100
Elementary School	9.9	Acre	90/Acre	891
Neighborhood Park	11	Acre	5/Acre	55
Community Purpose Facility	9.5	Acre	30/Acre	285
Fire Station	3	Staff	5.3/Staff	16
Sub-Total				14,729
Internal Capture @ 12%				-1,767
Total				12,962

Notes: ADT = average daily trips; DU = dwelling units; KSF = thousand square feet.

**Table 7. Proposed Project Amendment Average Daily Trips Compared to Approved Project and EIR Land Exchange Alternative Average Daily Trips**

Land Use	Trip Rate	ADT		
		Proposed Project Amendment	Approved Project	EIR Land Exchange Alternative
Estate	12/DU	156	1,500	11,240

**Table 7. Proposed Project Amendment Average Daily Trips Compared to Approved Project and EIR Land Exchange Alternative Average Daily Trips**

Land Use	Trip Rate	ADT		
		Proposed Project Amendment	Approved Project	EIR Land Exchange Alternative
Single Family Residential	10/DU	11,030	9,940	270
Multi-Family Residential	8/DU	1,200	0	552
Mixed Use Commercial	110/KSF	1,100	1,100	1,650
Retirement Community	4/DU	0	0	1,132
Elementary School	90/Acre	891	0	720
Neighborhood Park	5/Acre	55	76	67
Community Purpose Facility	30/Acre	285	135	168
Fire Station	5.3/Staff	16	16	16
<i>Sub-Total</i>		<i>14,729</i>	<i>12,767</i>	<i>15,815</i>
<i>Internal Capture @ 12%</i>		<i>-1,767</i>	<i>0</i>	<i>-1,898</i>
<b>Total</b>		<b>12,962</b>	<b>12,767</b>	<b>13,917</b>
<b>Difference</b>		<b>-</b>	<b>195</b>	<b>(955)</b>

**Notes:** ADT = average daily trips; DU = dwelling units; KSF = thousand square feet.

The calculation of vehicle emissions generated by the Proposed Project Amendment was based on multiple variables, including trip rate, trip length, trip purpose, and trip type, which are all factors in estimating VMT. The Proposed Project Amendment's anticipated trip generation was based on the Proposed Project Amendment's Transportation Impact Study prepared by Chen Ryan (2019). The Approved Project was determined to result in an overall 4.3% reduction in total VMT; therefore, the Proposed Project Amendment is anticipated to achieve a minimum of 4.3% reduction in VMT. However, a total VMT reduction of 4.6% was estimated for the EIR Land Exchange Alternative and since the Proposed Project Amendment was assumed to be similar to the EIR Land Exchange Alternative, a VMT reduction of up to 4.6% is possible. Default trip generation rates and trip lengths included in CalEEMod for each analyzed Proposed Project Amendment land use in the build-out scenario were adjusted to match the average weekday trip rates (Chen Ryan 2019). Because the Proposed Project Amendment would generate a similar land use mix as the EIR Land Exchange Alternative, the assumed average trip length for the EIR Land Exchange Alternative was similarly assumed for the Proposed Project Amendment. Accordingly, the Proposed Project Amendment trip length in CalEEMod for all land uses was adjusted to the EIR Land Exchange Alternative trip length of 9.71 miles.<sup>8</sup>

<sup>8</sup> VMT was estimated for the Approved Project and the EIR Land Exchange Alternative by Chen Ryan in the Approved Project Final EIR. The EIR Land Exchange Alternative had a higher estimated VMT per trip compared to the Approved Project. Therefore, it was determined the EIR Land Exchange Alternative VMT was more conservative to use as the basis for the Proposed Project Amendment VMT. The Proposed Project Amendment VMT was estimated using Proposed Project Amendment-specific trip rates (Chen Ryan 2019) and the average trip length from the EIR Land Exchange Alternative (Chen Ryan 2017).

Memorandum

Subject: Air Quality Analysis Technical Memorandum for the Otay Ranch Village 14 and Planning Area 16/19  
Proposed Project Amendment

PDF-AQ/GHG-2 (Zero Net Energy Development), PDF-AQ/GHG-4 (Energy Star Appliances), and PDF-TR-1 (TDM Program) were quantitatively included in the Proposed Project Amendment and Approved Project's estimated operational emissions. Table 8 presents the maximum daily emissions associated with operation of the Proposed Project Amendment and Approved Project in 2028 at build-out. The values shown are the maximum summer and winter daily emissions results from CalEEMod. Complete details of the emissions calculations are provided in Attachment A of this memorandum and Appendix 2.3-1 of the Final EIR (Section 3.3, Operational Emissions Methodology, and Section 4.2.2, Operational Impacts). The estimated operational emissions from the Proposed Project Amendment compared to the Approved Project are summarized in Table 8.

**Table 8. Proposed Project Amendment Estimated Maximum Daily Operational Emissions - Unmitigated**

Emission Source	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Pounds per Day					
Summer						
Area	74.11	1.20	104.38	<0.01	0.58	0.58
Energy	0.91	7.85	3.95	0.05	0.63	0.63
Mobile	18.84	74.03	240.12	0.99	105.85	28.72
Total	93.86	83.08	348.45	1.04	107.06	29.93
Winter						
Area	74.11	1.20	104.38	<0.01	0.58	0.58
Energy	0.91	7.85	3.95	0.05	0.63	0.63
Mobile	18.23	76.07	232.06	0.94	105.85	28.72
Total	93.24	85.12	340.40	0.99	107.10	29.93
Maximum Daily Emissions	93.86	85.12	348.45	1.04	107.10	29.93
Pollutant Threshold	75	250	550	250	100	55
Threshold Exceeded?	Yes	No	No	No	Yes	No

**Notes:**

VOC = volatile organic compound; NO<sub>x</sub> = oxides of nitrogen; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides; PM<sub>10</sub> = coarse particulate matter; PM<sub>2.5</sub> = fine particulate matter; <0.01 = emissions reported are less than 0.01.

Emissions reflect operational year 2028.

See Attachment A of this memorandum and Appendix A of Appendix 2.3.1 of the Final EIR for complete results.

Estimated emissions include compliance with regulatory measures (REG-AQ-5) and implementation of PDFs (PDF-AQ/GHG-2, PDF-AQ/GHG-3, PDF-AQ/GHG-4, and PDF-TR-1).

For comparison, the Approved Project was determined to result in significant and unavoidable impacts for VOC and PM<sub>10</sub> and less-than-significant impacts for NO<sub>x</sub>, CO, SO<sub>x</sub>, and PM<sub>2.5</sub> (see Appendix 2.3.1 of the Final EIR for calculation details). In summary, the Proposed Project Amendment would exceed the County's thresholds for VOC and PM<sub>10</sub>, similar to the Approved Project. Therefore, impacts would be potentially significant, and the level of impact is anticipated to be similar to the level identified in the Approved Project Final EIR.

The Proposed Project Amendment would implement **M-AQ-9** and **M-AQ-10** as detailed in Section 2.3 of this memorandum and Appendix 2.3.1 of the Final EIR to reduce VOC operational emissions (see also Section 2.2 above

for those measures). Similar to the Approved Project, although **M-AQ-9** and **M-AQ-10** would effectively reduce emissions, reductions associated with these mitigation measures are not readily quantifiable. As such, there are no mitigated emissions presented herein. Following implementation of the mitigation measures listed above, in addition to the Proposed Project Amendment's PDFs, Proposed Project Amendment operational emissions of VOCs and PM<sub>10</sub> would remain significant and unavoidable, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

## Section 4.3 Impacts to Sensitive Receptors

### Construction

#### *Carbon Monoxide Hotspots*

The Proposed Project Amendment construction trip generation and distribution for workers and delivery trucks is expected to be similar to the Approved Project. Earthwork associated with construction of the Proposed Project Amendment would continue to be balanced on site as with the Approved Project; therefore, there would no additional off-site import or export of soil and associated haul truck trips. Further, neither construction material transport activities nor construction workers would generate traffic during the peak commute hours (both AM and PM), since deliveries and pick-ups would be planned to occur during off-peak hours, and construction workers would be scheduled to arrive before 7:00 a.m. and leave by 3:30 p.m. Therefore, no intersection peak-hour analysis is necessary for assessing potential construction-related traffic impacts. Additionally, the area surrounding the Proposed Project Amendment is primarily rural, the population is low, and local roads are typically traversed by local residents. For these reasons, construction-related traffic is not expected to impact local intersections or cause an exceedance of the CO CAAQS; therefore, impacts would be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

#### *Toxic Air Contaminants – Diesel Particulate Matter*

Construction of the Proposed Project Amendment would result in similar construction-related activities, including reduced total graded area, blasting, and rock crushing activities, compared to the Approved Project. The Proposed Project Amendment would reduce grading operations by 5,729 cubic yards of cut and fill and blast 24.7% less cubic yards of rock; therefore, the Proposed Project Amendment would result in potential reduction in exhaust PM<sub>10</sub> from off-road equipment operation, haul truck trips, blasting operations, and diesel generator operations associated with rock-crushing activities. Because the Proposed Project Amendment is anticipated to involve similar construction activities compared to the Approved Project, construction of the Proposed Project Amendment is anticipated to result in similar construction health risk results as estimated for the Approved Project. Therefore, the unmitigated cancer risk and chronic health risk associated with unmitigated construction impacts from the Proposed Project Amendment are also anticipated to be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

Mitigation measures for criteria pollutants (i.e., **M-AQ-1**, **M-AQ-2**, **M-AQ-4**, **M-AQ-5**, **M-AQ-6**, **M-AQ-7**, and **M-AQ-8**) also apply to reducing TAC emissions. Therefore, although no mitigation is required, implementation of mitigation measures would further reduce health risk impacts to on-site and off-site residences. Therefore, the mitigated

construction impacts for the Proposed Project Amendment would also be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

#### *Valley Fever Exposure*

As discussed in Section 2.3.1 in Appendix 4.1-3 of the Final EIR, Valley Fever is not highly endemic in the County, and within the County, the incidence rate in the Proposed Project Amendment Area is below the County average and the statewide average. Construction of the Proposed Project Amendment would comply with SDAPCD Rule 55, which limits the amount of fugitive dust generated during construction. Strategies the Proposed Project Amendment would implement to comply with SDAPCD Rule 55 and control dust include watering three times per day and limiting speed on unpaved roads to 15 miles per hour. Based on the low incidence rate of Coccidioidomycosis in the Proposed Project Amendment and in greater San Diego County, and the Proposed Project Amendment's implementation of dust control strategies, it is not anticipated that earthmoving activities during Proposed Project Amendment construction would result in exposure of nearby sensitive receptors to Valley Fever. Therefore, the Proposed Project would have a less-than-significant impact with respect to Valley Fever exposure to sensitive receptors, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

#### **Operational**

#### *Carbon Monoxide Hotspots*

Quantitative CO hotspot assessments were prepared for the Approved Project and the EIR Land Exchange Alternative, and in both analyses it was determined that the maximum CO concentrations predicted for the 1-hour and 8-hour averaging periods at the intersections studied would be below the 1-hour and 8-hour CAAQS. Specifically, the Approved Project would result in a maximum 1-hour CO concentration of 2.6 parts per million (ppm) and the EIR Land Exchange Alternative would result in a maximum 1-hour CO concentration of 2.3 ppm, while the 1-hour CAAQS is 20 ppm. In addition, the Approved Project would result in a maximum 8-hour CO concentration of 1.81 ppm, and the EIR Land Exchange Alternative would result in a maximum 8-hour CO concentration of 1.6 ppm, while the 8-hour CAAQS is 9 ppm. Because the Proposed Project Amendment would result in similar vehicle volumes at studied intersections and the estimated maximum 1-hour and 8-hour CO concentrations for the Approved Project and EIR Land Exchange Alternative were well below the relevant CAAQS, it is also anticipated that the Proposed Project Amendment would not exceed the 1-hour and 8-hour CAAQS.<sup>9</sup> Therefore, the maximum CO concentrations predicted for the 1-hour and 8-hour averaging periods at the intersections studied in the Approved Project Final EIR

---

<sup>9</sup> For additional context, the South Coast Air Quality Management District (SCAQMD) conducted CO modeling for the 2003 Air Quality Management Plan (SCAQMD 2003) for the four worst-case intersections in the South Coast Air Basin and peak modeled CO concentrations were below the relevant CAAQS. At the time the 2003 Air Quality Management Plan was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day. Using CO emission factors for 2002, the peak modeled CO 1-hour and 8-hour concentrations for the intersection of Wilshire Boulevard and Veteran Avenue was estimated to be 4.6 ppm and 3.4 ppm, respectively, which are below the CAAQS of 20 ppm and 9 ppm, respectively. The Proposed Project Amendment plus cumulative traffic would not result in intersection vehicle volumes over 100,000 vehicles per day and therefore, a CO hotspot is not anticipated to occur.

are expected to be representative of the maximum CO concentrations that would potentially result from implementation of the Proposed Project Amendment.

