

APPENDIX G

Air Quality and Greenhouse Gas Emissions Analysis Technical Report

**Air Quality and Greenhouse Gas Emissions
Analysis Technical Report
for the Campo Wind Project with Boulder Brush Facilities
County of San Diego, California**

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
BIA	U.S. Department of the Interior, Bureau of Indian Affairs
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH ₄	methane
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
EPA	U.S. Environmental Protection Agency
gen-tie	generator lead lines
GHG	greenhouse gas
GWP	global warming potential
HAP	hazardous air pollutant
HFC	hydrofluorocarbon
I	Interstate
IPCC	Intergovernmental Panel on Climate Change
kV	kilovolts
MMT	million metric ton
MT	metric tons
MW	megawatt
MWh	megawatt-hour
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
O&M	operations and maintenance
PFC	perfluorocarbon
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppb	parts per billion
ppm	parts per million
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric
SF ₆	sulfur hexafluoride

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Acronym/Abbreviation	Definition
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SR	State Route
TAC	toxic air contaminants
TIP	Tribal Implementation Plan
VOC	volatile organic compound

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EXECUTIVE SUMMARY

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with approval of a lease and associated implementation of the proposed Campo Wind Project with Boulder Brush Facilities (Project). The report is prepared for the U.S. Department of the Interior, Bureau of Indian Affairs (BIA) as part of an environmental review required by the National Environmental Policy Act (NEPA) with the BIA as the lead NEPA agency, in cooperation with the Campo Band of Diegueño Mission Indians (Tribe)..

Project Overview

The Project is located in southeastern San Diego County (County) on the Campo Indian Reservation (Reservation), adjacent to the community of Live Oak Springs, and on private lands in the vicinity of the communities of Campo and Jacumba.

The Project would involve construction and operation of an up to 252 megawatt (MW) wind turbine power-generating facility and associated infrastructure to provide site access and connection to the existing San Diego Gas & Electric (SDG&E) electricity transmission grid. The Project would include on-Reservation facilities (Campo Wind Facilities) and facilities on private, off-Reservation lands (Boulder Brush Facilities). Additional details regarding the Project components and construction can be found in Appendix B, Project Description Details, to the Draft Environmental Impact Statement (EIS). Eventual decommissioning would occur at the end of the Project's useful life cycle except for those facilities that are owned and operated by SDG&E.

There are three alternatives for the Project:

- Alternative 1: Full Build-Out Alternative – Approximately 252 MW (Alternative 1)
- Alternative 2: Reduced Intensity Alternative – Approximately 202 MW (Alternative 2)
- No Action Alternative

This analysis focuses on Alternative 1 because its air and GHG emissions would be more than those under Alternative 2 and the No Action Alternative.

The Project site is located within the San Diego Air Basin (SDAB) and is within the boundaries of the San Diego Air Pollution Control District (SDAPCD). Construction and operational criteria air pollutant and GHG emissions were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 (CAPCOA 2017).

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Air Quality

The air quality impact analysis evaluated the potential for adverse impacts to air quality due to construction and operational emissions resulting from the Project. Impacts were evaluated for their significance, in part, based on the federal *de minimis* thresholds. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O₃), nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Because the Project area is located within the SDAB, which is in nonattainment for O₃ and is a maintenance area for CO, conformity determination requirements apply. Pollutants that are evaluated include volatile organic compounds (VOCs) (also referred to as reactive organic gases), oxides of nitrogen (NO_x), and CO. VOCs and NO_x are important because they are precursors to O₃.

Construction Criteria Air Pollutant Emissions

Annual Project construction emissions would not exceed federal *de minimis* emissions thresholds for VOC, NO_x, and CO during construction. This is not considered an adverse effect.

Operational Criteria Air Pollutant Emissions

Annual Project operational emissions would not exceed the federal *de minimis* emissions thresholds for VOCs, NO_x, and CO during operations. This is not considered an adverse effect.

Greenhouse Gas Emissions

A project has the potential to contribute to global climate change and its associated impacts through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). GHG emissions are measured in metric tons of CO₂ equivalent (MT CO₂e), which account for weighted global warming potential (GWP) factors for CH₄ and N₂O.

Estimated total GHG emissions during construction would be approximately 2,433 MT CO₂e in 2019 and 3,748 MT CO₂e in 2020, for a total of 6,181 MT CO₂e over the construction period. The estimated total one-time loss of sequestered carbon from land use conversion for the Project would be 13,575 MT CO₂. Estimated annual Project-generated GHG emissions would be approximately 199 MT CO₂e per year as a result of Project operations only in 2020. While there are no specific requirements for evaluating GHG emissions under NEPA, estimated Project-generated GHG emissions are included in this analysis for the purpose of disclosure.

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1 INTRODUCTION

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with approval of a lease and associated implementation of the proposed Campo Wind Project with Boulder Brush Facilities (Project). The report is prepared for the U.S. Department of the Interior, Bureau of Indian Affairs (BIA) as part of an environmental review required by the National Environmental Policy Act (NEPA) with the BIA as the lead NEPA agency, in cooperation with the Campo Band of Diegueño Mission Indians (Tribe).

This introductory chapter provides a description of the Project and the Project location. Chapter 2, Air Quality, describes the air quality-related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology, and presents an air quality impact analysis. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and similarly describes the GHG emissions-related environmental setting, regulatory setting, existing climate change conditions, and thresholds and analysis methodology, and presents a GHG emissions impact analysis. Chapter 4, References Cited, includes a list of the references cited. Chapter 5, List of Preparers, includes a list of those who prepared this technical report.

1.2 Regional and Local Setting

The Project site is located in the southeastern portion of the County primarily on the Campo Indian Reservation (Reservation) but also on private lands adjacent to the community of Live Oak Springs, and in the vicinity of the communities of Campo and Jacumba (see Draft Environmental Impact Statement (EIS), Figure 1-1). The Project site is located on the Reservation and on private lands, which extends from the Manzanita Indian Reservation boundary to the north, to 0.25 mile north of the California/Mexico international border to the south. Interstate (I) 8 and State Route (SR) 94 across the Reservation east to west, and Church Road connects I-8 to SR-94 on the Reservation. Old Highway 80 provides access to Live Oak Springs from I-8 and SR-94.

1.3 Project Description and Alternatives

The Project would involve construction and operation of an up to approximately 252 megawatt (MW) wind turbine power-generating facility and associated infrastructure, as well as associated facilities and infrastructure on adjacent private lands Off-Reservation (Boulder Brush Facilities) (see Draft EIS, Figure 1-2). Additional details regarding the Project components and construction can be found in Appendix B, Project Details, to the Draft EIS. Eventual decommissioning would occur at the end of the Project's useful life cycle except for the components owned and operated by SDG&E.

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There are three alternatives for the Project, including a “no-build” alternative. The Project O&M emissions would generally be similar for all build alternatives. The development footprint of the Project, under either of the build alternatives, would be confined to the minimal area necessary for construction and safe and reliable operation. Development of new access roads would be limited to the maximum extent possible. Table 1 provides a summary of the components common to all build alternatives.

Table 1
Summary of Project Components

Project Component	Description
Access roads	Approximately 15 miles of new roads that would be up to 24 feet wide.
Electrical Collection and Communication System	Approximately 28 miles of underground cables.
Collector substation	A collector substation to collect the energy generated and transform it from 34.5 kilovolts (kV) to 230 kV. This collector substation would be in a yard approximately 1 acre in size.
Gen-tie lines and Poles, On-Reservation	Up to 5 miles of 230 kV overhead gen-tie line and associated pole structures.
Operations and maintenance (O&M) facility	A 5,000-square-foot O&M facility and 1.5-acre parking and equipment storage area.
Meteorological towers	Up to three meteorological towers occupying 0.1 acres each and up to six temporary meteorological towers..
Water collection	Water collection by truck from Padre Dam, at approximately 24 million gallons during the entire construction period. ^a
Temporary batch plant	A temporary concrete batch plant for the duration of construction occupying approximately 3.7 acres.
Temporary staging and laydown areas	During construction, approximately 20-acre temporary staging areas and an approximately 100-foot by 200-foot laydown area at each turbine site, with an adjacent blade-laydown area of approximately 10,000 square feet.

^a Padre Dam Municipal Water District is used here as the water source (other options include on site and Jacumba Community Services District) as it is the farthest away of the possible water sources and thus provides a conservative analysis of water trucking for air quality purposes.

1.4 Project Design Features

The following project design features (PDFs) will be included as part of the Project.

PDF-AQ-1 Prior to the Tribe’s approval of any construction-related permits, the lessee or its designee shall place the following requirements on all plans. These requirements shall be implemented during each construction phase to minimize VOC, CO, and NO_x emissions:

- a. Prior to the commencement of any construction activities, the lessee or its designee shall provide evidence to the Tribe 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 Final. An exemption from these requirements may be granted by the Tribe in the event that the developer

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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 Tribe, the developer 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 Final equipment could not be located within the San Diego region.

- b. Vehicles in loading and unloading queues shall not idle for more than 5 minutes and shall turn their engines off when not in use to reduce vehicle emissions.
- c. All construction equipment shall be properly tuned and maintained in accordance with manufacturer's specifications.
- d. The use of electrical or natural gas-powered construction equipment shall be employed where feasible, including forklifts and other comparable equipment types.

PDF-AQ-2 Fugitive Dust Control. The developer or its designee shall implement the following measures to minimize fugitive dust (PM₁₀ and PM_{2.5}):

- a. Water or other approved dust control non-toxic agent shall be used on the grading areas at least three times daily.
- b. All main roadways to be paved shall be constructed and paved as early as possible in the construction process.
- c. Grading areas shall be stabilized as quickly as possible.
- d. 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.
- e. Wheel washers shall be installed adjacent to the apron for tire inspection and washing prior to vehicle entry on public roads.
- f. 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.
- g. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.
- h. Unpaved construction site egress points shall be graveled to prevent track-out.

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- i. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.
- j. Transported material in haul trucks shall be watered or treated.
- k. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.
- l. On-site stockpiles of excavated material shall be covered.
- m. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.
- n. 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-3 The following measures shall be included as part of the Project's Fugitive Dust Control Plan to reduce emissions associated with blasting and rock-crushing activities:

- a. During blasting activities, the construction contractor shall implement measures to control fugitive dust, including exhaust ventilation, blasting cabinets and enclosures, vacuum blasters, drapes, water curtains, or wet blasting. Watering methods, such as water sprays and water applications, shall be implemented during blasting, rock crushing, cutting, chipping, sawing, or any activity that would release dust particles to reduce fugitive dust emissions.
- 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 a 3-minute period in any period of 60 consecutive minutes. A qualified opacity observer shall monitor opacity from crushing activities once every 30 days while crushers are employed on site. Water sprayers, conveyor belt enclosures, or other mechanisms shall be employed to reduce fugitive dust generated during transfer and conveyance of crush material.

PDF-AQ-4 All Project phases involving blasting shall conform to the following requirements:

- Each blasting event shall employ approximately 1.2 tons of ammonium nitrate/fuel oil (ANFO).
- Blasting activities shall be restricted to not more than two blasts per day.
- All blasting shall be performed by a blast contractor and blasting personnel licensed to operate in the County.

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2 AIR QUALITY

2.1 Existing Conditions

The Project site is located within the SDAB. The SDAB, one of 15 air basins that geographically divide California, lies in the southwest corner of California. The SDAB comprises the entire San Diego region and covers approximately 4,260 square miles.