In summary, CO hotspot impacts would be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

#### *Toxic Air Contaminants – Diesel Particulate Matter*

No residual TAC emissions or corresponding cancer risk are anticipated after construction, nor are any long-term sources of TAC emissions anticipated during operation of the Proposed Project Amendment, because the Proposed Project Amendment would include residential units, commercial land uses, a school, parks, and Otay Ranch Resource Management Plan/County of San Diego MSCP Preserve land, and would not include potentially hazardous land uses such as heavy industrial activities. As such, impacts from the exposure of Proposed Project Amendment TAC emissions to sensitive receptors would be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

Additionally, implementation of the Proposed Project Amendment would not generate any major operational sources of TAC or diesel particulate matter, nor would the Proposed Project Amendment be located next to a major stationary TAC source or high-volume roadway. As such, the Proposed Project Amendment would not result in substantial TAC emissions that may affect nearby receptors, nor would the Proposed Project Amendment be exposed to nearby sources of TACs; therefore, the impact would be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

## Section 4.4 Odor Impacts

### **Construction**

On a daily basis, the construction activities associated with development of the Proposed Project Amendment, including off-road diesel equipment operation and application of asphalt pavement, would be the same intensity as the Approved Project. Construction of the Proposed Project Amendment components would result in similar construction activities as the Approved Project; therefore, emission of diesel fumes and other odors typically associated with construction activities of the Proposed Project Amendment would result in similar impacts as the Approved Project. The Proposed Project Amendment would also be required to comply with the County of San Diego's odor policies enforced by the SDAPCD, including Rule 51 and County Zoning Code Section 6318, which prohibit nuisance odors and identify enforcement measures to reduce odor impacts to nearby receptors. Any odors associated with construction activities would continue to be temporary and would cease upon completion; therefore, odor impacts from the Proposed Project Amendment would be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

### **Operational**

Similar to the Approved Project, the Proposed Project Amendment would not include land uses that would generate objectionable odors, and Proposed Project Amendment land uses would not attract people to an area where there would be a potential for exposure to objectionable odors.

The Proposed Project Amendment would also operate on-site sewer lift stations that could potentially generate odors, similar to the Approved Project. However, these lift stations would be subject to odor control during operation and maintenance. Odor is regulated as a public nuisance, and the control of odor is enforced through complaints made to the SDAPCD. Odor complaints are investigated by the SDAPCD, which coordinates with the entity related to the odor source if it is determined that there is a violation of California Health and Safety Code Section 41700 and there is a need to rectify the situation. Similar to the Approved Project, each pump station would be outfitted with an odor-control slab during construction of the initial lift station. These slabs include power and a conduit for odor control chemicals so that an odor control tank can easily be added in the future if odors become an issue (Nielson, pers. comm. 2017). If a tank is added as a result of a confirmed violation of California Health and Safety Code Section 41700 through the SDAPCD process, the odor control tank uses controlled chemicals that are slowly dropped into the wet well to prevent the formation of odors. Because odor-control requirements would be incorporated into the design, operation, and maintenance of the sewer lift stations, the stations would not subject nearby sensitive receptors to substantial odor emissions.

As during construction, the Proposed Project Amendment would be required to comply with the County odor policies enforced by the SDAPCD, including SDAPCD Rule 51 and County Zoning Code Section 6318, which prohibit nuisance odors and identify enforcement measures to reduce odor impacts to nearby receptors; therefore, impacts would be less than significant, and the level of impact is anticipated to be similar to that reported for the Approved Project in the Final EIR.

## Section 5. Certified Environmental Impact Report Mitigation Measures and Project Design Features

Table 9 summarizes the PDFs and mitigation measures from the Approved Project's Air Quality Technical Report and identifies mitigation measures that would apply to the Proposed Project Amendment. Note that **Impacts AQ-1, AQ-2, AQ-CUM-1, and AQ-CUM-2**, consistent with the Approved Project and the EIR Land Exchange Alternative, remain significant and unavoidable impacts for the Proposed Project Amendment.

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p><b>Impact AQ-1.</b> The Approved Project would implement <b>PDF-AQ-1</b> and <b>PDF-AQ-2</b>. The Approved Project's maximum daily construction emissions would potentially exceed the County's emissions thresholds for VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. The Approved Project would implement <b>M-AQ-1</b> through <b>M-AQ-8</b>; however, not all reductions would be quantifiable, so emissions are overestimated and emission would be further reduced on a daily basis, but not a level below significance. Impacts would remain significant and unavoidable.</p> <p><b>PDF-AQ-1</b> Fugitive Dust Control. The Proposed Project Amendment shall implement the following measures to minimize fugitive dust (PM<sub>10</sub> and PM<sub>2.5</sub>), comply with County Code Section 87.428 (Grading Ordinance), and comply with San Diego Air Pollution Control District (SDAPCD) Rule 55 (Fugitive Dust Control):</p> <ol style="list-style-type: none"> <li>Water or another SDAPCD-approved dust control non-toxic agent shall be used on the grading areas at least three times daily.</li> <li>All main roadways shall be constructed and paved as early as possible in the construction process.</li> <li>Building pads shall be finalized as soon as possible following site preparation and grading activities.</li> <li>Grading areas shall be stabilized as quickly as possible.</li> <li>Chemical stabilizer shall be applied, a gravel pad shall be installed, or the last 100 feet of internal travel path within the construction site shall be paved prior to public road entry and for all haul roads.</li> </ol>	<p>The EIR Land Exchange Alternative as described in the Approved Project would implement <b>PDF-AQ-1</b> and <b>PDF-AQ-2</b>. The EIR Land Exchange Alternative's maximum daily construction emissions would potentially exceed the County's emissions thresholds for VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub>. The EIR Land Exchange Alternative would implement <b>M-AQ-1</b> through <b>M-AQ-8</b>; however, not all reductions would be quantifiable, so emissions are overestimated and emission would be further reduced on a daily basis, but not a level below significance. Impacts would remain significant and unavoidable.</p>	<p>The Proposed Project Amendment would implement <b>PDF-AQ-1</b> and <b>PDF-AQ-2</b>. The Proposed Project Amendment could potentially exceed the County's emissions thresholds for VOC, NO<sub>x</sub>, CO, and PM<sub>10</sub>. The Proposed Project Amendment would implement <b>M-AQ-1</b> through <b>M-AQ-8</b>; however, not all reductions would be quantifiable, so emissions are overestimated and emission would be further reduced on a daily basis, but not a level below significance. Impacts would remain significant and unavoidable.</p>	<p>Similar to the Approved Project, the Proposed Project Amendment's cut-and-fill quantities would be balanced on site, and no external soil export would be required. The Proposed Project Amendment is anticipated to result in less earthwork activity compared to the Approved Project. Regarding blasting and rock crushing activities, the Proposed Project Amendment is anticipated to result in less construction activities as compared to the Approved Project. The Proposed Project Amendment construction emissions are expected to be similar to the Approved Project construction emissions and less than the EIR Land Exchange Alternative, but would remain significant and unavoidable.</p>

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p>f. Wheel washers shall be installed adjacent to the apron indicated in (c) for tire inspection and washing prior to vehicle entry on public roads.</p> <p>g. Visible track-out into traveled public streets shall be removed with the use of sweepers, water trucks, or similar method within 30 minutes of occurrence.</p> <p>h. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.</p> <p>i. Unpaved construction site egress points shall be graveled to prevent track-out.</p> <p>j. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.</p> <p>k. Transported material in haul trucks shall be watered or treated.</p> <p>l. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.</p> <p>m. On-site stockpiles of excavated material shall be covered.</p> <p>n. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.</p> <p>o. Haul truck staging areas shall be provided for loading and unloading of soil and materials and shall be located away from sensitive receptors at the farthest feasible distance.</p> <p>p. Construction traffic control plans shall route delivery and haul trucks required during construction away from sensitive receptor locations and congested intersections to the</p>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p>extent feasible. Construction Traffic Control plans shall be finalized and approved prior to issuance of grading permits.</p> <p><b>PDF-AQ-2</b> Construction Architectural Coating Limits. The Proposed Project Amendment shall comply with the following volatile organic compound (VOC) content limits for architectural coatings during construction for residential and non-residential and uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.</p> <p><b>MAQ-1</b> Tier 4 Final Rock Crushing Equipment. Diesel-powered generators (engines greater than 750 horsepower) used for rock-crushing operations shall be equipped with Tier 4 Final engines.</p> <p><b>MAQ-2</b> Blasting and Rock-Crushing Notification. Prior to construction activities, the applicant or its designee shall employ a construction relations officer who shall address community concerns regarding on-site construction activity. The applicant shall provide public notification in the form of a visible sign containing the contact information of the construction relations officer, who shall document complaints and concerns regarding on-site construction activity. The sign shall be placed in easily accessible locations along Proctor Valley Road and noted on grading and improvement plans.</p> <p><b>MAQ-3</b> Blasting and Rock-Crushing Dust Controls. The following provisions shall be implemented to reduce emissions associated with blasting and rock-crushing activities:</p> <ol style="list-style-type: none"> <li>During blasting activities, the construction contractor shall implement all feasible engineering controls to control fugitive dust</li> </ol>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p>including exhaust ventilation, blasting cabinets and enclosures, vacuum blasters, drapes, water curtains, or wet blasting. Watering methods, such as water sprays and water applications, also shall be implemented during blasting, rock crushing, cutting, chipping, sawing, or any activity that would release dust particles to reduce fugitive dust emissions.</p> <p>b. During rock-crushing transfer and conveyance activities, material shall be watered prior to entering the crusher. Crushing activities shall not exceed an opacity limit of 20% (or Number 1 on the Ringelmann Chart) as averaged over 3 minutes in any period of 60 consecutive minutes, in accordance with San Diego Air Pollution Control District (SDAPCD) Rule 50, Visible Emissions. A qualified opacity observer shall monitor opacity from crushing activities once every 30 days while crushers are employed on site to ensure compliance with SDAPCD Rule 50. Water sprayers, conveyor belt enclosures, or other mechanisms shall be employed to reduce fugitive dust generated during transfer and conveyance of crush material.</p> <p><b>MAQ-4</b> Tier 4 Interim Construction Equipment. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County of San Diego (County) that, for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Interim. An exemption from these requirements may be granted by the County in the event that the</p>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p>applicant documents that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment. Before an exemption may be considered by the County, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the San Diego region.</p> <p><b>M-AQ-5</b> Construction Equipment Maintenance. The primary contractor shall be responsible for ensuring that all construction equipment is properly tuned and maintained in accordance with manufacturer's specifications before and for the duration of on-site operation.</p> <p><b>M-AQ-6</b> Use of Electrical-Powered Equipment. Electrical hookups shall be provided on site for hand tools such as saws, drills, and compressors used for building construction to reduce the need for electric generators and other fuel-powered equipment. The use of electrical construction equipment shall be employed, where feasible.</p> <p><b>M-AQ-7</b> Best Available Control Technology. Construction equipment shall be outfitted with best available control technology (BACT) devices certified by the California Air Resources Board. A copy of each unit's BACT documentation shall be provided to the County of San Diego at the time of mobilization of each applicable unit of equipment.</p> <p><b>M-AQ-8</b> Haul Trucks. Haul truck staging areas shall be provided for loading and unloading soil and materials,</p>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
and shall be located away from sensitive receptors at the furthest feasible distance.			
<p><b>Impact AQ-2.</b> The Approved Project would implement <b>PDF-AQ/GHG-1</b> through <b>PDF-AQ/GHG-10</b> and <b>PDF-TR-1</b>. The Approved Project's maximum daily operational emissions would potentially exceed the County's emissions thresholds for VOC and PM<sub>10</sub>. The Approved Project would implement <b>M-AQ-9</b> and <b>M-AQ-10</b>; however, reductions are not readily quantifiable; therefore, impacts would remain significant and unavoidable.</p> <p><b>PDF-AQ/GHG-1</b> Wood-Burning Stoves and Fireplaces. Prior to the issuance of residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that no wood-burning stoves or fireplaces would be constructed.</p> <p><b>PDF-AQ/GHG-2</b> Zero-Net Energy Development – Residential Land Uses. Prior to the issuance of residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating compliance with the zero net energy (ZNE) design standards defined by the California Energy Commission.</p> <p><b>PDF-AQ/GHG-3</b> Non-Residential Energy Improvement Standards. Prior to the issuance of non-residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that the Proposed Project Amendment's non-residential land uses shall achieve a 10% greater building energy efficiency than required by the 2016 state energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.</p>	<p>The EIR Land Exchange Alternative would implement <b>PDF-AQ/GHG-1</b> through <b>PDF-AQ/GHG-10</b> and <b>PDF-TR-1</b>. The EIR Land Exchange Alternative's maximum daily operational emissions would potentially exceed the County's emissions thresholds for VOC and PM<sub>10</sub>. The EIR Land Exchange Alternative would implement <b>M-AQ-9</b> and <b>M-AQ-10</b>; however, reductions are not readily quantifiable; therefore, impacts would remain significant and unavoidable.</p>	<p>The Proposed Project Amendment would implement <b>PDF-AQ/GHG-1</b> through <b>PDF-AQ/GHG-10</b> and <b>PDF-TR-1</b>. The Proposed Project Amendment's maximum daily operational emissions would potentially exceed the County's emissions thresholds for VOC and PM<sub>10</sub>. The Proposed Project Amendment would implement <b>M-AQ-9</b> and <b>M-AQ-10</b>; however, reductions are not readily quantifiable; therefore, impacts would remain significant and unavoidable.</p>	<p>The Proposed Project Amendment would result in similar operational emissions as compared to the Approved Project. However, the Proposed Project Amendment would exceed the County's thresholds for VOC and PM<sub>10</sub>, similar to the Approved Project and EIR Land Exchange Alternative, and would remain significant and unavoidable.</p>

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p><b>PDF-AQ/GHG-4</b> Energy Star Appliances. All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy Star rated or equivalent.</p> <p><b>PDF-AQ/GHG-5</b> Solar Water Heating. Prior to the issuance of private recreation center building permits, the Proposed Project Amendment applicant or its designee shall submit swimming pool heating design plans to the County of San Diego for review and approval. The design plans shall demonstrate that swimming pools located at private recreation centers in the Proposed Project Amendment Area have been designed and shall be constructed to use solar water heating or other technology with an equivalent level of energy efficiency.</p> <p><b>PDF-AQ/GHG-6</b> Efficient Outdoor Lighting. Prior to the issuance of permits, the Proposed Project Amendment applicant or its designee shall submit building plans that demonstrate that all outdoor lighting shall be (light emitting diodes) LED or other high efficiency lightbulbs</p> <p><b>PDF-AQ/GHG-7</b> Energy Efficiency Education. All new home packets shall provide information on energy efficiency, energy efficient lighting and lighting control systems, energy management, and existing energy incentive programs.</p> <p><b>PDF-AQ/GHG-8</b> Cool Roofs. Prior to the issuance of residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that residential structures shall meet the U.S. Green Building Council standards for cool roofs. This is defined as achieving a three-year solar reflectance index (SRI) of 64 for a low-sloped roof and an SRI of 32 for a high-sloped roof.</p>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p>Prior to the issuance of non-residential building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating non-residential structures shall meet the U.S. Green Building Council standards for cool roofs. This is defined as achieving a three-year SRI of 64 for a low-sloped roof and 32 for a high-sloped roof.</p> <p><b>PDF-AQ/GHG-9</b> Cool Pavements. Prior to the issuance of building permits, the Proposed Project Amendment applicant or its designee shall submit building plans illustrating that outdoor pavement, such as walkways and patios shall use paving materials with three-year SRI of 0.28 or initial SRI of 0.33.</p> <p><b>PDF-AQ/GHG-10</b> Electric Vehicle Charging Stations. Prior to the issuance of residential building permits, the applicant or its designee shall submit plans for the installation of a dedicated 208/240 dedicated branch circuit will be included in each garage and one Level 2 electric vehicle (EV) charging station in the garage of half of all residential units to the County of San Diego for review and approval. Prior to the issuance of non-residential building permits in the Proposed Project Amendment's Village Core area, the applicant or its designee shall submit plans for the installation of Level 2 EV charging stations in 10 parking spaces located in the Village Core's commercial development area and P1 through P4 park area parking spaces to the County of San Diego for review and approval.</p> <p><b>PDF-TR-1</b> Transportation Demand Management. The Proposed Project Amendment applicant or its designee shall implement a Transportation Demand Management (TDM) Program to facilitate increased</p>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<p>opportunities for transit, bicycling, and pedestrian travel, as well as provide the resources, means, and incentives for ride-sharing and carpooling. The following components are to be included in the TDM Program:</p> <ul style="list-style-type: none"> <li>• Develop a comprehensive pedestrian network designed to provide safe bicycle and pedestrian access between the various Proposed Project phases, land uses, parks/open spaces, schools, and the Village Core. Where approved by the appropriate jurisdiction, the pedestrian network would also provide connections to the various recreational trails and multi-modal facilities accessing the Project Area.</li> <li>• Provide bicycle racks along main travel corridors adjacent to commercial developments and at public parks and open spaces within the Project Area.</li> <li>• Coordinate with the San Diego Association of Governments (SANDAG) iCommute program for carpool, vanpool, and rideshare programs that are specific to the Proposed Project.</li> <li>• Promote available websites providing transportation options for residents and businesses.</li> <li>• Create and distribute a “new resident” information packet addressing alternative modes of transportation for residential and commercial residents.</li> <li>• Coordinate with San Diego Metropolitan Transit System and SANDAG about the future siting of transit stops/stations within the Project Area.</li> </ul>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<ul style="list-style-type: none"> <li>• Provide a school carpool program by coordinating with the local school district and SANDAG. Provide dedicated parking space for the school carpool program in the Village Core.</li> <li>• Implement a school bus program in coordination with the school district.</li> <li>• Require homeowner's associations within the Project Area to coordinate with the local school district and partner with the on-site elementary school to create a "walking school bus program" for neighborhood students to safely walk to and from school. The Proposed Project applicant would also coordinate with the local school district to encourage the provision of bicycle storage facilities at the on-site elementary school.</li> </ul> <p><b>M-AQ-9</b> Facilitate Use of Electrical Lawn and Garden Equipment. Prior to the issuance of residential building permits, the applicant or its designee shall provide evidence to the County of San Diego that building design plans require that residential structures be equipped with outdoor electric outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.</p> <p><b>M-AQ-10</b> Low-VOC/Green Cleaning Product Educational Program. Prior to the occupancy of any on-site development, the applicant or its designee shall provide evidence to the County of San Diego that the applicant/phase developer has developed a Green Cleaning Product and Paint education program to be made available at rental offices, leasing spaces, and/or on websites.</p>			

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
<b>Impact AQ-CUM-1.</b> The Approved Project's temporary cumulative construction impacts relative to VOC, NO <sub>x</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> could be cumulatively considerable. See <b>PDF-AQ-1</b> , <b>PDF-AQ-2</b> , and <b>M-AQ-1</b> through <b>M-AQ-8</b> above. However, impacts would be cumulatively considerable and unavoidable during the short-term construction period.	Project design features <b>PDF-AQ-1</b> , <b>PDF-AQ-2</b> , and mitigation measures <b>M-AQ-1</b> through <b>M-AQ-8</b> are provided; however, impacts would be cumulatively considerable and unavoidable during the short-term construction period.	Project design features <b>PDF-AQ-1</b> , <b>PDF-AQ-2</b> , and mitigation measures <b>M-AQ-1</b> through <b>M-AQ-8</b> are provided; however, impacts would be cumulatively considerable and unavoidable during the short-term construction period.	<p>Similar to the Approved Project, the Proposed Project Amendment's cut-and-fill quantities would be balanced on site, and no external soil export would be required. The Proposed Project Amendment is anticipated to result in less earthwork activity compared to the Approved Project.</p> <p>Regarding blasting and rock crushing activities, the Proposed Project Amendment is anticipated to result in less construction activities as compared to the Approved Project. The Proposed Project Amendment construction emissions are expected to be similar to the Approved Project construction emissions and less than the EIR Land Exchange Alternative. Impacts would be cumulatively considerable and unavoidable during the short-term construction period.</p>
<b>Impact AQ-CUM-2.</b> The Approved Project's cumulative operational impacts relative to VOC and PM <sub>10</sub> could be cumulatively considerable. See <b>PDF-AQ/GHG-1</b> through	Project design features <b>PDF-AQ/GHG-1</b> through <b>PDF-AQ/GHG-10</b> , <b>PDF-TR-1</b> , and	Project design features <b>PDF-AQ/GHG-1</b> through <b>PDF-AQ/GHG-10</b> , <b>PDF-TR-1</b> , and	The Proposed Project Amendment would result in similar operational emissions

Table 9. Project Design Features and Mitigation Measures

Approved Project Impact and PDF or Mitigation Measure	EIR Land Exchange Alternative Impact and PDF or Mitigation Measure	Proposed Project Amendment Impact and PDF or Mitigation Measure	Explanation
PDF-AQ/GHG-10, PDF-TR-1, M-AQ-9, and M-AQ-10 above. However, impacts would be cumulatively considerable and unavoidable during the operational period.	mitigation measures M-AQ-9 and M-AQ-10 are provided; however, impacts would be cumulatively considerable and unavoidable during the operational period.	mitigation measures M-AQ-9 and M-AQ-10 are provided; however, impacts would be cumulatively considerable and unavoidable during the operational period.	as compared to the Approved Project. However, the Proposed Project Amendment would exceed the County's thresholds for VOC and PM <sub>10</sub> , similar to the Approved Project and EIR Land Exchange Alternative, and would remain significant and unavoidable. Impacts would be cumulatively considerable and unavoidable during the operational period.