2.1.1 Meteorological and Topographical Conditions

The primary factors that determine air quality are the locations of air pollutant sources and the amount of pollutants emitted. Meteorological and topographical conditions, however, are also important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of air pollutants. Meteorological and topographical factors that affect air quality in the SDAB are described below.¹

Regional Climate and Meteorological Conditions

The climate of the San Diego region, as in most of Southern California, is influenced by the strength and position of the semi-permanent high-pressure system over the Pacific Ocean, known as the Pacific High. This high-pressure ridge over the West Coast often creates a pattern of late-night and early-morning low clouds, hazy afternoon sunshine, daytime onshore breezes, and little temperature variation year-round. The SDAB is characterized as a Mediterranean climate with dry, warm summers and mild, occasionally wet winters. Average temperature ranges (in °F) from the mid-40s to the high 90s, with an average of 201 days warmer than 70°F. The SDAB experiences 9 to 13 inches of rainfall annually, with most of the region's precipitation falling from November through March, with infrequent (approximately 10%) precipitation during the summer. El Niño and La Niña patterns have large effects on the annual rainfall received in San Diego, where San Diego receives less than normal rainfall during La Niña years.

The interaction of ocean, land, and the Pacific High maintains clear skies for much of the year and influences the direction of prevailing winds (westerly to northwesterly). The winds tend to blow onshore in the day and offshore at night. Local terrain is often the dominant factor inland, and

¹ The discussion of meteorological and topographical conditions of the SDAB is based on information provided in the SDAPCD 2016 Monitoring Plan (SDAPCD 2017a), the County of San Diego Guidelines for Determining Significance – Air Quality (County of San Diego 2007), the County of San Diego General Plan Update EIR (County of San Diego 2011b), and the CARB Recommended Area Designation for the 2010 Federal Sulfur Dioxide Standard (CARB 2011).

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winds in inland mountainous areas tend to blow through the valleys during the day and down the hills and valleys at night.

The favorable climate of San Diego also works to create air pollution problems. Sinking, or subsiding air from the Pacific High, creates a temperature inversion known as a subsidence inversion, which acts as a “lid” to vertical dispersion of pollutants. Weak summertime pressure gradients further limit horizontal dispersion of pollutants in the mixed layer below the subsidence inversion. Poorly dispersed anthropogenic emissions combined with strong sunshine leads to photochemical reactions that result in the creation of ozone (O₃) at this surface layer. In addition, light winds during the summer further limit ventilation.

In the fall months, the SDAB is often impacted by Santa Ana winds, which are the result of a high-pressure system over the Nevada and Utah regions that overcomes the westerly wind pattern and forces hot, dry winds from the east to the Pacific Ocean. The Santa Ana winds are powerful and can blow the SDAB’s pollutants out to sea. However, a weak Santa Ana can transport air pollution from the South Coast Air Basin and greatly increase O₃ concentrations in the San Diego area.

Atmospheric oscillation results in the offshore transport of air from the Los Angeles region to the County of San Diego. This often produces high O₃ concentrations, as measured at air pollutant monitoring stations within the County. The transport of air pollutants from Los Angeles to San Diego can also occur within the stable layer of the elevated subsidence inversion, where high levels of O₃ are transported.

Site-Specific Meteorological Conditions

The local climate in the southwestern County is characterized as semi-arid with consistently mild, warmer temperatures throughout the year. The average summertime high temperature in the region is approximately 74°F, with highs approaching 76°F in August on average. The average wintertime low temperature is approximately 49°F, although record lows have approached 48°F in January. Average precipitation in the local area is approximately 10 inches per year, with the bulk of precipitation falling between December and March (WRCC 2017).

Topographical Conditions

Topography in the San Diego region varies greatly, from beaches in the west to mountains and desert in the east; much of the topography in between consists of mesa tops intersected by canyon areas. Along with local meteorology, topography influences the dispersal and movement of pollutants in the SDAB. Mountains to the east prohibit dispersal of pollutants in that direction and help trap pollutants in inversion layers.

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The topography of the SDAB also drives pollutant levels, and the SDAB is classified as a “transport recipient,” whereby pollutants are transported from the South Coast Air Basin to the north and, when the wind shifts direction, from Tijuana, Mexico, to the south.

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O₃, nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.² In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone. O₃ is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun’s energy and O₃ precursors. These precursors are mainly oxides of nitrogen (NO_x) and volatile organic compounds (VOCs). The maximum effects of precursor emissions on O₃ concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O₃ formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O₃ exists in the upper atmosphere O₃ layer (stratospheric ozone) and at the Earth’s surface in the troposphere (ozone).³ The O₃ that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O₃ is a harmful air pollutant that causes numerous adverse health effects and is thus considered “bad” O₃. Stratospheric, or “good,” O₃ occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light

² The descriptions of each of the criteria air pollutants and associated health effects are based on the EPA’s Criteria Air Pollutants (2016a) and the CARB Glossary of Air Pollutant Terms (2016a).

³ The troposphere is the layer of the Earth’s atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

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(i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O₃ layer, plant and animal life would be seriously harmed.

O₃ in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013). These health problems are particularly acute in sensitive receptors such as the sick, the elderly, and young children.

Nitrogen Dioxide. NO₂ is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO₂ in the atmosphere is the oxidation of the primary air pollutant nitric oxide, which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O₃. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO₂ can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016a).

Carbon Monoxide. CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, such as the Project location, automobile exhaust accounts for the majority of CO emissions. CO is a nonreactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions.

Sulfur Dioxide. SO₂ is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO₂ are coal and oil used in power plants and industries; as such, the highest levels of SO₂ are generally found near large industrial complexes.

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In recent years, SO₂ concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO₂ and limits on the sulfur content of fuels.

SO₂ is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter, SO₂ can injure lung tissue and reduce visibility and the level of sunlight. SO₂ can also yellow plant leaves and erode iron and steel.

Particulate Matter. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. Coarse particulate matter (PM₁₀) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM₁₀ include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter (PM_{2.5}) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. PM_{2.5} results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, PM_{2.5} can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs.

PM_{2.5} and PM₁₀ pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM_{2.5} and PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM₁₀ tends to collect in the upper portion of the respiratory system, PM_{2.5} is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

People with influenza, people with chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death as a result of breathing particulate matter. People with bronchitis can expect aggravated symptoms from breathing in particulate matter. Children may experience a decline in lung function due to breathing in PM₁₀ and PM_{2.5} (EPA 2009).

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Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Volatile Organic Compounds. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O₃ are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O₃ and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group.

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 *Criteria Air Pollutants*

The federal Clean Air Act (CAA), passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. EPA is responsible for implementing most aspects of the CAA, including setting the National Ambient Air Quality Standards (NAAQS) for major air pollutants, setting hazardous air pollutant standards, approving state attainment plans, setting motor vehicle emissions standards, setting stationary source emissions standards and approving permits, providing acid rain control measures, implementing stratospheric O₃ protection, and providing enforcement provisions.

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NAAQS are established by the EPA for “criteria pollutants” under the CAA, which are O₃, CO, NO₂, SO₂, PM₁₀, PM_{2.5}, and lead. The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The CAA requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a State Implementation Plan (SIP) that demonstrates how those areas will attain the standards within mandated timeframes. The NAAQS is presented in Table 2.

Table 2
National Ambient Air Quality Standards

Pollutant	Averaging Time	National Standards ^a	
		Primary ^{b,c}	Secondary ^b
O ₃	8 hours	0.070 ppm (137 µg/m ³) ^d	Same as Primary Standard ^d
NO ₂ ^e	1 hour	0.100 ppm (188 µg/m ³)	Same as Primary Standard
	Annual Arithmetic Mean	0.053 ppm (100 µg/m ³)	
CO	1 hour	35 ppm (40 mg/m ³)	None
	8 hours	9 ppm (10 mg/m ³)	
SO ₂ ^f	1 hour	0.075 ppm (196 µg/m ³)	—
	3 hours	—	0.5 ppm (1,300 µg/m ³)
	24 hours	0.14 ppm (for certain areas) ^e	—
	Annual	0.030 ppm (for certain areas) ^e	—
PM ₁₀ ^g	24 hours	150 µg/m ³	Same as Primary Standard
PM _{2.5} ^g	24 hours	35 µg/m ³	Same as Primary Standard
	Annual Arithmetic Mean	12.0 µg/m ³	15.0 µg/m ³
Lead ^{h,i}	Calendar Quarter	1.5 µg/m ³ (for certain areas) ^h	Same as Primary Standard
	Rolling 3-Month Average	0.15 µg/m ³	

Source: CARB 2016a.

Notes: µg/m³ = micrograms per cubic meter; mg/m³ = milligrams per cubic meter; ppm = parts per million by volume; O₃ = ozone; NO₂ = nitrogen dioxide; CO = carbon monoxide; SO₂ = sulfur dioxide; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

^a National standards (other than O₃, NO₂, SO₂, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O₃ standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For PM_{2.5}, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

^b On June 2, 2010, a new 1-hour SO₂ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 parts per billion (ppb). The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

^c On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

^d On October 1, 2015, the national 8-hour O₃ primary and secondary standards were lowered from 0.075 to 0.070 ppm.

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- ^e To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- ^f On June 2, 2010, a new 1-hour SO₂ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
- ^g On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.
- ^h CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- ⁱ The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Federal General Conformity Rule

The portion of the Project under federal control is subject to the General Conformity Rule (40 CFR, Part 51, Subpart W). The General Conformity Rule implements Section 176(c) of the federal CAA, which requires that a federal agency ensure conformity with an approved SIP for air emissions generated by an agency action. Conformity determinations for federal actions are required for each pollutant where the total of direct and indirect emissions in a nonattainment or maintenance area caused by a federal action equals or exceeds any of the specified annual rates, referred to as *de minimis* thresholds. The Project area is located within the SDAB, which is in nonattainment for O₃ and a maintenance area for CO; therefore, the *de minimis* thresholds for VOCs, NO_x, and CO apply. The relevant *de minimis* thresholds for SDAB are identified in Table 3. If a Project's emissions exceed the *de minimis* thresholds for CO, NO_x, or VOCs, the Project would be considered to have an adverse effect related to O₃.

Table 3
Federal De Minimis Levels for San Diego Air Basin

Pollutant	Threshold (Tons per Year)
VOC	100
NO _x	100
CO	100

Source: 40 CFR Part 93.153(b)(2)

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide.

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2.2.1.2 Hazardous Air Pollutants

The 1977 federal CAA amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants to protect public health and welfare. Hazardous air pollutants (HAPs) include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA amendments, which expanded the control program for hazardous air pollutants, 187 substances and chemical families were identified as hazardous air pollutants.

2.2.2 Tribal Regulations

In the 1990 revision of the CAA, Congress recognized that Native American tribes have the authority to implement air pollution control programs. The EPA's Tribal Authority Rule gives tribes the ability to develop air quality management programs, write rules to reduce air pollution, and implement and enforce their rules within tribal lands. While state and local agencies are responsible for all CAA requirements, tribes may develop and implement only those parts of the CAA that are appropriate for their lands. The EPA provides technical assistance and resources to help tribes build their program capacity. The EPA also implements the CAA requirements on tribal lands through programs such as the Federal Rules for Reservations, Title V permits, and air toxics rules.

Initially, the General Conformity Rule of 1993 did not specifically identify the roles of Native American tribes in the General Conformity process or the connection between the regulations and Tribal Implementation Plans (TIPs). In the revised 2011 regulations, the EPA specifically identified tribal agencies as stakeholders in the conformity process to ensure that in a nonattainment or maintenance area, federal actions conform to the air quality plans established in the applicable SIP or TIP. This includes requiring specific notification for any federally recognized tribes in the nonattainment or maintenance area where the action is occurring. In addition, the revised regulations also clarify that federal actions must conform to any applicable TIP. The Reservation is in attainment for all criteria pollutants. The Tribe and the Reservation are not subject to the SIP.