## Section 6. Conclusions

The Proposed Project Amendment impacts to air quality would result in similar impacts as compared to the Approved Project and Land Exchange Alternative. The Proposed Project Amendment would have no new impacts to construction and operations. Furthermore, the Proposed Project Amendment would continue to implement the PDFs and mitigation measures as described the Approved Project's Final EIR. Therefore, the Proposed Project Amendment would not result in any new significant air quality impact and would not substantially increase the severity of an air quality impact beyond those previously disclosed in the Approved Project's certified Final EIR.

## Section 7. References

Chen Ryan. 2017. *Proctor Valley Transportation Impact Study*.

Chen Ryan. 2019. *Village 14 and Planning Areas 16/19 Proposed Project Amendment - Traffic Impact Analysis Update Memo – November 2019*.

City of Chula Vista and County of San Diego. 1993. *City of Chula Vista General Development Plan/County of San Diego Otay Subregional Plan*, Volume 2. Adopted October 28, 1993; amended June 4, 1996.  
<http://www.sandiegocounty.gov/dplu/docs/OtayRanchGenDevPlanVol2.pdf>.

ConSol. 2017a. *Land Exchange EIR Alternative Building Analysis*. August 2017.

ConSol. 2017b. *Jackson Pendo Development Company Building Analysis*. February 2017.

Nielson. 2017. "Proctor Valley SRP Questions." Email between Nielson, S. and R. Kelly (Dudek).

SCAQMD (South Coast Air Quality Management District). 2003. *Final 2003 AQMP, Appendix V, Modeling and Attainment Demonstrations*. August 2003. <https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2003-air-quality-management-plan/2003-aqmp-appendix-v.pdf?sfvrsn=2>.



# Attachment A

---

CalEEMod Output Files



## Proposed Project Amendment Operational - San Diego County, Annual

## Proposed Project Amendment Operational San Diego County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	60.00	1000sqft	1.38	60,000.00	0
Industrial Park	7.50	1000sqft	0.17	7,500.00	0
Parking Lot	257.00	1000sqft	5.90	257,000.00	0
Arena	9.60	Acre	9.60	418,176.00	0
City Park	11.10	Acre	11.10	483,516.00	0
Condo/Townhouse High Rise	150.00	Dwelling Unit	2.34	150,000.00	429
Single Family Housing	1,103.00	Dwelling Unit	358.12	1,985,400.00	3155
User Defined Residential	13.00	Dwelling Unit	38.00	61,477.00	37
Regional Shopping Center	10.00	1000sqft	0.23	10,000.00	0

#### 1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	441.1	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

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

## Proposed Project Amendment Operational - San Diego County, Annual

Project Characteristics - RPS

Operational emissions only.

Land Use - Data provided by applicant.

Construction Phase - Operational only.

Off-road Equipment - Operational only.

Trips and VMT - Operational only.

Vehicle Trips - Trip lengths from LEA. Trip rates adjusted from traffic report.

Woodstoves - Single family and estate home natural gas fire place use included in building natural gas consumption.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Consol report, nonresidential assume 10% beyond 2016 Title 24

Water And Wastewater - LEA water conservation plan

Solid Waste - Assume solid waste rate 3.6 tons per day.

Sequestration -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblEnergyUse	LightingElect	1,001.10	2.23
tblEnergyUse	LightingElect	0.35	0.75
tblEnergyUse	LightingElect	1,608.84	764.00
tblEnergyUse	LightingElect	0.00	0.21
tblEnergyUse	NT24E	3,054.10	1.01
tblEnergyUse	NT24E	6,155.97	3,936.00
tblEnergyUse	NT24E	0.00	0.73
tblEnergyUse	NT24NG	4,180.00	0.00

## Proposed Project Amendment Operational - San Diego County, Annual

tblEnergyUse	NT24NG	4,180.00	5,200.00
tblEnergyUse	NT24NG	0.00	0.95
tblEnergyUse	T24E	1.21	1.09
tblEnergyUse	T24E	209.39	1.37
tblEnergyUse	T24E	1.52	1.37
tblEnergyUse	T24E	4.66	4.19
tblEnergyUse	T24E	3.18	2.86
tblEnergyUse	T24E	331.07	1,102.00
tblEnergyUse	T24E	0.00	0.21
tblEnergyUse	T24NG	4.31	3.88
tblEnergyUse	T24NG	3,248.74	4.28
tblEnergyUse	T24NG	5.44	4.90
tblEnergyUse	T24NG	15.99	14.39
tblEnergyUse	T24NG	1.14	1.03
tblEnergyUse	T24NG	19,206.92	17,700.00
tblEnergyUse	T24NG	0.00	4.65
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	82.50	0.00
tblFireplaces	NumberGas	606.65	13.00

## Proposed Project Amendment Operational - San Diego County, Annual

tblFireplaces	NumberGas	7.15	10.00
tblFireplaces	NumberNoFireplace	15.00	257.00
tblFireplaces	NumberNoFireplace	110.30	13.00
tblFireplaces	NumberNoFireplace	1.30	10.00
tblFireplaces	NumberWood	52.50	0.00
tblFireplaces	NumberWood	386.05	0.00
tblFireplaces	NumberWood	4.55	0.00
tblLandUse	LandUseSquareFeet	0.00	61,477.00
tblLandUse	LotAcreage	0.00	38.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	441.1
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	6,000.00
tblSolidWaste	SolidWasteGenerationRate	0.83	0.00
tblSolidWaste	SolidWasteGenerationRate	0.95	0.00
tblSolidWaste	SolidWasteGenerationRate	69.00	0.00
tblSolidWaste	SolidWasteGenerationRate	78.00	0.00
tblSolidWaste	SolidWasteGenerationRate	9.30	0.00
tblSolidWaste	SolidWasteGenerationRate	10.50	0.00
tblSolidWaste	SolidWasteGenerationRate	1,293.55	1,314.00
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71

## Proposed Project Amendment Operational - San Diego County, Annual

tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

## Proposed Project Amendment Operational - San Diego County, Annual

tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71

## Proposed Project Amendment Operational - San Diego County, Annual

tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	26.40
tblVehicleTrips	ST_TR	22.75	52.96
tblVehicleTrips	ST_TR	4.31	7.26
tblVehicleTrips	ST_TR	2.49	1.60
tblVehicleTrips	ST_TR	49.97	113.28
tblVehicleTrips	ST_TR	9.91	9.16
tblVehicleTrips	ST_TR	0.00	10.99
tblVehicleTrips	SU_TR	0.00	26.40
tblVehicleTrips	SU_TR	16.74	38.97

## Proposed Project Amendment Operational - San Diego County, Annual

tblVehicleTrips	SU_TR	3.43	5.78
tblVehicleTrips	SU_TR	0.73	1.60
tblVehicleTrips	SU_TR	25.24	57.22
tblVehicleTrips	SU_TR	8.62	7.97
tblVehicleTrips	SU_TR	0.00	9.56
tblVehicleTrips	WD_TR	33.33	26.40
tblVehicleTrips	WD_TR	1.89	4.40
tblVehicleTrips	WD_TR	4.18	7.04
tblVehicleTrips	WD_TR	15.43	12.00
tblVehicleTrips	WD_TR	6.83	1.60
tblVehicleTrips	WD_TR	42.70	96.80
tblVehicleTrips	WD_TR	9.52	8.80
tblVehicleTrips	WD_TR	0.00	10.56
tblWater	IndoorWaterUseRate	12,923,103.53	3,328,800.00
tblWater	IndoorWaterUseRate	0.00	4,525,088.00
tblWater	IndoorWaterUseRate	9,773,103.84	5,475,000.00
tblWater	IndoorWaterUseRate	1,739,815.03	3,225,049.00
tblWater	IndoorWaterUseRate	1,734,375.00	814,406.00
tblWater	IndoorWaterUseRate	740,725.21	879,559.00
tblWater	IndoorWaterUseRate	71,864,890.26	113,099,813.00
tblWater	IndoorWaterUseRate	0.00	2,372,500.00
tblWater	OutdoorWaterUseRate	824,878.95	3,328,800.00
tblWater	OutdoorWaterUseRate	13,225,442.98	13,575,263.00
tblWater	OutdoorWaterUseRate	6,161,304.60	5,475,000.00
tblWater	OutdoorWaterUseRate	4,473,810.08	3,225,049.00
tblWater	OutdoorWaterUseRate	0.00	814,406.00
tblWater	OutdoorWaterUseRate	453,992.87	879,559.00

## Proposed Project Amendment Operational - San Diego County, Annual

tblWater	OutdoorWaterUseRate	45,306,126.47	133,099,813.00
tblWater	OutdoorWaterUseRate	0.00	2,372,500.00
tblWoodstoves	NumberCatalytic	7.50	0.00
tblWoodstoves	NumberCatalytic	55.15	0.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	7.50	0.00
tblWoodstoves	NumberNoncatalytic	55.15	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

---

## Proposed Project Amendment Operational - San Diego County, Annual

## 2.1 Overall Construction

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

## 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	13.2347	0.1082	9.3945	5.0000e-004		0.0521	0.0521		0.0521	0.0521	0.0000	15.3614	15.3614	0.0147	0.0000	15.7294
Energy	0.1658	1.4326	0.7210	9.0400e-003		0.1145	0.1145		0.1145	0.1145	0.0000	3,763.9216	3,763.9216	0.1711	0.0590	3,785.7676
Mobile	2.9380	12.5478	37.9544	0.1560	16.9045	0.1101	17.0146	4.5252	0.1023	4.6275	0.0000	14,470.0763	14,470.0763	0.6865	0.0000	14,487.2394
Waste						0.0000	0.0000		0.0000	0.0000	266.7301	0.0000	266.7301	15.7633	0.0000	660.8126
Water						0.0000	0.0000		0.0000	0.0000	42.4233	710.1925	752.6158	4.4040	0.1126	896.2533
<b>Total</b>	<b>16.3385</b>	<b>14.0886</b>	<b>48.0699</b>	<b>0.1655</b>	<b>16.9045</b>	<b>0.2768</b>	<b>17.1813</b>	<b>4.5252</b>	<b>0.2690</b>	<b>4.7941</b>	<b>309.1534</b>	<b>18,959.5518</b>	<b>19,268.7052</b>	<b>21.0396</b>	<b>0.1715</b>	<b>19,845.8024</b>

## Proposed Project Amendment Operational - San Diego County, Annual

## 2.2 Overall Operational

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	13.2347	0.1082	9.3945	5.0000e-004		0.0521	0.0521		0.0521	0.0521	0.0000	15.3614	15.3614	0.0147	0.0000	15.7294
Energy	0.1658	1.4326	0.7210	9.0400e-003		0.1145	0.1145		0.1145	0.1145	0.0000	3,763.9216	3,763.9216	0.1711	0.0590	3,785.7676
Mobile	2.9380	12.5478	37.9544	0.1560	16.9045	0.1101	17.0146	4.5252	0.1023	4.6275	0.0000	14,470.0763	14,470.0763	0.6865	0.0000	14,487.2394
Waste						0.0000	0.0000		0.0000	0.0000	266.7301	0.0000	266.7301	15.7633	0.0000	660.8126
Water						0.0000	0.0000		0.0000	0.0000	42.4233	710.1925	752.6158	4.4040	0.1126	896.2533
Total	16.3385	14.0886	48.0699	0.1655	16.9045	0.2768	17.1813	4.5252	0.2690	4.7941	309.1534	18,959.5518	19,268.7052	21.0396	0.1715	19,845.8024

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

**2.3 Vegetation****Vegetation**

	CO2e
Category	MT
New Trees	4,248.000 0
Total	4,248.000 0

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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/29/2019	7/28/2021	5	500	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 5.9****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

## Proposed Project Amendment Operational - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2019

### Unmitigated Construction On-Site

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

### 3.2 Demolition - 2019

### Unmitigated Construction Off-Site

[illegible]

### Mitigated Construction On-Site

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

### 3.2 Demolition - 2019

### Mitigated Construction Off-Site

[illegible]

### 3.2 Demolition - 2020

### Unmitigated Construction On-Site

[illegible]

Proposed Project Amendment Operational - San Diego County, Annual

### 3.2 Demolition - 2020

### Unmitigated Construction Off-Site

[illegible]

### Mitigated Construction On-Site

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

### 3.2 Demolition - 2020

### Mitigated Construction Off-Site

[illegible]

### 3.2 Demolition - 2021

### Unmitigated Construction On-Site

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

### 3.2 Demolition - 2021

### Unmitigated Construction Off-Site

[illegible]

### Mitigated Construction On-Site

[illegible]

## Proposed Project Amendment Operational - San Diego County, Annual

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

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

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

## Proposed Project Amendment Operational - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9380	12.5478	37.9544	0.1560	16.9045	0.1101	17.0146	4.5252	0.1023	4.6275	0.0000	14,470.07 63	14,470.07 63	0.6865	0.0000	14,487.23 94
Unmitigated	2.9380	12.5478	37.9544	0.1560	16.9045	0.1101	17.0146	4.5252	0.1023	4.6275	0.0000	14,470.07 63	14,470.07 63	0.6865	0.0000	14,487.23 94

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	253.44	253.44	253.44	895,768	895,768
City Park	48.84	587.86	432.57	638,533	638,533
Condo/Townhouse High Rise	1,056.00	1,089.00	867.00	3,653,601	3,653,601
Elementary School	720.00	0.00	0.00	1,817,712	1,817,712
Industrial Park	12.00	12.00	12.00	42,413	42,413
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	968.00	1,132.80	572.20	3,304,701	3,304,701
Single Family Housing	9,706.40	10,103.48	8790.91	34,044,933	34,044,933
User Defined Residential	137.28	142.87	124.28	481,466	481,466
Total	12,901.96	13,321.45	11,052.40	44,879,129	44,879,129

## 4.3 Trip Type Information

## Proposed Project Amendment Operational - San Diego County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.71	9.71	9.71	0.00	81.00	19.00	100	0	0
City Park	9.71	9.71	9.71	33.00	48.00	19.00	100	0	0
Condo/Townhouse High Rise	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0
Elementary School	9.71	9.71	9.71	65.00	30.00	5.00	100	0	0
Industrial Park	9.71	9.71	9.71	59.00	28.00	13.00	100	0	0
Parking Lot	9.71	9.71	9.71	0.00	0.00	0.00	100	0	0
Regional Shopping Center	9.71	9.71	9.71	16.30	64.70	19.00	100	0	0
Single Family Housing	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0
User Defined Residential	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
City Park	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Condo/Townhouse High Rise	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Elementary School	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Industrial Park	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Parking Lot	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Regional Shopping Center	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Single Family Housing	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
User Defined Residential	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837

## 5.0 Energy Detail

---

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

## Proposed Project Amendment Operational - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,123.4836	2,123.4836	0.1396	0.0289	2,135.5814
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,123.4836	2,123.4836	0.1396	0.0289	2,135.5814
NaturalGas Mitigated	0.1658	1.4326	0.7210	9.0400e-003		0.1145	0.1145		0.1145	0.1145	0.0000	1,640.4380	1,640.4380	0.0314	0.0301	1,650.1863
NaturalGas Unmitigated	0.1658	1.4326	0.7210	9.0400e-003		0.1145	0.1145		0.1145	0.1145	0.0000	1,640.4380	1,640.4380	0.0314	0.0301	1,650.1863

## Proposed Project Amendment Operational - San Diego County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	4.65388e+006	0.0251	0.2281	0.1916	1.3700e-003		0.0173	0.0173		0.0173	0.0173	0.0000	248.3488	248.3488	4.7600e-003	4.5500e-003	249.8246
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	642	0.0000	3.0000e-005	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0343	0.0343	0.0000	0.0000	0.0345
Elementary School	322560	1.7400e-003	0.0158	0.0133	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	17.2130	17.2130	3.3000e-004	3.2000e-004	17.3153
Industrial Park	139433	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4407	7.4407	1.4000e-004	1.4000e-004	7.4849
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	21160	1.1000e-004	1.0400e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1292	1.1292	2.0000e-005	2.0000e-005	1.1359
Single Family Housing	2.52587e+007	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.9004	1,347.9004	0.0258	0.0247	1,355.9103
User Defined Residential	344271	1.8600e-003	0.0169	0.0142	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.3716	18.3716	3.5000e-004	3.4000e-004	18.4808
<b>Total</b>		<b>0.1658</b>	<b>1.4326</b>	<b>0.7210</b>	<b>9.0400e-003</b>		<b>0.1145</b>	<b>0.1145</b>		<b>0.1145</b>	<b>0.1145</b>	<b>0.0000</b>	<b>1,640.4380</b>	<b>1,640.4380</b>	<b>0.0314</b>	<b>0.0301</b>	<b>1,650.1863</b>

## Proposed Project Amendment Operational - San Diego County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	4.65388e+006	0.0251	0.2281	0.1916	1.3700e-003		0.0173	0.0173		0.0173	0.0173	0.0000	248.3488	248.3488	4.7600e-003	4.5500e-003	249.8246
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	642	0.0000	3.0000e-005	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0343	0.0343	0.0000	0.0000	0.0345
Elementary School	322560	1.7400e-003	0.0158	0.0133	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	17.2130	17.2130	3.3000e-004	3.2000e-004	17.3153
Industrial Park	139433	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4407	7.4407	1.4000e-004	1.4000e-004	7.4849
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	21160	1.1000e-004	1.0400e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1292	1.1292	2.0000e-005	2.0000e-005	1.1359
Single Family Housing	2.52587e+007	0.1362	1.1639	0.4953	7.4300e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.9004	1,347.9004	0.0258	0.0247	1,355.9103
User Defined Residential	344271	1.8600e-003	0.0169	0.0142	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.3716	18.3716	3.5000e-004	3.4000e-004	18.4808
<b>Total</b>		<b>0.1658</b>	<b>1.4326</b>	<b>0.7210</b>	<b>9.0400e-003</b>		<b>0.1145</b>	<b>0.1145</b>		<b>0.1145</b>	<b>0.1145</b>	<b>0.0000</b>	<b>1,640.4380</b>	<b>1,640.4380</b>	<b>0.0314</b>	<b>0.0301</b>	<b>1,650.1863</b>

## Proposed Project Amendment Operational - San Diego County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	3.42444e+006	685.1612	0.0451	9.3200e-003	689.0647
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	691.5	0.1384	1.0000e-005	0.0000	0.1391
Elementary School	305280	61.0803	4.0200e-003	8.3000e-004	61.4283
Industrial Park	97305	19.4687	1.2800e-003	2.6000e-004	19.5797
Parking Lot	192750	38.5653	2.5400e-003	5.2000e-004	38.7851
Regional Shopping Center	122420	24.4937	1.6100e-003	3.3000e-004	24.6333
Single Family Housing	6.39961e+006	1,280.4306	0.0842	0.0174	1,287.7253
User Defined Residential	70698.5	14.1453	9.3000e-004	1.9000e-004	14.2259
<b>Total</b>		<b>2,123.4836</b>	<b>0.1396</b>	<b>0.0289</b>	<b>2,135.5814</b>

## Proposed Project Amendment Operational - San Diego County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	3.42444e+006	685.1612	0.0451	9.3200e-003	689.0647
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	691.5	0.1384	1.0000e-005	0.0000	0.1391
Elementary School	305280	61.0803	4.0200e-003	8.3000e-004	61.4283
Industrial Park	97305	19.4687	1.2800e-003	2.6000e-004	19.5797
Parking Lot	192750	38.5653	2.5400e-003	5.2000e-004	38.7851
Regional Shopping Center	122420	24.4937	1.6100e-003	3.3000e-004	24.6333
Single Family Housing	6.39961e+006	1,280.4306	0.0842	0.0174	1,287.7253
User Defined Residential	70698.5	14.1453	9.3000e-004	1.9000e-004	14.2259
<b>Total</b>		<b>2,123.4836</b>	<b>0.1396</b>	<b>0.0289</b>	<b>2,135.5814</b>

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

## Proposed Project Amendment Operational - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	13.2347	0.1082	9.3945	5.0000e-004		0.0521	0.0521		0.0521	0.0521	0.0000	15.3614	15.3614	0.0147	0.0000	15.7294
Unmitigated	13.2347	0.1082	9.3945	5.0000e-004		0.0521	0.0521		0.0521	0.0521	0.0000	15.3614	15.3614	0.0147	0.0000	15.7294

## 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	2.4155					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.5369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2823	0.1082	9.3945	5.0000e-004		0.0521	0.0521		0.0521	0.0521	0.0000	15.3614	15.3614	0.0147	0.0000	15.7294
<b>Total</b>	<b>13.2347</b>	<b>0.1082</b>	<b>9.3945</b>	<b>5.0000e-004</b>		<b>0.0521</b>	<b>0.0521</b>		<b>0.0521</b>	<b>0.0521</b>	<b>0.0000</b>	<b>15.3614</b>	<b>15.3614</b>	<b>0.0147</b>	<b>0.0000</b>	<b>15.7294</b>

## Proposed Project Amendment Operational - San Diego County, Annual

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4155					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.5369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2823	0.1082	9.3945	5.0000e-004		0.0521	0.0521		0.0521	0.0521	0.0000	15.3614	15.3614	0.0147	0.0000	15.7294
<b>Total</b>	<b>13.2347</b>	<b>0.1082</b>	<b>9.3945</b>	<b>5.0000e-004</b>		<b>0.0521</b>	<b>0.0521</b>		<b>0.0521</b>	<b>0.0521</b>	<b>0.0000</b>	<b>15.3614</b>	<b>15.3614</b>	<b>0.0147</b>	<b>0.0000</b>	<b>15.7294</b>

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

## Proposed Project Amendment Operational - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	752.6158	4.4040	0.1126	896.2533
Unmitigated	752.6158	4.4040	0.1126	896.2533

## Proposed Project Amendment Operational - San Diego County, Annual

**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	3.3288 / 3.3288	17.1279	0.1095	2.7800e-003	20.6945
City Park	4.52509 / 13.5753	43.4008	0.1502	4.0500e-003	48.3636
Condo/Townhouse High Rise	5.475 / 5.475	28.1709	0.1801	4.5700e-003	34.0369
Elementary School	3.22505 / 3.22505	16.5941	0.1061	2.6900e-003	20.0495
Industrial Park	0.814406 / 0.814406	4.1904	0.0268	6.8000e-004	5.0630
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879559 / 0.879559	4.5257	0.0289	7.3000e-004	5.4680
Single Family Housing	113.1 / 133.1	626.3986	3.7242	0.0951	747.8286
User Defined Residential	2.3725 / 2.3725	12.2074	0.0781	1.9800e-003	14.7493
<b>Total</b>		<b>752.6158</b>	<b>4.4040</b>	<b>0.1125</b>	<b>896.2534</b>