The General Conformity Rule plays an important role in helping tribes improve air quality in those areas that do not meet NAAQS. Under the General Conformity Rule, federal agencies must work with state, tribal, and local governments in a nonattainment or maintenance area to ensure that federal actions conform to the air quality plan established in the applicable SIP or TIP.

2.2.3 State

State regulations are applicable to the Boulder Brush Facilities located within San Diego County. The Tribe and the Reservation are not subject to state regulations.

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California Clean Air Act

The California CAA was adopted in 1988 and establishes the state's air quality goals, planning mechanisms, regulatory strategies, and standards of progress. Under the California CAA, the task of air quality management and regulation has been legislatively granted to the California Air Resources Board (CARB), with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB is responsible for ensuring implementation of the California CAA, responding to the federal CAA, and regulating emissions from motor vehicles and consumer products. Pursuant to the authority granted to it, CARB has established the California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS.

Toxic Air Contaminants

California regulates toxic air contaminants (TACs) primarily through the Tanner Air Toxics Act (Assembly Bill (AB) 1807) and the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified over 21 TACs and has adopted the EPA's list of HAPs as TACs. Once a TAC is identified, CARB then adopts an airborne toxics control measure for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate best available control technology for toxics to minimize emissions. None of the TACs identified by CARB have a safe threshold.

Under the Air Toxics "Hot Spots" Act, existing facilities that emit air pollutants above specified levels were required to (1) prepare a TAC emission inventory plan and report, (2) prepare a risk assessment if TAC emissions were significant, (3) notify the public of significant risk levels, and (4) if health impacts were above specified levels, prepare and implement risk reduction measures.

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any of those persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

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2.3 Regional and Local Air Quality Conditions

2.3.1 San Diego Air Basin Attainment Designation

Pursuant to the 1990 CAA amendments, the EPA classifies air basins (or portions thereof) as “attainment” or “nonattainment” for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as “attainment” for that pollutant. If an area exceeds the standard, the area is classified as “nonattainment” for that pollutant. As previously discussed, these standards are set by the EPA for the maximum level of a given air pollutant that can exist in the outdoor air without causing unacceptable effects on human health or the public welfare. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as “unclassified” or “unclassifiable.” The designation of “unclassifiable/ attainment” means that the area meets the standard or is expected to meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The federal attainment classifications for the criteria pollutants are listed in Table 4.

Table 4
San Diego Air Basin Attainment Classification

Pollutant	Federal Designation
O ₃ (1-hour)	Attainment ^a
O ₃ (8-hour – 1997) (8-hour – 2008)	Attainment (Maintenance) Nonattainment (Moderate)
NO ₂	Unclassifiable/Attainment
CO	Attainment (Maintenance)
SO ₂	Unclassifiable/Attainment
PM ₁₀	Unclassifiable/Attainment
PM _{2.5}	Unclassifiable/Attainment
Lead	Unclassifiable/Attainment
Sulfates	No federal standard
Hydrogen sulfide	No federal standard
Visibility-reducing particles	No federal standard
Vinyl chloride	No federal standard

Sources: EPA 2016a (federal); CARB 2016d (state).

Notes:

Bold text = not in attainment; Attainment = meets the standards; Attainment (Maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/Attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

^a The federal 1-hour standard of 0.12 parts per million was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans.

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The SDAB is designated as an attainment area for the 1997 8-hour O₃ NAAQS and as a nonattainment area for the 2008 8-hour O₃ NAAQS. The portion of the SDAB where the Project area is located is designated as attainment or unclassifiable for all other criteria pollutants under the NAAQS.

2.3.2 Air Quality Monitoring Data

The SDAPCD operates a network of 11 ambient air monitoring stations throughout the County that measure ambient concentrations of pollutants and determine whether the ambient air quality meets the CAAQS and NAAQS. Due to its proximity to the Project area, similar geographic and climactic characteristics, and available measured ambient concentrations of pollutants, the Alpine–Victoria Drive monitoring station monitors concentrations for pollutants and is considered most representative of the Project area. The Alpine–Victoria Drive monitoring station is located approximately 24 miles northwest of the Project area. Pollutant concentrations of CO, SO₂, PM₁₀, and PM_{2.5} were not measured at the Alpine–Victoria Drive monitoring station; therefore, the measurements from the nearest monitoring station that includes those pollutants, the El Cajon Lexington Elementary monitoring station, are presented below. The El Cajon Lexington Elementary monitoring station is located approximately 33 miles west of the Project area. Ambient concentrations of pollutants from 2015 through 2017 are presented in Table 5, Local Ambient Air Quality Data. The number of days exceeding the NAAQS and CAAQS is also shown in Table 5.

Table 5
Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2015	2016	2017	2015	2016	2017
Ozone (O ₃)										
Alpine-Victoria Drive	ppm	Maximum 1-hour concentration	State	0.09	0.097	0.104	0.109	2	6	11
	ppm	Maximum 8-hour concentration	State	0.070	0.084	0.091	0.095	30	29	48
			Federal	0.070	0.084	0.091	0.095	30	29	48
Nitrogen Dioxide (NO ₂)										
Alpine-Victoria Drive	ppm	Maximum 1-hour concentration	State	0.18	0.048	0.033	0.028	0	0	0
			Federal	0.100	0.048	0.033	0.028	0	0	0
	ppm	Annual concentration	State	0.030	0.005	0.004	0.004	0	0	0
			Federal	0.053	0.005	0.004	0.004	0	0	0

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Table 5
Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2015	2016	2017	2015	2016	2017
Carbon Monoxide (CO)										
El Cajon-Lexington Elementary	ppm	Maximum 1-hour concentration	State	20	—	1.5	1.5	—	0	0
			Federal	35	—	1.5	1.5	—	0	0
	ppm	Maximum 8-hour concentration	State	9.0	—	1.3	1.4	—	0	0
			Federal	9	—	1.3	1.4	—	0	0
Sulfur Dioxide (SO ₂)										
El Cajon-Lexington Elementary	ppm	Maximum 1-hour concentration	Federal	0.075	0.001	0.006	0.001	0	0	0
	ppm	Maximum 24-hour concentration	Federal	0.140	0.0004	0.0002	0.0004	0	0	0
	ppm	Annual concentration	Federal	0.030	0.0001	0.00008	0.0001	0	0	0
Coarse Particulate Matter (PM ₁₀) ^a										
El Cajon-Lexington Elementary	µg/m ³	Maximum 24-hour concentration	State	50	—	43	50	—	0	0
			Federal	150	—	43	50	—	0	0
	µg/m ³	Annual concentration	State	20	—	—	—	—	—	—
Fine Particulate Matter (PM _{2.5}) ^a										
El Cajon-Lexington Elementary	µg/m ³	Maximum 24-hour concentration	Federal	35	—	23.9	31.8	—	0	0
	µg/m ³	Annual concentration	State	12	—	9.9	9.6	—	0	0
			Federal	12.0	—	9.9	9.6	—	0	0

Sources: CARB 2018b; EPA 2018a.

Notes: — = not available or applicable; µg/m³ = micrograms per cubic meter; ppm = parts per million

Data taken from CARB iADAM (<http://www.arb.ca.gov/adam>) and EPA AirData (<http://www.epa.gov/airdata/>) represent the highest concentrations experienced over a given year.

Exceedances of federal and state standards are only shown for O₃ and particulate matter. Daily exceedances for particulate matter are estimated days because PM₁₀ and PM_{2.5} are not monitored daily. All other criteria pollutants did not exceed federal or state standards during the years shown. There is no federal standard for 1-hour O₃, annual PM₁₀, or 24-hour SO₂, nor is there a state 24-hour standard for PM_{2.5}.

Alpine-Victoria Drive monitoring station is located at 2300 Victoria Drive, Alpine, California.

El Cajon – Lexington Elementary School monitoring station is located at 533 First Street, El Cajon, California.

^a Measurements of PM₁₀ and PM_{2.5} are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

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2.4 Evaluation Criteria and Methodology

2.4.1 Impact Indicators

As part of its NEPA review, the BIA considers whether the Project would be in conformance with the CAA; this is known as a General Conformity Determination. Because the Project area is located within the SDAB, which is in nonattainment for O₃ and a maintenance area for CO, conformity determination requirements apply. As such, a quantitative evaluation of construction and operational emissions was conducted and evaluated against the federal *de minimis* thresholds listed in Table 2 to determine whether implementation of the Project would result in an adverse effect on air quality. If a Project's emissions would exceed the *de minimis* thresholds for CO, NO_x, or VOCs (100 tons per year), the Project would be considered to have an adverse impact related to O₃.

2.4.2 Approach and Methodology

2.4.2.1 Construction Emissions

Emissions from the construction phase of the Project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 (CAPCOA 2017). Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the developer and CalEEMod default values when Project specifics were not known.

For purposes of estimating Project emissions, and based on information provided by the developer, it is assumed that construction of the Project would commence in late 2019⁴ and would last approximately 14 months ending in late 2020.

Due to the topography of the Project site, some grading would be required to create level surfaces for certain facilities (i.e., wind turbines and pads, O&M facility, substations, concrete batch plant, staging/laydown areas). No cut material would be exported from the Project site. Approximately 924 acres would be graded, which includes 746 acres in the Reservation and 178 acres on private lands, primarily for access roads, turbine foundations, and associated structures.

Five miles of the gen-tie line would be located on the Reservation and 3.5 miles of the gen-tie line would be located within the County; thus, emissions generated by construction of the gen-tie line were proportioned based on the length of each section on the Reservation and on private lands within the County.

⁴ The analysis assumes a construction start date of late 2019, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

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The Project would require the import of water for dust control. Approximately 173 acre-feet (AF) of water would be used during the clearing and grading phase. Approximately 50 AF of water would be used during the construction of the Boulder Brush Facilities. Water would be imported from On- and Off-Reservation facilities, such as production wells on the Reservation and non-potable water obtained from commercial sellers such as Jacumba Community Services District and Padre Dam Municipal Water District. Water would be transported to the site using 6,000-gallon water trucks, which are categorized as heavy-duty haul trucks in CalEEMod. To present a conservative emissions estimate, water imported during construction activities was assumed to come from the Padre Dam, located approximately 57 miles from the Project site, the farthest water source that would be used.

After site preparation, staging and assembly areas would be constructed, and grading of site access roads for wind turbine installation. Construction staging and material laydown areas would be distributed across the Project site. Trucks and other vehicles would transport construction equipment, materials, and workers on access roads to the Project site. Truck-mounted cranes would place turbines on foundations.

Based on data from similar projects in the general vicinity of the Project site, the worker mix was assumed to include 10% coming from San Diego, 45% coming from Alpine, and 45% coming from Oaks at Sacred Rock RV Park (Terra-Gen 2019). Haul trucks were assumed to come from El Centro for all aggregate and the Port of San Diego for all turbine components. The vendor trucks were assumed to come from a distance equivalent to Padre Dam.

Project construction would then include several phases occurring simultaneously: wind turbine construction, including the assembly of turbines, installation of foundations, placement of turbines on foundations, and trenching and installation of electrical equipment for turbines; electrical facilities, including the construction of substations, a transmission line, switchyard, and O&M facility; and grading of access roads.

The construction equipment mix and vehicle trips used for estimating the Project-generated construction emissions are shown in Table 6. For the analysis, it was generally assumed that heavy construction equipment would be operating at the site for approximately 5 days per week, during Project construction.