## Proposed Project Amendment Operational - San Diego County, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	3.3288 / 3.3288	17.1279	0.1095	2.7800e-003	20.6945
City Park	4.52509 / 13.5753	43.4008	0.1502	4.0500e-003	48.3636
Condo/Townhouse High Rise	5.475 / 5.475	28.1709	0.1801	4.5700e-003	34.0369
Elementary School	3.22505 / 3.22505	16.5941	0.1061	2.6900e-003	20.0495
Industrial Park	0.814406 / 0.814406	4.1904	0.0268	6.8000e-004	5.0630
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879559 / 0.879559	4.5257	0.0289	7.3000e-004	5.4680
Single Family Housing	113.1 / 133.1	626.3986	3.7242	0.0951	747.8286
User Defined Residential	2.3725 / 2.3725	12.2074	0.0781	1.9800e-003	14.7493
<b>Total</b>		<b>752.6158</b>	<b>4.4040</b>	<b>0.1125</b>	<b>896.2534</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

## Proposed Project Amendment Operational - San Diego County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	266.7301	15.7633	0.0000	660.8126
Unmitigated	266.7301	15.7633	0.0000	660.8126

## Proposed Project Amendment Operational - San Diego County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1314	266.7301	15.7633	0.0000	660.8126
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>266.7301</b>	<b>15.7633</b>	<b>0.0000</b>	<b>660.8126</b>

## Proposed Project Amendment Operational - San Diego County, Annual

**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1314	266.7301	15.7633	0.0000	660.8126
User Defined Residential	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>266.7301</b>	<b>15.7633</b>	<b>0.0000</b>	<b>660.8126</b>

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

## Proposed Project Amendment Operational - San Diego County, Annual

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Proposed Project Amendment Operational - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	4,248.000 0	0.0000	0.0000	4,248.000 0

## 11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	6000	4,248.000 0	0.0000	0.0000	4,248.000 0
<b>Total</b>		<b>4,248.000 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4,248.000 0</b>

## Proposed Project Amendment Operational - San Diego County, Summer

## Proposed Project Amendment Operational

### San Diego County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	60.00	1000sqft	1.38	60,000.00	0
Industrial Park	7.50	1000sqft	0.17	7,500.00	0
Parking Lot	257.00	1000sqft	5.90	257,000.00	0
Arena	9.60	Acre	9.60	418,176.00	0
City Park	11.10	Acre	11.10	483,516.00	0
Condo/Townhouse High Rise	150.00	Dwelling Unit	2.34	150,000.00	429
Single Family Housing	1,103.00	Dwelling Unit	358.12	1,985,400.00	3155
User Defined Residential	13.00	Dwelling Unit	38.00	61,477.00	37
Regional Shopping Center	10.00	1000sqft	0.23	10,000.00	0

### 1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	441.1	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

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

## Proposed Project Amendment Operational - San Diego County, Summer

Project Characteristics - RPS

Operational emissions only.

Land Use - Data provided by applicant.

Construction Phase - Operational only.

Off-road Equipment - Operational only.

Trips and VMT - Operational only.

Vehicle Trips - Trip lengths from LEA. Trip rates adjusted from traffic report.

Woodstoves - Single family and estate home natural gas fire place use included in building natural gas consumption.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Consol report, nonresidential assume 10% beyond 2016 Title 24

Water And Wastewater - LEA water conservation plan

Solid Waste - Assume solid waste rate 3.6 tons per day.

Sequestration -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblEnergyUse	LightingElect	1,001.10	2.23
tblEnergyUse	LightingElect	0.35	0.75
tblEnergyUse	LightingElect	1,608.84	764.00
tblEnergyUse	LightingElect	0.00	0.21
tblEnergyUse	NT24E	3,054.10	1.01
tblEnergyUse	NT24E	6,155.97	3,936.00
tblEnergyUse	NT24E	0.00	0.73
tblEnergyUse	NT24NG	4,180.00	0.00

## Proposed Project Amendment Operational - San Diego County, Summer

tblEnergyUse	NT24NG	4,180.00	5,200.00
tblEnergyUse	NT24NG	0.00	0.95
tblEnergyUse	T24E	1.21	1.09
tblEnergyUse	T24E	209.39	1.37
tblEnergyUse	T24E	1.52	1.37
tblEnergyUse	T24E	4.66	4.19
tblEnergyUse	T24E	3.18	2.86
tblEnergyUse	T24E	331.07	1,102.00
tblEnergyUse	T24E	0.00	0.21
tblEnergyUse	T24NG	4.31	3.88
tblEnergyUse	T24NG	3,248.74	4.28
tblEnergyUse	T24NG	5.44	4.90
tblEnergyUse	T24NG	15.99	14.39
tblEnergyUse	T24NG	1.14	1.03
tblEnergyUse	T24NG	19,206.92	17,700.00
tblEnergyUse	T24NG	0.00	4.65
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	82.50	0.00
tblFireplaces	NumberGas	606.65	13.00

## Proposed Project Amendment Operational - San Diego County, Summer

tblFireplaces	NumberGas	7.15	10.00
tblFireplaces	NumberNoFireplace	15.00	257.00
tblFireplaces	NumberNoFireplace	110.30	13.00
tblFireplaces	NumberNoFireplace	1.30	10.00
tblFireplaces	NumberWood	52.50	0.00
tblFireplaces	NumberWood	386.05	0.00
tblFireplaces	NumberWood	4.55	0.00
tblLandUse	LandUseSquareFeet	0.00	61,477.00
tblLandUse	LotAcreage	0.00	38.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	441.1
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	6,000.00
tblSolidWaste	SolidWasteGenerationRate	0.83	0.00
tblSolidWaste	SolidWasteGenerationRate	0.95	0.00
tblSolidWaste	SolidWasteGenerationRate	69.00	0.00
tblSolidWaste	SolidWasteGenerationRate	78.00	0.00
tblSolidWaste	SolidWasteGenerationRate	9.30	0.00
tblSolidWaste	SolidWasteGenerationRate	10.50	0.00
tblSolidWaste	SolidWasteGenerationRate	1,293.55	1,314.00
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71

## Proposed Project Amendment Operational - San Diego County, Summer

tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

## Proposed Project Amendment Operational - San Diego County, Summer

tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71

## Proposed Project Amendment Operational - San Diego County, Summer

tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	26.40
tblVehicleTrips	ST_TR	22.75	52.96
tblVehicleTrips	ST_TR	4.31	7.26
tblVehicleTrips	ST_TR	2.49	1.60
tblVehicleTrips	ST_TR	49.97	113.28
tblVehicleTrips	ST_TR	9.91	9.16
tblVehicleTrips	ST_TR	0.00	10.99
tblVehicleTrips	SU_TR	0.00	26.40
tblVehicleTrips	SU_TR	16.74	38.97

## Proposed Project Amendment Operational - San Diego County, Summer

tblVehicleTrips	SU_TR	3.43	5.78
tblVehicleTrips	SU_TR	0.73	1.60
tblVehicleTrips	SU_TR	25.24	57.22
tblVehicleTrips	SU_TR	8.62	7.97
tblVehicleTrips	SU_TR	0.00	9.56
tblVehicleTrips	WD_TR	33.33	26.40
tblVehicleTrips	WD_TR	1.89	4.40
tblVehicleTrips	WD_TR	4.18	7.04
tblVehicleTrips	WD_TR	15.43	12.00
tblVehicleTrips	WD_TR	6.83	1.60
tblVehicleTrips	WD_TR	42.70	96.80
tblVehicleTrips	WD_TR	9.52	8.80
tblVehicleTrips	WD_TR	0.00	10.56
tblWater	IndoorWaterUseRate	12,923,103.53	3,328,800.00
tblWater	IndoorWaterUseRate	0.00	4,525,088.00
tblWater	IndoorWaterUseRate	9,773,103.84	5,475,000.00
tblWater	IndoorWaterUseRate	1,739,815.03	3,225,049.00
tblWater	IndoorWaterUseRate	1,734,375.00	814,406.00
tblWater	IndoorWaterUseRate	740,725.21	879,559.00
tblWater	IndoorWaterUseRate	71,864,890.26	113,099,813.00
tblWater	IndoorWaterUseRate	0.00	2,372,500.00
tblWater	OutdoorWaterUseRate	824,878.95	3,328,800.00
tblWater	OutdoorWaterUseRate	13,225,442.98	13,575,263.00
tblWater	OutdoorWaterUseRate	6,161,304.60	5,475,000.00
tblWater	OutdoorWaterUseRate	4,473,810.08	3,225,049.00
tblWater	OutdoorWaterUseRate	0.00	814,406.00
tblWater	OutdoorWaterUseRate	453,992.87	879,559.00

## Proposed Project Amendment Operational - San Diego County, Summer

tblWater	OutdoorWaterUseRate	45,306,126.47	133,099,813.00
tblWater	OutdoorWaterUseRate	0.00	2,372,500.00
tblWoodstoves	NumberCatalytic	7.50	0.00
tblWoodstoves	NumberCatalytic	55.15	0.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	7.50	0.00
tblWoodstoves	NumberNoncatalytic	55.15	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

---

## Proposed Project Amendment Operational - San Diego County, Summer

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible]

Proposed Project Amendment Operational - San Diego County, Summer

[illegible]

## Proposed Project Amendment Operational - San Diego County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524
Energy	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273
Mobile	18.8414	74.0311	240.1180	0.9885	105.1808	0.6691	105.8499	28.1008	0.6218	28.7226		101,034.4039	101,034.4039	4.6367		101,150.3225
<b>Total</b>	<b>93.8582</b>	<b>83.0833</b>	<b>348.4524</b>	<b>1.0436</b>	<b>105.1808</b>	<b>1.8758</b>	<b>107.0566</b>	<b>28.1008</b>	<b>1.8285</b>	<b>29.9293</b>	<b>0.0000</b>	<b>111,130.8958</b>	<b>111,130.8958</b>	<b>5.0070</b>	<b>0.1817</b>	<b>111,310.2022</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524
Energy	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273
Mobile	18.8414	74.0311	240.1180	0.9885	105.1808	0.6691	105.8499	28.1008	0.6218	28.7226		101,034.4039	101,034.4039	4.6367		101,150.3225
<b>Total</b>	<b>93.8582</b>	<b>83.0833</b>	<b>348.4524</b>	<b>1.0436</b>	<b>105.1808</b>	<b>1.8758</b>	<b>107.0566</b>	<b>28.1008</b>	<b>1.8285</b>	<b>29.9293</b>	<b>0.0000</b>	<b>111,130.8958</b>	<b>111,130.8958</b>	<b>5.0070</b>	<b>0.1817</b>	<b>111,310.2022</b>

## Proposed Project Amendment Operational - San Diego County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/29/2019	7/28/2021	5	500	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

## Proposed Project Amendment Operational - San Diego County, Summer

**3.1 Mitigation Measures Construction****3.2 Demolition - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Summer

**3.2 Demolition - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Summer

**3.2 Demolition - 2020****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Summer

**3.2 Demolition - 2020****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Summer

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

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

**Unmitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Summer

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

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

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

## Proposed Project Amendment Operational - San Diego County, Summer

**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	lb/day										lb/day					
Mitigated	18.8414	74.0311	240.1180	0.9885	105.1808	0.6691	105.8499	28.1008	0.6218	28.7226		101,034.4039	101,034.4039	4.6367		101,150.3225
Unmitigated	18.8414	74.0311	240.1180	0.9885	105.1808	0.6691	105.8499	28.1008	0.6218	28.7226		101,034.4039	101,034.4039	4.6367		101,150.3225