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Table 6
Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Clearing and grading	72	108	734	Graders	3	8
				Rubber-tired dozers	8	8
				Scrapers	3	8
				Crushing/processing equipment	1	8
Construction of access roads	120	0	22	Scrapers	3	8
				Rubber-tired loaders	7	8
Paving	66	0	0	Pavers	1	8
				Paving equipment	4	8
				Rollers	8	8
Wind turbine foundation construction	168	20	3,046	Air compressors	3	8
				Generator sets	3	8
				Pumps	1	8
Wind turbine erection	144	0	720	Cranes	19	7
				Air compressors	2	8
				Generator sets	3	8
				Pumps	2	8
				Welders	7	8
Construction of underground Electrical Collection and Communication System	240	12	368	Rubber-tired dozers	2	7
				Tractors/loaders/backhoes	4	8
				Trenchers	3	8
Collector Substation	144	8	415	Air compressors	1	8
				Cranes	2	7
				Generator sets	6	8
				Pumps	3	8
				Tractors/loaders/backhoes	3	7
				Welders	2	8
Boulder Brush Facilities (clearing and grading)	48	20	0	Tractors/loaders/backhoes	4	7
				Rubber-tired dozers	4	8
				Graders	2	7
Boulder Brush Facilities (construction access roads)	48	10	32	Pavers	1	8
				Rollers	4	8
				Scrapers	2	8
				Paving equipment	4	8
				Pump	1	7
Boulder Brush	96	10	30	Forklifts	1	8

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Table 6
Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Facilities (foundation construction and tower erection)				Welder	1	7
				Air compressor	1	7
				Generator sets	2	6
				Pump	1	7
Boulder Brush Facilities (stringing and pulling)	72	10	20	Welder	1	7
				Air compressor	1	7
Operations and maintenance building	120	4	20	Cranes	1	7
				Generator sets	1	8
				Tractors/loaders/backhoes	1	7
				Welders	1	8
Meteorological tower	24	4	4	Cranes	1	7
				Generator sets	2	8
				Tractors/loaders/backhoes	1	7
				Welders	1	8

Notes: See Appendix A for details.

Temporary Batch Plant

A temporary batch plant would mix concrete for foundations of the turbines, substations, transmission poles, and O&M facility. The temporary batch plant would occupy an area of approximately 3.7 acres. The temporary batch plant would consist of a mixing plant, areas for aggregate and sand stockpiles, driveways, truck load-out area, turnaround(s), cement storage silos, water and mixture tanks, aggregate hoppers, conveyors, and augers to deliver different materials to the mixing plant. Emission factors were obtained from the EPA's Compilation of Air Pollutant Emission Factors (AP-42), Table 10.12-6, Plant Wide Emission factors per Yard of Central Mix Concrete (EPA 2006). The temporary batch plant throughput would be 18,000 cubic yards of concrete and would operate for 150 days for the Project. For the construction of Boulder Brush, the temporary batch plant throughput would be 2,000 cubic yards of concrete and would operate for 60 days.

Temporary Staging/Laydown Areas

Two temporary staging areas of approximately 20 acres total would be established to house construction management facilities, materials and equipment storage, and worker parking. Upon

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completion of construction, the O&M facility would be located within one of the temporary staging area footprints. In addition to the staging areas, each turbine would require a laydown area at the turbine location for the assembly of the turbine components and to erect each turbine. Each laydown area would be approximately 100 feet by 200 feet, plus clearing for blades.

Blasting

Blasting operations would be required for site preparation. Rock blasting is the controlled use of explosives to excavate, break down, or remove rock. The result of rock blasting is often known as a rock cut. The most commonly used explosives today are ammonium nitrate/fuel oil (ANFO)–based blends due to their lower cost compared to dynamite. The chemistry of ANFO detonation is the reaction of ammonium nitrate with a long-chain alkane to form NO_x, carbon dioxide, and water. When detonation conditions are optimal, these gases are the only products. In practical use, such conditions are impossible to attain, and blasts produce moderate amounts of other gases. The AP-42, Section 13.3 – Explosives Detonation (EPA 1980), provided the emissions factors for CO, NO_x, and SO_x used in this assessment. According to AP-42, “Unburned hydrocarbons also result from explosions, but in most instances, methane is the only species that has been reported” (EPA 1980); methane is not a VOC, and a methane emission factor has not been determined for ANFO.

AP-42 states that CO is the pollutant produced in greatest quantity from explosives detonation. All explosives produce measurable amounts of CO. Particulates are produced as well, but such large quantities of particulate are generated during shattering of the rock and earth by the explosive that the quantity of particulates from the explosive charge cannot be distinguished. Accordingly, AP-42, Section 11.9 – Western Surface Coal Mining (EPA 1998), provided the basis for the PM₁₀ and PM_{2.5} emissions factors. The emissions factors are based on the horizontal area disturbed during blasting.

It is anticipated that blasting operations would occur during the grading phase. No more than two blasts per day would occur during construction activities. An average of 1.2 tons of ANFO would be applied per blast (Campo Wind LLC 2019). The blasting information provided by the developer and additional calculation assumptions are provided in Table 7.

Table 7
Blasting Characteristics

Activity	
Total Rock Requiring Blasting (cubic yards)	1,537,480
Rock blasted per blast (cubic yards per blast)	15,000
Maximum blasts per day (blasts per day)	2
Maximum explosive per blast (tons ANFO per blast)	1.2
Total explosives used (tons ANFO)	123

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**Table 7
Blasting Characteristics**

Activity	
Maximum area blasted per day (square feet per day)	4,004
Total area blasted (square feet)	136,786

Sources: Campo Wind LLC 2019.

Note: ANFO = ammonium nitrate/fuel oil.

Rock Crushing

Emissions associated with rock crushing were quantified in a separate calculation, since CalEEMod does not account for rock crushing fugitive dust emissions. Emissions factors were obtained from AP-42, Section 11.9.2 – Crushed Stone Processing and Pulverized Mineral Processing (EPA 2004). For transfers to the feed hopper and stockpiles, the “drop” equation in Section 13.2.4 – Aggregate Handling and Storage Piles of AP-42 (EPA 2006) was used to derive an emissions factor. Rock crushing would occur on an as-needed basis and would not occur every day during construction. Rock crushing information was provided by the developer’s construction contractor and additional calculation assumptions are provided in Table 8.

**Table 8
Rock Crushing Characteristics**

Activity	Amount
Amount of rock to be processed (cubic yards)	30,770
Number of rock crushing facilities	1
Number of generators	1
Operating hours per day per generator (hours per day)	8
Total rock processed per day (cubic yards day)	3,077
Total operating days (days)	62

Source: Campo Wind LLC 2019.

The rock-crushing equipment was assumed to consist of a crusher, screen, and conveyor, and the crushed rock would be stockpiled for future use. Although a single primary crusher and screen may be all that is required, use of a secondary crusher and additional screen would expedite this process. To generate a conservative emissions estimate, it was assumed that a feed hopper, primary and secondary crushers, two screens, and several conveyors for transfers would be used. Particulate emissions from the crushers, screens, and conveyors would be controlled with water sprays.

It is expected that the rock-crushing equipment would be powered by a diesel-engine generator. The engine generator would operate up to 8 hours per day. The VOC, NO_x, CO, SO_x, PM₁₀, and

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PM_{2.5} emissions from the diesel-engine generator were estimated using the CalEEMod. Rock-crushing emissions calculations are provided in Appendix A.

2.4.2.2 Operational Emissions

Emissions from the operational phase of the Project were estimated using CalEEMod Version 2016.3.2. Operational year 2020 was assumed upon construction completion. The wind power generation facility would operate year-round for a minimum of 25 years. Operation of the Project would be limited to general maintenance and security. Facility maintenance is summarized below for each facility.

Operational Traffic

Project operations would generate minimal annual emissions from maintenance and security vehicles. According to the developer, the Project would employ 10 to 12 full-time employees, generating 24 daily two-way trips, 7 days per week. Security staff traveling throughout the Project site would use light-duty pickup trucks. Although workers may come from areas closer to the Project site, such as Campo, workers were conservatively assumed to travel from downtown San Diego (68 miles one-way). The Boulder Brush Facilities would not include operational activities.

Wind Turbine Generator

Scheduled maintenance on the wind turbines would include mechanical and electrical checks and maintenance. Initial maintenance would be performed after 1 to 3 months of operation; thereafter, maintenance would be performed approximately every 6 months or earlier as required. Maintenance on individual turbines would be done on a rotating basis by on-site technicians, operating in two- or three-person crews. Unscheduled turbine maintenance would include troubleshooting and replacing or repair of major or minor components, on an as-needed basis by on-site technicians. Some of the unscheduled maintenance would potentially require the use of cranes to remove and replace major components.

Access Roads

Maintenance of access roads would include roadway resurfacing and the clearing of debris from culverts and drainage ditches. Annual inspections of access roads would be completed in the spring and summer months by the on-site O&M staff.

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Electrical Collection and Communication System

Collector lines would primarily be buried underground, and thus, would not be subject to visual inspections. However, collector lines aboveground, including lines and poles, would be subject to regular visual inspections and routine mechanical maintenance, performed annually as necessary. Vegetation management tasks would include annual mowing of vegetation along buried cable rights-of-way.

Transmission Lines

Transmission lines and poles would be subject to regular visual inspections and routine mechanical maintenance. Scheduled maintenance and inspections would be performed annually and as necessary. Vegetation management tasks would include annual mowing of vegetation along buried transmission line right-of-ways.

Meteorological Towers

The permanent meteorological towers would be inspected on a regular basis and regular maintenance may include upgrades to equipment on the towers but would not include alterations to the tower structure or require ground disturbance.

Substation Equipment

Substation equipment would be subject to regular visual inspections and routine mechanical maintenance, performed annually and as necessary.

Operations and Maintenance Building

The O&M facility would require standard maintenance including interior cleaning and housekeeping, removal of trash, repairs to driveway surface, and cleaning/clearing of gutters. The Project's water demand would be served by an on-site groundwater well.

Fire Management

Each turbine would have a 50-foot-radius fuel modification zone, within which vegetation would be annually cropped to limit vegetation height and fire fuel potential. For areas where overhead circuit lines, collector or transmission, are proposed, a 50-foot-wide fuel modification zone on each side of the cable/line would be maintained.

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Stationary Sources

The Project would include two diesel emergency generators, one 200 kilowatt (kW) generator at the collector substation and one 150 kW generator at the O&M facility. Each generator was assumed to operate for testing and maintenance approximately 30 minutes each month, for a total of up to 50 hours per year. The CalEEMod default emission factors for emergency generators were used to estimate emissions from this source.

2.5 Analysis of Project Effects and Determination as to Significance

2.5.1 Construction Effects

Construction of the Project would result in the temporary addition of VOC, NO_x, and CO emissions to the local airshed caused by on-site sources (e.g., off-road construction equipment, soil disturbance, VOC off-gassing from architectural coatings and asphalt pavement application, and internal haul trucks) and off-site sources (e.g., vendor trucks and worker vehicle trips). Internal combustion engines used by construction equipment, internal haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOCs, NO_x, and CO. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions.

Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

As discussed in Section 1.4, Project Design Features, the Project would implement PDF-AQ-1 through PDF-AQ-4. Section 2.4.2.1, Construction Emissions, presents the methodology and assumptions used to estimate emissions from construction of the Project. Appendix A presents construction scenario details, including phasing and phase duration, off-road-equipment use (equipment type, quantity, horsepower, load factor, and hours of operation), and vehicle trips (internal haul trucks, vendor truck, and workers vehicle trips). The estimated annual construction emissions are shown in Table 9. Estimated maximum annual emissions of VOC, NO_x, and CO are compared to the federal *de minimis* thresholds.

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Table 9
Estimated Annual Construction Criteria Air Pollutant Emissions – Unmitigated

Phase Description	VOC	NO _x	CO
	Tons per Year		
2019			
Campo Wind Facilities ^a	0.42	4.71	12.19
Boulder Brush Facilities	0.05	0.40	1.12
2019 Total	0.47	5.11	13.30
2020			
Campo Wind Facilities ^a	0.79	4.62	14.48
Boulder Brush Facilities	0.01	0.04	0.04
2020 Total	0.80	4.66	14.53
Maximum Annual Emissions	0.80	5.11	14.53
Federal De Minimis Threshold	100	100	100
Threshold Exceeded?	No	No	No

Source: See Appendix A.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide.

^a The Conformity Determination apply to the portions of the Project under federal control, but the emissions for Boulder Brush Facilities located on Private Land are included for disclosure.

Estimated emissions include compliance with PDF-AQ-1 through PDF-AQ-4.

As shown in Table 9, the Project would not exceed federal *de minimis* emissions thresholds for VOC, NO_x, and CO during construction; therefore, further analysis is not required for VOC, NO_x, and CO. As such, the Project would be in compliance with general conformity requirements and would not conflict with local air quality attainment or maintenance plans to achieve or maintain federal ambient air quality standards. This is not considered an adverse effect.

2.5.2 Operational Effects

Operation of the Project would generate VOC, NO_x, and CO, emissions from mobile sources, including vehicle trips from workers; and stationary sources, including two emergency generators. As discussed in Section 2.4.2.2, Operational Emissions, criteria air pollutant emissions associated with long-term operations were quantified using CalEEMod.

CalEEMod Version 2016.3.2 uses vehicle emission factors from EMFAC2014, which take into account various statewide and federal mobile source strategies and regulations. No mobile source regulatory measures were quantitatively assumed in addition to regulations included in EMFAC2014 as incorporated into CalEEMod. The Project's annual operational VOC, NO_x, and CO emissions are summarized in Table 10.

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Table 10
Estimated Maximum Annual Operational Criteria Air Pollutant Emissions

Emission Source ^a	VOC	NO _x	CO
	<i>Tons per Year</i>		
Area	0.02	0.00	0.00
Mobile	0.01	0.04	0.33
Stationary	0.02	0.05	0.05
Total Maximum Annual Emissions	0.05	0.09	0.38
<i>Federal De Minimis Threshold</i>	<i>100</i>	<i>100</i>	<i>100</i>
Threshold Exceeded?	No	No	No

Source: See Appendix A.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide.

Emissions reflect operational year 2020.

^a The Conformity Determination apply to the portions of the Project under federal control. Furthermore, there are no operational emissions associated with the Boulder Brush Facilities.

As shown in Table 10, the Project's annual VOC, NO_x, and CO emissions from operational emissions are less than the federal *de minimis* emissions thresholds; therefore, further analysis is not required for VOC, NO_x, and CO. As such, the Project would be in compliance with general conformity requirements and would not conflict with local air quality attainment or maintenance plans to achieve or maintain federal ambient air quality standards. This is not considered an adverse effect.

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3 GREENHOUSE GAS EMISSIONS

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2017a).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth; the Earth emits a portion of this energy in the form of long-wave radiation; and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes, such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-20th century and are the most significant driver of observed climate change (EPA 2017a; Intergovernmental Panel on Climate Change (IPCC) 2013). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system.

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3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. GHGs include, but are not limited to, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), O₃, water vapor, fluorinated gases (hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆) and nitrogen trifluoride (NF₃)), chlorofluorocarbons (CFCs), and hydrochlorofluorocarbons (HCFCs). Some GHGs, such as CO₂, CH₄, and N₂O, occur naturally and are emitted to the atmosphere through natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO₂, include fluorinated gases, such as HFCs, PFCs, and SF₆, which are associated with certain industrial products and processes. A summary of the most common GHGs and their sources is included in the following text.⁵

Carbon Dioxide. CO₂ is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO₂ include respiration of bacteria, plants, animals, and fungus; evaporation from oceans, volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO₂ are from the combustion of coal, oil, natural gas, and wood.

Methane. CH₄ is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. Sources of N₂O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and the use of N₂O as a propellant (such as in rockets, racecars, aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic, powerful GHGs that are emitted from a variety of industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals that are used as alternatives to ozone-depleting

⁵ The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), the California Air Resources Board's (CARB's) Glossary of Terms Used in GHG Inventories (2015), and the U.S. Environmental Protection Agency's (EPA's) Glossary of Climate Change Terms (2016).

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substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.

- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, along with HFCs, to the ozone depleting substances. The two main sources of PFCs are primarily aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF₆ is a colorless gas that is soluble in alcohol and ether and slightly soluble in water. SF₆ is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen trifluoride:** NF₃ is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O₃.

Hydrochlorofluorocarbons. HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential (GWP). Diesel particulate matter emissions are a major source of black carbon and are also TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining diesel particulate matter from CARB's regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014a).

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Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone. Tropospheric O₃, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O₃, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O₂), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O₃, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2015).

The Intergovernmental Panel on Climate Change (IPCC) developed the GWP concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO₂; therefore, GWP-weighted emissions are measured in metric tons of CO₂ equivalent (MT CO₂e).

The current version of CalEEMod (Version 2016.3.2) assumes that the GWP for CH₄ is 25 (which means that emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂), and the GWP for N₂O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the Project.

3.1.4 Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 IPCC Synthesis Report indicated that warming of the climate system is unequivocal and since the

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1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, and rising sea levels (IPCC 2014).

In California, climate change impacts have the potential to affect sea level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply. The primary effect of global climate change has been a 0.2°C rise in average global tropospheric temperature per decade, determined from meteorological measurements worldwide between 1990 and 2005. Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. A warming of about 0.2°C (0.36°F) per decade is projected, and there are identifiable signs that global warming could be taking place.

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The average temperatures in California have increased, leading to more extreme hot days and fewer cold nights; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

An increase in annual average temperature is a reasonably foreseeable effect of climate change. Observed changes over the last several decades across the western United States reveal clear signals of climate change. Statewide average temperatures increased by about 1.7°F from 1895 to 2011, and warming has been greatest in the Sierra Nevada. By 2050, California is projected to warm by approximately 2.7°F above 2000 averages, a threefold increase in the rate of warming over the last century. By 2100, average temperatures could increase by 4.1°F to 8.6°F, depending on emissions levels. Springtime warming—a critical influence on snowmelt—will be particularly pronounced. Summer temperatures will rise more than winter temperatures, and the increases will be greater in inland California, compared to the coast. Heat waves will be more frequent, hotter, and longer. There will be fewer extremely cold nights. A decline of Sierra snowpack, which accounts for approximately half of the surface water storage in California and much of the state's water supply, by 30% to as much as 90% is predicted over the next 100 years (CAT 2010).

Model projections for precipitation over California continue to show the Mediterranean pattern of wet winters and dry summers with seasonal, year-to-year, and decade-to-decade variability. For the first time, however, several of the improved climate models shift toward drier conditions by the mid-to-late 21st century in central and, most notably, Southern California. By late-century, all

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projections show drying, and half of them suggest 30-year average precipitation will decline by more than 10% below the historical average (CAT 2010).

A summary of current and future climate change impacts to resource areas in California, as discussed in *Safeguarding California: Reducing Climate Risk* (CNRA 2014), is provided in the following text.

Agriculture. The impacts of climate change on the agricultural sector are far more severe than the typical variability in weather and precipitation patterns that occur year to year. Some of the specific challenges faced by the agricultural sector and farmers include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding to extreme drought, to destructive storm events; significant shifts in water availability and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased risks from invasive species and weeds, agricultural pests, and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production. These challenges and associated short-term and long-term impacts can have both positive and negative effects on agricultural production. Nonetheless, it is predicted that current crop and livestock production will suffer long-term negative effects resulting in a substantial decrease in the agricultural sector if not managed or mitigated (CNRA 2014).

Biodiversity and Habitat. The state's extensive biodiversity stems from its varied climate and assorted landscapes, which have resulted in numerous habitats where species have evolved and adapted over time. Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes, range shift, and novel combinations of species; pathogens, parasites and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions; and threshold effects (i.e., a change in the ecosystem that results in a "tipping point" beyond which irreversible damage or loss has occurred). Habitat restoration, conservation, and resource management across California and through collaborative efforts among public, private, and nonprofit agencies has assisted in the effort to fight climate change impacts on biodiversity and habitat. One of the key measures in these efforts is ensuring species' ability to relocate as temperature and water availability fluctuate as a result of climate change, based on geographic region.

Energy. The energy sector provides California residents with a supply of reliable and affordable energy through a complex integrated system. Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events and sea level rise. Increasing temperatures and reduced snowpack negatively impact the availability of a steady flow of snowmelt to hydroelectric reservoirs. Higher temperatures also reduce the capacity of thermal power plants since power plant cooling is less efficient at higher

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ambient temperatures. Natural gas infrastructure in coastal California is threatened by sea level rise and extreme storm events (CNRA 2014).

Forestry. Forests occupy approximately 33% of California's 100 million acres and provide key benefits such as wildlife habitat, absorption of CO₂, renewable energy and building materials. The most significant climate change related risk to forests is accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large scale mortalities and combined with increasing temperatures have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts and vegetation conversions. These factors contribute to decreased forest growth, geographic shifts in tree distribution, loss of fish and wildlife habitat and decreased carbon absorption. Climate change may result in increased establishment of non-native species, particularly in rangelands where invasive species are already a problem. Invasive species may be able to exploit temperature or precipitation changes, or quickly occupy areas denuded by fire, insect mortality or other climate change effects on vegetation (CNRA 2014).

Ocean and Coastal Ecosystems and Resources. Sea level rise, changing ocean conditions and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea level rise in addition to more frequent and severe coastal storms and erosion are threatening vital infrastructure such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets such as beaches and tidal wetlands. Water quality and ocean acidification threaten the abundance of seafood and other plant and wildlife habitats throughout California and globally (CNRA 2014).

Public Health. Climate change can impact public health through various environmental changes and is the largest threat to human health in the twenty-first century. Changes in precipitation patterns affect public health primarily through potential for altered water supplies, and extreme events such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves is likely to increase the risk of mortality due to heat related illness as well as exacerbate existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illness such as asthma and allergies. Additional health impacts that may be impacted by climate change include cardiovascular disease, vector-borne diseases, mental health impacts, and malnutrition injuries. Increased frequency of these ailments is likely to subsequently increase the direct risk of injury and/or mortality (CNRA 2014).

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Transportation. Residents of California rely on airports, seaports, public transportation, and an extensive roadway network to gain access to destinations, goods and services. While the transportation industry is a source of GHG emissions it is also vulnerable to climate change risks. Particularly, sea level rise and erosion threaten many coastal California roadways, airports, seaports, transit systems, bridge supports, and energy and fueling infrastructure. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause the road surfaces to expand which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure which can impair movement of peoples and goods, or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety (CNRA 2014).

Water. Water resources in California support residences, plants, wildlife, farmland, landscapes, and ecosystems and bring trillions of dollars in economic activity. Climate change could seriously impact the timing, form, amount of precipitation, runoff patterns, and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the winter time. Increased risk of flooding has a variety of public health concerns including water quality, public safety, property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively impact groundwater reserves and result in increased overdraft and subsidence. Droughts can also negatively impact agriculture and farmland throughout the state. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality. Water temperatures are also prone to increase, which can negatively impact wildlife that rely on a specific range of temperatures for suitable habitat (CNRA 2014).