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	253.44	253.44	253.44	895,768	895,768
City Park	48.84	587.86	432.57	638,533	638,533
Condo/Townhouse High Rise	1,056.00	1,089.00	867.00	3,653,601	3,653,601
Elementary School	720.00	0.00	0.00	1,817,712	1,817,712
Industrial Park	12.00	12.00	12.00	42,413	42,413
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	968.00	1,132.80	572.20	3,304,701	3,304,701
Single Family Housing	9,706.40	10,103.48	8790.91	34,044,933	34,044,933
User Defined Residential	137.28	142.87	124.28	481,466	481,466
Total	12,901.96	13,321.45	11,052.40	44,879,129	44,879,129

**4.3 Trip Type Information**

## Proposed Project Amendment Operational - San Diego County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.71	9.71	9.71	0.00	81.00	19.00	100	0	0
City Park	9.71	9.71	9.71	33.00	48.00	19.00	100	0	0
Condo/Townhouse High Rise	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0
Elementary School	9.71	9.71	9.71	65.00	30.00	5.00	100	0	0
Industrial Park	9.71	9.71	9.71	59.00	28.00	13.00	100	0	0
Parking Lot	9.71	9.71	9.71	0.00	0.00	0.00	100	0	0
Regional Shopping Center	9.71	9.71	9.71	16.30	64.70	19.00	100	0	0
Single Family Housing	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0
User Defined Residential	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
City Park	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Condo/Townhouse High Rise	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Elementary School	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Industrial Park	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Parking Lot	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Regional Shopping Center	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Single Family Housing	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
User Defined Residential	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837

## 5.0 Energy Detail

---

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

## Proposed Project Amendment Operational - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273
NaturalGas Unmitigated	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273

## Proposed Project Amendment Operational - San Diego County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	12750.4	0.1375	1.2500	1.0500	7.5000e-003		0.0950	0.0950		0.0950	0.0950		1,500.0421	1,500.0421	0.0288	0.0275	1,508.9561
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.7589	2.0000e-005	1.6000e-004	7.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.2069	0.2069	0.0000	0.0000	0.2082
Elementary School	883.726	9.5300e-003	0.0866	0.0728	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003		103.9678	103.9678	1.9900e-003	1.9100e-003	104.5856
Industrial Park	382.007	4.1200e-003	0.0375	0.0315	2.2000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		44.9420	44.9420	8.6000e-004	8.2000e-004	45.2091
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	57.9726	6.3000e-004	5.6800e-003	4.7700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8203	6.8203	1.3000e-004	1.3000e-004	6.8608
Single Family Housing	69201.9	0.7463	6.3774	2.7138	0.0407		0.5156	0.5156		0.5156	0.5156		8,141.4021	8,141.4021	0.1560	0.1493	8,189.7824
User Defined Residential	943.209	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003		110.9657	110.9657	2.1300e-003	2.0300e-003	111.6252
<b>Total</b>		<b>0.9083</b>	<b>7.8499</b>	<b>3.9506</b>	<b>0.0495</b>		<b>0.6275</b>	<b>0.6275</b>		<b>0.6275</b>	<b>0.6275</b>		<b>9,908.3470</b>	<b>9,908.3470</b>	<b>0.1899</b>	<b>0.1817</b>	<b>9,967.2273</b>

## Proposed Project Amendment Operational - San Diego County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	12.7504	0.1375	1.2500	1.0500	7.5000e-003		0.0950	0.0950		0.0950	0.0950		1,500.0421	1,500.0421	0.0288	0.0275	1,508.9561
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	0.0017589	2.0000e-005	1.6000e-004	7.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.2069	0.2069	0.0000	0.0000	0.2082
Elementary School	0.883726	9.5300e-003	0.0866	0.0728	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003		103.9678	103.9678	1.9900e-003	1.9100e-003	104.5856
Industrial Park	0.382007	4.1200e-003	0.0375	0.0315	2.2000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		44.9420	44.9420	8.6000e-004	8.2000e-004	45.2091
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0579726	6.3000e-004	5.6800e-003	4.7700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8203	6.8203	1.3000e-004	1.3000e-004	6.8608
Single Family Housing	69.2019	0.7463	6.3774	2.7138	0.0407		0.5156	0.5156		0.5156	0.5156		8,141.4021	8,141.4021	0.1560	0.1493	8,189.7824
User Defined Residential	0.943209	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003		110.9657	110.9657	2.1300e-003	2.0300e-003	111.6252
<b>Total</b>		<b>0.9083</b>	<b>7.8499</b>	<b>3.9506</b>	<b>0.0495</b>		<b>0.6275</b>	<b>0.6275</b>		<b>0.6275</b>	<b>0.6275</b>		<b>9,908.3470</b>	<b>9,908.3470</b>	<b>0.1899</b>	<b>0.1817</b>	<b>9,967.2273</b>

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

## Proposed Project Amendment Operational - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524
Unmitigated	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.2357					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	57.7366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1363	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791		188.1450	188.1450	0.1803		192.6524
<b>Total</b>	<b>74.1086</b>	<b>1.2023</b>	<b>104.3838</b>	<b>5.5200e-003</b>		<b>0.5791</b>	<b>0.5791</b>		<b>0.5791</b>	<b>0.5791</b>	<b>0.0000</b>	<b>188.1450</b>	<b>188.1450</b>	<b>0.1803</b>	<b>0.0000</b>	<b>192.6524</b>

## Proposed Project Amendment Operational - San Diego County, Summer

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.2357					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	57.7366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1363	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791		188.1450	188.1450	0.1803		192.6524
<b>Total</b>	<b>74.1086</b>	<b>1.2023</b>	<b>104.3838</b>	<b>5.5200e-003</b>		<b>0.5791</b>	<b>0.5791</b>		<b>0.5791</b>	<b>0.5791</b>	<b>0.0000</b>	<b>188.1450</b>	<b>188.1450</b>	<b>0.1803</b>	<b>0.0000</b>	<b>192.6524</b>

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

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

**10.0 Stationary Equipment**

## Proposed Project Amendment Operational - San Diego County, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

## Proposed Project Amendment Operational - San Diego County, Winter

## Proposed Project Amendment Operational

### San Diego County, Winter

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	60.00	1000sqft	1.38	60,000.00	0
Industrial Park	7.50	1000sqft	0.17	7,500.00	0
Parking Lot	257.00	1000sqft	5.90	257,000.00	0
Arena	9.60	Acre	9.60	418,176.00	0
City Park	11.10	Acre	11.10	483,516.00	0
Condo/Townhouse High Rise	150.00	Dwelling Unit	2.34	150,000.00	429
Single Family Housing	1,103.00	Dwelling Unit	358.12	1,985,400.00	3155
User Defined Residential	13.00	Dwelling Unit	38.00	61,477.00	37
Regional Shopping Center	10.00	1000sqft	0.23	10,000.00	0

### 1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	441.1	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

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

## Proposed Project Amendment Operational - San Diego County, Winter

Project Characteristics - RPS

Operational emissions only.

Land Use - Data provided by applicant.

Construction Phase - Operational only.

Off-road Equipment - Operational only.

Trips and VMT - Operational only.

Vehicle Trips - Trip lengths from LEA. Trip rates adjusted from traffic report.

Woodstoves - Single family and estate home natural gas fire place use included in building natural gas consumption.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Consol report, nonresidential assume 10% beyond 2016 Title 24

Water And Wastewater - LEA water conservation plan

Solid Waste - Assume solid waste rate 3.6 tons per day.

Sequestration -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblEnergyUse	LightingElect	1,001.10	2.23
tblEnergyUse	LightingElect	0.35	0.75
tblEnergyUse	LightingElect	1,608.84	764.00
tblEnergyUse	LightingElect	0.00	0.21
tblEnergyUse	NT24E	3,054.10	1.01
tblEnergyUse	NT24E	6,155.97	3,936.00
tblEnergyUse	NT24E	0.00	0.73
tblEnergyUse	NT24NG	4,180.00	0.00

## Proposed Project Amendment Operational - San Diego County, Winter

tblEnergyUse	NT24NG	4,180.00	5,200.00
tblEnergyUse	NT24NG	0.00	0.95
tblEnergyUse	T24E	1.21	1.09
tblEnergyUse	T24E	209.39	1.37
tblEnergyUse	T24E	1.52	1.37
tblEnergyUse	T24E	4.66	4.19
tblEnergyUse	T24E	3.18	2.86
tblEnergyUse	T24E	331.07	1,102.00
tblEnergyUse	T24E	0.00	0.21
tblEnergyUse	T24NG	4.31	3.88
tblEnergyUse	T24NG	3,248.74	4.28
tblEnergyUse	T24NG	5.44	4.90
tblEnergyUse	T24NG	15.99	14.39
tblEnergyUse	T24NG	1.14	1.03
tblEnergyUse	T24NG	19,206.92	17,700.00
tblEnergyUse	T24NG	0.00	4.65
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	82.50	0.00
tblFireplaces	NumberGas	606.65	13.00

## Proposed Project Amendment Operational - San Diego County, Winter

tblFireplaces	NumberGas	7.15	10.00
tblFireplaces	NumberNoFireplace	15.00	257.00
tblFireplaces	NumberNoFireplace	110.30	13.00
tblFireplaces	NumberNoFireplace	1.30	10.00
tblFireplaces	NumberWood	52.50	0.00
tblFireplaces	NumberWood	386.05	0.00
tblFireplaces	NumberWood	4.55	0.00
tblLandUse	LandUseSquareFeet	0.00	61,477.00
tblLandUse	LotAcreage	0.00	38.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	441.1
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSequestration	NumberOfNewTrees	0.00	6,000.00
tblSolidWaste	SolidWasteGenerationRate	0.83	0.00
tblSolidWaste	SolidWasteGenerationRate	0.95	0.00
tblSolidWaste	SolidWasteGenerationRate	69.00	0.00
tblSolidWaste	SolidWasteGenerationRate	78.00	0.00
tblSolidWaste	SolidWasteGenerationRate	9.30	0.00
tblSolidWaste	SolidWasteGenerationRate	10.50	0.00
tblSolidWaste	SolidWasteGenerationRate	1,293.55	1,314.00
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71

## Proposed Project Amendment Operational - San Diego County, Winter

tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	6.60	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CC_TL	0.00	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	6.60	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CNW_TL	0.00	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	14.70	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	CW_TL	0.00	9.71
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

## Proposed Project Amendment Operational - San Diego County, Winter

tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	0.00	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HO_TL	7.90	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	0.00	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HS_TL	7.10	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71
tblVehicleTrips	HW_TL	0.00	9.71

## Proposed Project Amendment Operational - San Diego County, Winter

tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	HW_TL	16.80	9.71
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	26.40
tblVehicleTrips	ST_TR	22.75	52.96
tblVehicleTrips	ST_TR	4.31	7.26
tblVehicleTrips	ST_TR	2.49	1.60
tblVehicleTrips	ST_TR	49.97	113.28
tblVehicleTrips	ST_TR	9.91	9.16
tblVehicleTrips	ST_TR	0.00	10.99
tblVehicleTrips	SU_TR	0.00	26.40
tblVehicleTrips	SU_TR	16.74	38.97