3.2 Regulatory Setting

3.2.1 Federal Regulations

Massachusetts v. EPA. In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal Clean Air Act:

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- The Administrator found that elevated concentrations of GHGs—CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆—in the atmosphere threaten the public health and welfare of current and future generations. This is the “endangerment finding.”
- The Administrator further found the combined emissions of GHGs—CO₂, CH₄, N₂O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the “cause or contribute finding.”

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

Energy Independence and Security Act of 2007. The Energy Independence and Security Act of 2007 (December 2007), among other key measures, would do the following, which would aid in the reduction of national GHG emissions (EPA 2007):

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and directs National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy-efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

Federal Vehicle Standards. In response to the U.S. Supreme Court ruling discussed above, the Bush Administration issued Executive Order 13432 in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Barack Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams

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per mile of CO₂ in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200). On January 12, 2017, the EPA finalized its decision to maintain the current greenhouse (GHG) emissions standards for model years 2022–2025 cars and light trucks (EPA 2017b).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018 (76 FR 57106–57513). The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6%–23% over the 2010 baselines.

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO₂ emissions by approximately 1.1 billion MT and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

However, in 2018 the EPA and the NHTSA proposed to amend certain existing Corporate Average Fuel Economy (CAFE) and GHG emissions standards for passenger cars and light trucks and establish new standards, covering model years 2021 through 2026. Compared to maintaining the post-2020 standards now in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2%–3% of total daily consumption, according to the Energy Information Administration) and would impact the global climate by 3/1000th of one degree Celsius by 2100 (EPA 2018b). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. Thus, the timing and consequences of the 2018 federal proposal are speculative at this time.

Clean Power Plan and New Source Performance Standards for Electric Generating Units.

On October 23, 2015, EPA published a final rule (effective December 22, 2015) establishing the Carbon Pollution Emission Guidelines for Existing Stationary Sources: Electric Utility Generating Units (80 FR 64510–64660), also known as the Clean Power Plan. These guidelines prescribe how states must develop plans to reduce GHG emissions from existing fossil-fuel-fired electric generating units. The guidelines establish CO₂ emission performance rates representing the best system of emission reduction for two subcategories of existing fossil-fuel-fired electric generating

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units: (1) fossil-fuel-fired electric utility steam-generating units, and (2) stationary combustion turbines. Concurrently, the EPA published a final rule (effective October 23, 2015) establishing Standards of Performance for Greenhouse Gas Emissions from New, Modified, and Reconstructed Stationary Sources: Electric Utility Generating Units (80 FR 64661–65120). The rule prescribes CO₂ emission standards for newly constructed, modified, and reconstructed affected fossil-fuel-fired electric utility generating units. The U.S. Supreme Court stayed implementation of the Clean Power Plan pending resolution of several lawsuits.

Mandatory Greenhouse Gas Reporting Rule. On September 22, 2009, EPA published the Final Mandatory Greenhouse Gas Reporting Rule (Reporting Rule) in the Federal Register (74 FR 56260–56373). The Reporting Rule requires reporting of GHG data and other relevant information from fossil fuel and industrial GHG suppliers, vehicle and engine manufacturers, and all facilities that would emit 25,000 MT CO₂e or more per year. Facility owners are required to submit an annual report with detailed calculations of facility GHG emissions on March 31 for emissions from the previous calendar year. The Reporting Rule also mandates recordkeeping and administrative requirements to enable EPA to verify the annual GHG emissions reports.

3.3 Greenhouse Gas Inventories and Climate Change Conditions

Sources of Greenhouse Gas Emissions

Per the EPA's *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2016* (2018), total United States GHG emissions were approximately 6,511.3 million metric tons (MMT) CO₂e in 2016. The primary GHG emitted by human activities in the United States was CO₂, which represented approximately 81.6% of total GHG emissions (5,310.9 MMT CO₂e). The largest source of CO₂, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 93.5% of CO₂ emissions in 2016 (4,966.0 MMT CO₂e). Relative to 1990, gross United States GHG emissions in 2016 are higher by 2.4%; down from a high of 15.7% above 1990 levels in 2007. GHG emissions decreased from 2015 to 2016 by 1.9% (126.8 MMT CO₂e) and overall, net emissions in 2016 were 11.1% below 2005 levels (EPA 2018a).

3.4 Threshold Criteria and Methodology

3.4.1 Thresholds

National Environmental Policy Act Considerations

The Tribe, Muht Hei Inc., and BIA consider the consistency of a proposed Project with federal guidance concerning the evaluation and reduction of GHG emissions. There are no federal

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threshold criteria established for GHG emissions; however, the Project's anticipated GHG emissions are reported and analyzed herein for disclosure purposes.

3.4.2 Approach and Methodology

3.4.2.1 Construction

CalEEMod Version 2016.3.2 was used to estimate potential Project-generated GHG emissions during construction. Construction of the Project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.4.2.1 are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

3.4.2.2 Operation

CalEEMod Version 2016.3.2 was used to estimate potential Project-generated GHG emissions from Project operation. All details for operational emissions of criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operation-related GHG emissions. For additional details, see Section 2.4.2.2 for a discussion of operational emission calculation methodology and assumptions, specifically for operational traffic, wind turbine generator, access roads, electrical collection and communication system, transmission lines, meteorological towers, substation equipment, O&M facility, and fire management. Operational year 2020 was assumed.

During operations and maintenance, one of the main sources of GHG emissions would be fugitive emissions from equipment containing SF₆ gas installed at the collector substation. SF₆ has a GWP of 23,900 using CO₂ at a reference value of 1 (IPCC 2007). The collector substation would include three 500 kV breakers that would contain SF₆ gas. It is estimated that the Project would maintain a total of 1,209 pounds of SF₆ gas at the collector substation. Although leakage is unlikely, for the purposes of the Project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics Engineers (IEEE) PC37.122 – Standard for High Voltage Gas-Insulated Substations Rated above 52 kV (IEEE 2018). Emissions from breakers are reported as an area source.

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3.5 Project Emissions Estimation Disclosure

3.5.1 Construction Emissions

Emissions from the construction phase of the Project were estimated using CalEEMod. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the Developer, CalEEMod defaults, and professional judgment.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2.4.2.1. Construction of the Project is anticipated to commence in late 2019 and reach completion in late 2020, lasting a total of 12 months. On-site sources of GHG emissions include off-road equipment and off-site sources including vendor trucks and worker vehicles. Table 11 presents construction emissions for the Project in 2019 and 2020 from on-site and off-site emission sources.

Table 11
Estimated Annual Construction GHG Emissions

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
2019				
Campo Wind Facilities	2,159.90	0.33	0.00	2,168.32
Boulder Brush Facilities	264.01	0.05	0.00	265.10
2019 Total	2,423.91	0.38	0.00	2,433.42
2020				
Campo Wind Facilities	3,718.24	0.52	0.00	3,731.36
Boulder Brush Facilities	16.42	<0.01	0.00	16.44
2020 Total	3,734.66	0.52	0.00	3,747.80
Total	6,158.57	0.90	0.00	6,181.22

CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent; <0.01 = values are reported as less than 0.01. See Appendix A for complete results.

As shown in Table 11, the estimated total GHG emissions during construction would be approximately 2,433 metric tons of carbon dioxide equivalent (MT CO₂e) in 2019 and 3,748 MT CO₂e in 2020, for a total of 6,181 MT CO₂e over the construction period. As with Project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the Project would be short term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

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3.5.2 Loss of Sequestered Carbon

The calculation methodology and default values provided in CalEEMod (California Air Pollution Control Officers Association (CAPCOA) 2017) were used to calculate potential CO₂ emissions associated with the one-time change in carbon sequestration capacity of a vegetation land use type. The calculation of the one-time loss of sequestered carbon is the product of the converted acreage value and the carbon content value for each land use type (vegetation community). The mass of sequestered carbon per unit area (expressed in units of MT of CO₂ per acre) is dependent on the specific land use type. Assuming that the sequestered carbon is released as CO₂ after removal of the vegetation, annual CO₂ is calculated by multiplying total biomass (MT of dry matter per acre) from IPCC data by the carbon fraction in plant material, and then converting MT of carbon to MT of CO₂ based on the molecular weights of carbon and CO₂.

It is conservatively assumed that all sequestered carbon from the removed vegetation would be returned to the atmosphere; that is, the wood from the trees and vegetation communities would not be re-used in a solid form or another form that would retain carbon. GHG emissions generated during construction activities, including clearing, tree removal, and grading, are estimated in the construction emissions analysis.

CalEEMod calculates GHG emissions resulting from land conversion and uses six⁶ general IPCC land use classifications for assigning default carbon content values (in units of MT CO₂ per acre). CalEEMod default carbon content values were assumed to estimate the loss of sequestered carbon (release of CO₂) from the removal of the scrub (14.3 MT CO₂ per acre), forest (111 MT CO₂ per acre), wetlands (0 MT CO₂ per acre), and grassland (4.31 MT CO₂ per acre) vegetation categories, which are based on data and formulas provided in the IPCC reports. The Project would permanently disturb approximately 805 acres with varying carbon content values, which includes 746 acres in the Reservation and 59 acres in the County.

As shown in Table 12, Vegetation Removal – Estimated Loss of Sequestered Carbon, the estimated total one-time loss of sequestered carbon from land use conversion for the Project would be 13,575 MT CO₂.

Table 12
Vegetation Removal – Estimated Loss of Sequestered Carbon

Vegetation Type	CalEEMod Vegetation Land Use Category	CO ₂ Emissions Factor (MT CO ₂ per acre)	Net Loss (acres)	Loss of Sequestered Carbon (MT CO ₂)
<i>Campo Wind</i>				
Forest Land	Scrub	14.3	698.99	9,995.56

⁶ Forest land (scrub), forest land (trees), cropland, grassland, wetlands, and other.

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Table 12
Vegetation Removal – Estimated Loss of Sequestered Carbon

Vegetation Type	CalEEMod Vegetation Land Use Category	CO ₂ Emissions Factor (MT CO ₂ per acre)	Net Loss (acres)	Loss of Sequestered Carbon (MT CO ₂)
Forest Land	Trees	111	22.14	2,457.54
Grassland	Grassland	4.31	24.26	104.56
Wetlands	Wetlands	0.00	0.36	0.00
<i>Campo Wind Subtotal</i>			745.75	12,557.66
<i>Boulder Brush Facilities</i>				
Forest Land	Scrub	14.3	57.04	815.67
Forest Land	Trees	111	1.82	202.02
<i>Boulder Brush Facilities Subtotal</i>			58.86	1,017.69
Total			804.61	13,575.35

Source: CAPCOA 2017.

Notes: MT CO₂ = metric tons carbon dioxide.

See Appendix A for complete results.

Numbers may not add exactly due to rounding.

3.5.3 Operational Emissions

CalEEMod was used to estimate potential Project-generated operational GHG emissions from area sources (gas insulated switchgear), energy sources (electricity), mobile sources, solid waste, and water supply and wastewater treatment. Emissions from each category are discussed in the following text. Operational year 2020 was assumed.

The estimated operational (year 2020) Project-generated GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, and water usage and wastewater generation are shown in Table 13.

Table 13
Estimated Annual Operational GHG Emissions

Emission Source	CO ₂	CH ₄	N ₂ O	CO ₂ e
	<i>metric tons per year</i>			
Area ^a	0.00	0.00	0.00	65.53
Energy	13.91	<0.01	<0.01	13.99
Mobile	102.85	<0.01	0.00	102.92
Stationary ^b	8.91	<0.01	0.00	8.94
Solid waste	0.94	0.06	0.00	2.34
Water supply and wastewater	3.93	0.03	<0.01	4.88
Total	130.54	0.09	<0.01	198.59

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent; SF₆ = sulfur hexafluoride; <0.01 = values are reported as less than 0.01.

See Appendix A for complete results.

^a Emissions from SF₆ are considered an area source.

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^b Stationary sources includes emergency generators.
Numbers may not add exactly due to rounding.

As shown in Table 13, estimated annual Project-generated GHG emissions in 2020 would be approximately 199 MT CO₂e per year as a result of Project operations only. While there are no specific requirements for evaluating GHG emissions under NEPA, estimated Project-generated construction GHG emissions are included for disclosure.

Greenhouse Gas Emissions Benefits

The Project would provide a source of renewable energy. Renewable energy capacity has the potential to replace GHG emissions generated by, among other things, burning fossil fuels to generate electricity or for transportation. The Project is expected to produce an estimated 756,000 megawatt-hours (MWh) of electricity per year. It is instructive to look at the electricity profile of the San Diego Gas & Electric Company (SDG&E) to demonstrate the GHG emissions benefit the Project may have in its contribution to Southern California's regional electricity supply. The latest published GHG emission factor for SDG&E is 0.302 MT CO₂e per MWh (Energy Policy Initiatives Center (EPIC) 2016). SDG&E reported that 43% of its power mix was renewable in 2016. Therefore, the non-renewable GHG emission factor would be 0.530 MT CO₂e per MWh.

The Project, by potentially offsetting non-renewable electricity generating capacity, would therefore provide a potential reduction of 400,547 MT CO₂e per year if the renewable electricity generated by the project were to be used instead of electricity generated by SDG&E with its current mix of energy sources. Annualized construction, loss of carbon sequestration, and operational emissions are calculated to be 857 MT CO₂e per year. Thus, the Project could result in a net reduction in GHG emissions of up to 399,690 MT CO₂e per year and 11,990,700 MT CO₂e over the 38-year Project lifetime. While energy produced by the Project may not directly replace energy produced by SDG&E it is likely that the energy produced by the Project would replace a fossil-fuel energy source currently used by a California offtaker (e.g., a Community Choice Aggregator) because California load serving entities must provide only carbon-free energy by 2045..

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Air Quality and Greenhouse Gas Emissions Analysis Technical Report for the Campo Wind Project

5 LIST OF PREPARERS

Jennifer Reed, Air Quality Services Manager
Samantha Wang, Air Quality Specialist

Air Quality and Greenhouse Gas Emissions Analysis

Technical Report for the Campo Wind Project

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APPENDIX A

CalEEMod Output Files

**The Campo Wind Energy Project
Blasting Emissions**

Anticipated blasting activities is assumed to include the following:

Assumptions:

- 15,000 cubic yard/blast
- 2 blast/day
- 1.20 ton explosives/per 15,000 CY blast (maximum blast)
- 11.24 feet average depth

Project Phase Estimates:

- 1,537,480 total cubic yard/phase
- 102.5 total blasts
- 123.00 total ton explosives/phase
- 2.40 maximum ton explosives/day
- 136,786 total square feet blasted/phase
- 4,004 maximum square feet blasted/day

Emissions Calculations:

Pollutant	Source	Emission Factor	Units	Maximum Daily (lbs/day)	Annual (lbs/year)	Annual (ton/year)
VOC	1	N/A	lb/ton	—	—	—
NOx	1	17	lb/ton	40.80	2,090.97	1.05
CO	1	67	lb/ton	160.80	8,240.89	4.12
SOx	1	2	lb/ton	4.80	246.00	0.12
PM ₁₀	2	—	lb/blast	1.84	368.30	0.18
PM _{2.5}	2	—	lb/blast	0.11	21.25	0.01

Source/Reference:

1. AP-42, Section 13.3, Table 13.3-1 for ANFO.
2. AP-42, Section 11.9, Table 11.9-1.
 $PM_{10} = 0.52 \times 0.000014 \times (A)^{1.5}$, where A is the horizontal area blasted.
 $PM_{2.5} = 0.03 \times 0.000014 \times (A)^{1.5}$, where A is the horizontal area blasted.

Notes:

lb = pounds

GHG Emissions Calculation Comparison:

Pollutant	Source	Emission Factor	Units	Maximum Daily (lbs/day)	Annual (lbs/year)	Annual (MT/year)
CO ₂	1	10.35	kg/gallon	--	--	20.62
CO ₂	2	0.1670	MT/MT	--	--	18.64

Source/Reference:

1. The Climate Registry. 2018 Emission Factors. Table 12.1 U.S. Default Factors for Calculating CO2 Emissions from Combustion of Fossil Fuel and Biomass.
2. Australian Government - Department of Heritage Australian Greenhouse Office. *AGO Factors and Methods Workbook*. December 2006

Conversion Values:

7.41 lbs/gallon fuel oil
6.00% composition of fuel oil #2 in ANFO
10.35 kg CO2/gallon fuel oil #2
2000 lbs/ton
1000 kg/MT
1.102 tons/MT

Notes:

MT = metric tons

kg = kilograms

lb = pounds

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Boulder Brush Construction Unmitigated. 2016 RPS for SDG&E

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by bio report.

Land Use Change -

Construction Off-road Equipment Mitigation - Construction PDF-AQ-1 fugitive dust control measures. M-AQ-1 tier 4 final equipment

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
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tblFleetMix	MCY	6.1810e-003	6.0900e-003
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tblFleetMix	MH	1.2710e-003	1.1930e-003
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9020e-003	1.9120e-003
tblFleetMix	SBUS	7.4500e-004	7.4800e-004
tblFleetMix	UBUS	2.0240e-003	1.9720e-003
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tblGrading	AcresOfGrading	21.88	177.82
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tblVehicleEF	LDA	0.07	0.06
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tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	2.9730e-003	2.8590e-003
tblVehicleEF	LDA	6.3200e-004	6.0800e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	7.4330e-003	6.9480e-003
tblVehicleEF	LDA	0.01	9.3860e-003
tblVehicleEF	LDA	0.66	0.63
tblVehicleEF	LDA	1.88	1.73
tblVehicleEF	LDA	277.81	267.16
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07

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tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.13
tblVehicleEF	LDA	2.7830e-003	2.6760e-003
tblVehicleEF	LDA	6.3900e-004	6.1500e-004
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.14
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.51	1.39
tblVehicleEF	LDT1	3.68	3.36
tblVehicleEF	LDT1	349.50	340.08
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.22	0.20

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tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.26	0.24
tblVehicleEF	LDT1	3.5140e-003	3.4180e-003
tblVehicleEF	LDT1	8.1400e-004	7.9200e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.29	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.66	1.54
tblVehicleEF	LDT1	3.02	2.76
tblVehicleEF	LDT1	368.39	358.51
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003

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tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	3.7050e-003	3.6040e-003
tblVehicleEF	LDT1	8.0300e-004	7.8200e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.48	1.37
tblVehicleEF	LDT1	3.96	3.61
tblVehicleEF	LDT1	346.09	336.75
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003

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tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.28	0.25
tblVehicleEF	LDT1	3.4790e-003	3.3840e-003
tblVehicleEF	LDT1	8.1900e-004	7.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT2	6.7070e-003	6.2050e-003
tblVehicleEF	LDT2	8.5260e-003	7.5060e-003
tblVehicleEF	LDT2	0.78	0.73
tblVehicleEF	LDT2	1.77	1.59
tblVehicleEF	LDT2	393.35	380.39
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003

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tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	3.9390e-003	3.8090e-003
tblVehicleEF	LDT2	8.7900e-004	8.5000e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.13	0.11
tblVehicleEF	LDT2	7.2030e-003	6.6680e-003
tblVehicleEF	LDT2	7.4120e-003	6.5270e-003
tblVehicleEF	LDT2	0.87	0.82
tblVehicleEF	LDT2	1.47	1.31
tblVehicleEF	LDT2	415.21	401.53
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003

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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	4.1590e-003	4.0210e-003
tblVehicleEF	LDT2	8.7400e-004	8.4500e-004
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	6.6010e-003	6.1060e-003
tblVehicleEF	LDT2	8.9850e-003	7.9100e-003
tblVehicleEF	LDT2	0.76	0.72
tblVehicleEF	LDT2	1.90	1.70
tblVehicleEF	LDT2	389.40	376.56
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.16	0.14
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.03	0.03

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tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	3.8990e-003	3.7700e-003
tblVehicleEF	LDT2	8.8200e-004	8.5200e-004
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.30	1.20
tblVehicleEF	LHD1	2.67	2.51
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.87	1.74
tblVehicleEF	LHD1	0.97	0.93
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.27	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5100e-004	3.4000e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.30	0.28
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.32	1.22

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tblVehicleEF	LHD1	2.52	2.37
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.79	1.67
tblVehicleEF	LHD1	0.92	0.89
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.26	0.24
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.4900e-004	3.3800e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.29	0.27
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.29	1.20
tblVehicleEF	LHD1	2.74	2.57
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.86	1.73
tblVehicleEF	LHD1	0.99	0.95
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.28	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5300e-004	3.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.31	0.29
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.7230e-003	8.7750e-003
tblVehicleEF	LHD2	9.2800e-003	8.1910e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.33	1.22
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.23	1.07
tblVehicleEF	LHD2	0.55	0.51
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7100e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.8550e-003	8.8860e-003
tblVehicleEF	LHD2	8.8860e-003	7.8500e-003
tblVehicleEF	LHD2	0.13	0.12

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tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.26	1.16
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.18	1.03
tblVehicleEF	LHD2	0.52	0.49
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7700e-004	2.7000e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003

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tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.6650e-003	8.7260e-003
tblVehicleEF	LHD2	9.4580e-003	8.3440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.67	0.62
tblVehicleEF	LHD2	1.36	1.26
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.22	1.07
tblVehicleEF	LHD2	0.56	0.52
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004

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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7200e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.48	20.90
tblVehicleEF	MCY	9.67	9.69
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003

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tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	2.47	2.46
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	6.8700e-004	6.8300e-004
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	3.03	3.03
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.33	2.31
tblVehicleEF	MCY	0.46	0.47
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	20.40	19.88
tblVehicleEF	MCY	8.75	8.75
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.05	1.05
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	1.50	1.50

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tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.38	2.38
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	1.86	1.85
tblVehicleEF	MCY	2.2090e-003	2.2100e-003
tblVehicleEF	MCY	6.6400e-004	6.6000e-004
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.93	2.93
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	2.02	2.01
tblVehicleEF	MCY	0.48	0.49
tblVehicleEF	MCY	0.17	0.17
tblVehicleEF	MCY	22.23	21.61
tblVehicleEF	MCY	10.16	10.18
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.18	1.17
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03

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tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	2.52	2.50
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.28	2.26
tblVehicleEF	MCY	2.2420e-003	2.2410e-003
tblVehicleEF	MCY	6.9900e-004	6.9500e-004
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	3.09	3.08
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.48	2.46
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.31	1.18
tblVehicleEF	MDV	3.15	2.86
tblVehicleEF	MDV	521.37	506.28
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.29	0.26
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08

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tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	5.2220e-003	5.0690e-003
tblVehicleEF	MDV	1.1680e-003	1.1340e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	1.43	1.30
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	549.63	533.72
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.04	0.03