## Proposed Project Amendment Operational - San Diego County, Winter

tblVehicleTrips	SU_TR	3.43	5.78
tblVehicleTrips	SU_TR	0.73	1.60
tblVehicleTrips	SU_TR	25.24	57.22
tblVehicleTrips	SU_TR	8.62	7.97
tblVehicleTrips	SU_TR	0.00	9.56
tblVehicleTrips	WD_TR	33.33	26.40
tblVehicleTrips	WD_TR	1.89	4.40
tblVehicleTrips	WD_TR	4.18	7.04
tblVehicleTrips	WD_TR	15.43	12.00
tblVehicleTrips	WD_TR	6.83	1.60
tblVehicleTrips	WD_TR	42.70	96.80
tblVehicleTrips	WD_TR	9.52	8.80
tblVehicleTrips	WD_TR	0.00	10.56
tblWater	IndoorWaterUseRate	12,923,103.53	3,328,800.00
tblWater	IndoorWaterUseRate	0.00	4,525,088.00
tblWater	IndoorWaterUseRate	9,773,103.84	5,475,000.00
tblWater	IndoorWaterUseRate	1,739,815.03	3,225,049.00
tblWater	IndoorWaterUseRate	1,734,375.00	814,406.00
tblWater	IndoorWaterUseRate	740,725.21	879,559.00
tblWater	IndoorWaterUseRate	71,864,890.26	113,099,813.00
tblWater	IndoorWaterUseRate	0.00	2,372,500.00
tblWater	OutdoorWaterUseRate	824,878.95	3,328,800.00
tblWater	OutdoorWaterUseRate	13,225,442.98	13,575,263.00
tblWater	OutdoorWaterUseRate	6,161,304.60	5,475,000.00
tblWater	OutdoorWaterUseRate	4,473,810.08	3,225,049.00
tblWater	OutdoorWaterUseRate	0.00	814,406.00
tblWater	OutdoorWaterUseRate	453,992.87	879,559.00

## Proposed Project Amendment Operational - San Diego County, Winter

tblWater	OutdoorWaterUseRate	45,306,126.47	133,099,813.00
tblWater	OutdoorWaterUseRate	0.00	2,372,500.00
tblWoodstoves	NumberCatalytic	7.50	0.00
tblWoodstoves	NumberCatalytic	55.15	0.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	7.50	0.00
tblWoodstoves	NumberNoncatalytic	55.15	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

---

## Proposed Project Amendment Operational - San Diego County, Winter

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

[illegible]

### Mitigated Construction

[illegible]

## Proposed Project Amendment Operational - San Diego County, Winter

[illegible]

## Proposed Project Amendment Operational - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524
Energy	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273
Mobile	18.2257	76.0670	232.0629	0.9394	105.1808	0.6710	105.8518	28.1008	0.6236	28.7244		96,063.1003	96,063.1003	4.6339		96,178.9480
<b>Total</b>	<b>93.2425</b>	<b>85.1192</b>	<b>340.3973</b>	<b>0.9944</b>	<b>105.1808</b>	<b>1.8777</b>	<b>107.0585</b>	<b>28.1008</b>	<b>1.8303</b>	<b>29.9311</b>	<b>0.0000</b>	<b>106,159.5922</b>	<b>106,159.5922</b>	<b>5.0041</b>	<b>0.1817</b>	<b>106,338.8277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524
Energy	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273
Mobile	18.2257	76.0670	232.0629	0.9394	105.1808	0.6710	105.8518	28.1008	0.6236	28.7244		96,063.1003	96,063.1003	4.6339		96,178.9480
<b>Total</b>	<b>93.2425</b>	<b>85.1192</b>	<b>340.3973</b>	<b>0.9944</b>	<b>105.1808</b>	<b>1.8777</b>	<b>107.0585</b>	<b>28.1008</b>	<b>1.8303</b>	<b>29.9311</b>	<b>0.0000</b>	<b>106,159.5922</b>	<b>106,159.5922</b>	<b>5.0041</b>	<b>0.1817</b>	<b>106,338.8277</b>

## Proposed Project Amendment Operational - San Diego County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/29/2019	7/28/2021	5	500	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

## Proposed Project Amendment Operational - San Diego County, Winter

**3.1 Mitigation Measures Construction****3.2 Demolition - 2019****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Winter

**3.2 Demolition - 2019****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Winter

**3.2 Demolition - 2020****Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Winter

**3.2 Demolition - 2020****Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Winter

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

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

**Unmitigated Construction Off-Site**

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

## Proposed Project Amendment Operational - San Diego County, Winter

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

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

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

## Proposed Project Amendment Operational - San Diego County, Winter

## 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	lb/day										lb/day					
Mitigated	18.2257	76.0670	232.0629	0.9394	105.1808	0.6710	105.8518	28.1008	0.6236	28.7244		96,063.1003	96,063.1003	4.6339		96,178.9480
Unmitigated	18.2257	76.0670	232.0629	0.9394	105.1808	0.6710	105.8518	28.1008	0.6236	28.7244		96,063.1003	96,063.1003	4.6339		96,178.9480

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	253.44	253.44	253.44	895,768	895,768
City Park	48.84	587.86	432.57	638,533	638,533
Condo/Townhouse High Rise	1,056.00	1,089.00	867.00	3,653,601	3,653,601
Elementary School	720.00	0.00	0.00	1,817,712	1,817,712
Industrial Park	12.00	12.00	12.00	42,413	42,413
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	968.00	1,132.80	572.20	3,304,701	3,304,701
Single Family Housing	9,706.40	10,103.48	8790.91	34,044,933	34,044,933
User Defined Residential	137.28	142.87	124.28	481,466	481,466
Total	12,901.96	13,321.45	11,052.40	44,879,129	44,879,129

## 4.3 Trip Type Information

## Proposed Project Amendment Operational - San Diego County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.71	9.71	9.71	0.00	81.00	19.00	100	0	0
City Park	9.71	9.71	9.71	33.00	48.00	19.00	100	0	0
Condo/Townhouse High Rise	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0
Elementary School	9.71	9.71	9.71	65.00	30.00	5.00	100	0	0
Industrial Park	9.71	9.71	9.71	59.00	28.00	13.00	100	0	0
Parking Lot	9.71	9.71	9.71	0.00	0.00	0.00	100	0	0
Regional Shopping Center	9.71	9.71	9.71	16.30	64.70	19.00	100	0	0
Single Family Housing	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0
User Defined Residential	9.71	9.71	9.71	41.60	18.80	39.60	100	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
City Park	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Condo/Townhouse High Rise	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Elementary School	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Industrial Park	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Parking Lot	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Regional Shopping Center	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
Single Family Housing	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837
User Defined Residential	0.614571	0.037691	0.177673	0.098627	0.012633	0.005296	0.017422	0.025155	0.001929	0.001711	0.005676	0.000778	0.000837

## 5.0 Energy Detail

---

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

## Proposed Project Amendment Operational - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273
NaturalGas Unmitigated	0.9083	7.8499	3.9506	0.0495		0.6275	0.6275		0.6275	0.6275		9,908.3470	9,908.3470	0.1899	0.1817	9,967.2273

## Proposed Project Amendment Operational - San Diego County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	12750.4	0.1375	1.2500	1.0500	7.5000e-003		0.0950	0.0950		0.0950	0.0950		1,500.0421	1,500.0421	0.0288	0.0275	1,508.9561
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	1.7589	2.0000e-005	1.6000e-004	7.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.2069	0.2069	0.0000	0.0000	0.2082
Elementary School	883.726	9.5300e-003	0.0866	0.0728	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003		103.9678	103.9678	1.9900e-003	1.9100e-003	104.5856
Industrial Park	382.007	4.1200e-003	0.0375	0.0315	2.2000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		44.9420	44.9420	8.6000e-004	8.2000e-004	45.2091
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	57.9726	6.3000e-004	5.6800e-003	4.7700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8203	6.8203	1.3000e-004	1.3000e-004	6.8608
Single Family Housing	69201.9	0.7463	6.3774	2.7138	0.0407		0.5156	0.5156		0.5156	0.5156		8,141.4021	8,141.4021	0.1560	0.1493	8,189.7824
User Defined Residential	943.209	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003		110.9657	110.9657	2.1300e-003	2.0300e-003	111.6252
<b>Total</b>		<b>0.9083</b>	<b>7.8499</b>	<b>3.9506</b>	<b>0.0495</b>		<b>0.6275</b>	<b>0.6275</b>		<b>0.6275</b>	<b>0.6275</b>		<b>9,908.3470</b>	<b>9,908.3470</b>	<b>0.1899</b>	<b>0.1817</b>	<b>9,967.2273</b>

## Proposed Project Amendment Operational - San Diego County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	12.7504	0.1375	1.2500	1.0500	7.5000e-003		0.0950	0.0950		0.0950	0.0950		1,500.0421	1,500.0421	0.0288	0.0275	1,508.9561
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	0.0017589	2.0000e-005	1.6000e-004	7.0000e-005	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		0.2069	0.2069	0.0000	0.0000	0.2082
Elementary School	0.883726	9.5300e-003	0.0866	0.0728	5.2000e-004		6.5800e-003	6.5800e-003		6.5800e-003	6.5800e-003		103.9678	103.9678	1.9900e-003	1.9100e-003	104.5856
Industrial Park	0.382007	4.1200e-003	0.0375	0.0315	2.2000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		44.9420	44.9420	8.6000e-004	8.2000e-004	45.2091
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0579726	6.3000e-004	5.6800e-003	4.7700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8203	6.8203	1.3000e-004	1.3000e-004	6.8608
Single Family Housing	69.2019	0.7463	6.3774	2.7138	0.0407		0.5156	0.5156		0.5156	0.5156		8,141.4021	8,141.4021	0.1560	0.1493	8,189.7824
User Defined Residential	0.943209	0.0102	0.0925	0.0777	5.5000e-004		7.0300e-003	7.0300e-003		7.0300e-003	7.0300e-003		110.9657	110.9657	2.1300e-003	2.0300e-003	111.6252
<b>Total</b>		<b>0.9083</b>	<b>7.8499</b>	<b>3.9506</b>	<b>0.0495</b>		<b>0.6275</b>	<b>0.6275</b>		<b>0.6275</b>	<b>0.6275</b>		<b>9,908.3470</b>	<b>9,908.3470</b>	<b>0.1899</b>	<b>0.1817</b>	<b>9,967.2273</b>

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

## Proposed Project Amendment Operational - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524
Unmitigated	74.1086	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791	0.0000	188.1450	188.1450	0.1803	0.0000	192.6524

## 6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.2357					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	57.7366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1363	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791		188.1450	188.1450	0.1803		192.6524
<b>Total</b>	<b>74.1086</b>	<b>1.2023</b>	<b>104.3838</b>	<b>5.5200e-003</b>		<b>0.5791</b>	<b>0.5791</b>		<b>0.5791</b>	<b>0.5791</b>	<b>0.0000</b>	<b>188.1450</b>	<b>188.1450</b>	<b>0.1803</b>	<b>0.0000</b>	<b>192.6524</b>

## Proposed Project Amendment Operational - San Diego County, Winter

**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	13.2357					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	57.7366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1363	1.2023	104.3838	5.5200e-003		0.5791	0.5791		0.5791	0.5791		188.1450	188.1450	0.1803		192.6524
<b>Total</b>	<b>74.1086</b>	<b>1.2023</b>	<b>104.3838</b>	<b>5.5200e-003</b>		<b>0.5791</b>	<b>0.5791</b>		<b>0.5791</b>	<b>0.5791</b>	<b>0.0000</b>	<b>188.1450</b>	<b>188.1450</b>	<b>0.1803</b>	<b>0.0000</b>	<b>192.6524</b>

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

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

**10.0 Stationary Equipment**

## Proposed Project Amendment Operational - San Diego County, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