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tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	5.5060e-003	5.3450e-003
tblVehicleEF	MDV	1.1580e-003	1.1250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.29	1.16
tblVehicleEF	MDV	3.38	3.07
tblVehicleEF	MDV	516.26	501.32
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.30	0.27
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.12

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tblVehicleEF	MDV	0.26	0.23
tblVehicleEF	MDV	5.1710e-003	5.0200e-003
tblVehicleEF	MDV	1.1720e-003	1.1370e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.28	0.25
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.45	3.71
tblVehicleEF	MH	7.68	7.07
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.01	0.97
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.18	0.15

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6700e-004	7.3200e-004
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.51	0.45
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.56	3.84
tblVehicleEF	MH	7.19	6.60
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.68	1.60
tblVehicleEF	MH	0.96	0.92
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03

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tblVehicleEF	MH	0.19	0.16
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.39
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5800e-004	7.2400e-004
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.26	0.22
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.42	3.66
tblVehicleEF	MH	7.93	7.29
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.03	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13

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tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7100e-004	7.3500e-004
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.46
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2830e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.65	0.45
tblVehicleEF	MHD	7.28	6.60
tblVehicleEF	MHD	149.39	146.10
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.97	0.62
tblVehicleEF	MHD	2.26	1.59
tblVehicleEF	MHD	11.17	11.06
tblVehicleEF	MHD	2.9800e-003	7.6400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004

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tblVehicleEF	MHD	2.8510e-003	7.3100e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.43	0.39
tblVehicleEF	MHD	1.4370e-003	1.4060e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0700e-004	6.9300e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.48	0.43
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.3910e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.66	0.45
tblVehicleEF	MHD	6.84	6.20
tblVehicleEF	MHD	158.23	154.74

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tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	1.00	0.64
tblVehicleEF	MHD	2.18	1.53
tblVehicleEF	MHD	11.12	11.01
tblVehicleEF	MHD	2.5120e-003	6.4400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.4030e-003	6.1600e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	1.5200e-003	1.4870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9900e-004	6.8600e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02

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tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2360e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.59	0.50
tblVehicleEF	MHD	0.65	0.44
tblVehicleEF	MHD	7.48	6.77
tblVehicleEF	MHD	137.16	134.14
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.92	0.60
tblVehicleEF	MHD	2.25	1.58
tblVehicleEF	MHD	11.19	11.08
tblVehicleEF	MHD	3.6260e-003	9.2900e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	3.4690e-003	8.8900e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.12	0.06
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	1.3220e-003	1.2930e-003

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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	6.9600e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.49	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.94	0.82
tblVehicleEF	OBUS	6.81	6.39
tblVehicleEF	OBUS	107.53	108.17
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.64	0.57
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.51	2.43
tblVehicleEF	OBUS	2.9900e-004	2.0000e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.8600e-004	1.9100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004

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tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.0380e-003	1.0440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1800e-004	8.0500e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.47	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.96	0.84
tblVehicleEF	OBUS	6.38	5.98
tblVehicleEF	OBUS	112.91	113.58
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.66	0.59

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tblVehicleEF	OBUS	2.08	1.76
tblVehicleEF	OBUS	2.46	2.38
tblVehicleEF	OBUS	2.5200e-004	1.6800e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.4100e-004	1.6100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.41	0.38
tblVehicleEF	OBUS	1.0900e-003	1.0960e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1100e-004	7.9800e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.45	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01

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tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.31
tblVehicleEF	OBUS	0.94	0.81
tblVehicleEF	OBUS	7.01	6.58
tblVehicleEF	OBUS	100.11	100.69
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.61	0.54
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.54	2.45
tblVehicleEF	OBUS	3.6400e-004	2.4300e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	3.4800e-004	2.3200e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.44	0.41
tblVehicleEF	OBUS	9.6700e-004	9.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	8.0800e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003

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tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.44
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	6.15	6.28
tblVehicleEF	SBUS	1.17	1.09
tblVehicleEF	SBUS	7.72	7.52
tblVehicleEF	SBUS	1,247.19	1,232.55
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.29	11.52
tblVehicleEF	SBUS	5.27	4.87
tblVehicleEF	SBUS	14.90	14.64
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003

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tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.76
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	5.3300e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.43	0.42
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	6.00	6.14
tblVehicleEF	SBUS	1.19	1.11
tblVehicleEF	SBUS	6.04	5.88
tblVehicleEF	SBUS	1,309.86	1,293.97
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.69	11.89
tblVehicleEF	SBUS	5.07	4.69

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tblVehicleEF	SBUS	14.87	14.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.75
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.33
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.9500e-004	5.0600e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.06	1.08
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.38	0.36
tblVehicleEF	SBUS	0.88	0.87

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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	6.36	6.48
tblVehicleEF	SBUS	1.16	1.08
tblVehicleEF	SBUS	8.56	8.33
tblVehicleEF	SBUS	1,160.65	1,147.74
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	11.75	11.01
tblVehicleEF	SBUS	5.25	4.85
tblVehicleEF	SBUS	14.92	14.65
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.75	0.76
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.41
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.3700e-004	5.4700e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.45
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	8.55	8.13
tblVehicleEF	UBUS	6.93	6.99
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.97	8.18
tblVehicleEF	UBUS	14.67	14.39
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	0.67	0.61

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tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1880e-003	1.2270e-003
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	2.75	2.56
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.66	0.67
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	8.57	8.15
tblVehicleEF	UBUS	5.91	5.97
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.65	7.89
tblVehicleEF	UBUS	14.62	14.34
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003

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tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1710e-003	1.2090e-003
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	2.75	2.57
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.60	0.60
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	8.54	8.12
tblVehicleEF	UBUS	7.38	7.45
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.92	8.14
tblVehicleEF	UBUS	14.70	14.42
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05

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tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.62	0.63
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1960e-003	1.2350e-003
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	2.74	2.56
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.68	0.69

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2896	2.9024	2.0476	5.1900e-003	0.9206	0.1267	1.0474	0.3996	0.1186	0.5183	0.0000	474.2606	474.2606	0.0789	0.0000	476.2342
2020	0.0151	0.1015	0.1042	4.3000e-004	0.0399	2.9500e-003	0.0429	0.0104	2.9200e-003	0.0133	0.0000	39.8832	39.8832	2.0500e-003	0.0000	39.9344
Maximum	0.2896	2.9024	2.0476	5.1900e-003	0.9206	0.1267	1.0474	0.3996	0.1186	0.5183	0.0000	474.2606	474.2606	0.0789	0.0000	476.2342

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1052	0.7274	2.0925	5.1900e-003	0.4958	0.0168	0.5125	0.1915	0.0165	0.2080	0.0000	474.2603	474.2603	0.0789	0.0000	476.2339
2020	0.0151	0.1015	0.1042	4.3000e-004	0.0399	2.9500e-003	0.0429	0.0104	2.9200e-003	0.0133	0.0000	39.8832	39.8832	2.0500e-003	0.0000	39.9344
Maximum	0.1052	0.7274	2.0925	5.1900e-003	0.4958	0.0168	0.5125	0.1915	0.0165	0.2080	0.0000	474.2603	474.2603	0.0789	0.0000	476.2339

	ROG	NOx	CO	SO2	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	60.52	72.41	-2.09	0.00	44.23	84.78	49.06	50.76	84.00	58.36	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2019	11-30-2019	2.4273	0.5292
2	12-1-2019	2-29-2020	0.9181	0.4317
		Highest	2.4273	0.5292

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.0528	9.1900e-003	0.0239	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9069	12.2319	0.0230	2.5000e-004	12.8800

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.0528	9.1900e-003	0.0239	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9069	12.2319	0.0230	2.5000e-004	12.8800

[illegible]

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2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 1,017.692 0
Total	- 1,017.692 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	Boulder Clearing and Grading	Grading	9/21/2019	10/26/2019	5	25	
2	Boulder Construction Access Roads	Grading	10/13/2019	12/21/2019	5	50	
3	Boulder Foundation Construction and Tower Erection	Building Construction	11/3/2019	12/28/2019	5	40	
4	Boulder Stringing and Pulling	Building Construction	12/8/2019	2/2/2020	5	40	

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

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Boulder Clearing and Grading	Graders	2	7.00	187	0.41
Boulder Clearing and Grading	Rubber Tired Dozers	4	8.00	247	0.40
Boulder Clearing and Grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Boulder Construction Access Roads	Pavers	1	8.00	130	0.42
Boulder Construction Access Roads	Paving Equipment	4	8.00	132	0.36
Boulder Construction Access Roads	Pumps	1	7.00	84	0.74
Boulder Construction Access Roads	Rollers	4	8.00	80	0.38
Boulder Construction Access Roads	Scrapers	2	8.00	367	0.48
Boulder Foundation Construction and Tower Erection	Air Compressors	1	7.00	78	0.48
Boulder Foundation Construction and Tower Erection	Forklifts	1	8.00	89	0.20
Boulder Foundation Construction and Tower Erection	Generator Sets	2	6.00	84	0.74
Boulder Foundation Construction and Tower Erection	Pumps	1	7.00	84	0.74
Boulder Foundation Construction and Tower Erection	Welders	1	7.00	46	0.45
Boulder Stringing and Pulling	Air Compressors	1	7.00	78	0.48
Boulder Stringing and Pulling	Welders	1	7.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Boulder Clearing and Grading	10	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Clearing and Grading	10	48.00	20.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	48.00	10.00	32.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Tower	6	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Tower	6	96.00	10.00	30.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	72.00	10.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Boulder Brush Construction Mitigated - San Diego County, Annual

3.2 Boulder Clearing and Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.6965	0.0000	0.6965	0.3412	0.0000	0.3412	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0776	0.8499	0.3552	7.1000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	63.6045	63.6045	0.0201	0.0000	64.1076
Total	0.0776	0.8499	0.3552	7.1000e-004	0.6965	0.0409	0.7374	0.3412	0.0376	0.3788	0.0000	63.6045	63.6045	0.0201	0.0000	64.1076

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0209	8.0000e-005	0.0210	5.3700e-003	7.0000e-005	5.4400e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	0.0109	0.1411	0.0728	5.5000e-004	0.0430	1.6800e-003	0.0447	0.0113	1.6000e-003	0.0129	0.0000	53.2382	53.2382	2.5800e-003	0.0000	53.3027

Boulder Brush Construction Mitigated - San Diego County, Annual

3.2 Boulder Clearing and Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.2716	0.0000	0.2716	0.1331	0.0000	0.1331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6600e-003	0.0375	0.3592	7.1000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	63.6044	63.6044	0.0201	0.0000	64.1075
Total	8.6600e-003	0.0375	0.3592	7.1000e-004	0.2716	1.1600e-003	0.2728	0.1331	1.1600e-003	0.1342	0.0000	63.6044	63.6044	0.0201	0.0000	64.1075

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	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0209	8.0000e-005	0.0210	5.3700e-003	7.0000e-005	5.4400e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	0.0109	0.1411	0.0728	5.5000e-004	0.0430	1.6800e-003	0.0447	0.0113	1.6000e-003	0.0129	0.0000	53.2382	53.2382	2.5800e-003	0.0000	53.3027

Boulder Brush Construction Mitigated - San Diego County, Annual

3.3 Boulder Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1147	1.2574	1.0014	1.6900e-003		0.0603	0.0603		0.0559	0.0559	0.0000	151.0983	151.0983	0.0447	0.0000	152.2163
Total	0.1147	1.2574	1.0014	1.6900e-003	0.0000	0.0603	0.0603	0.0000	0.0559	0.0559	0.0000	151.0983	151.0983	0.0447	0.0000	152.2163

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0116	2.7100e-003	3.0000e-005	1.4400e-003	5.0000e-005	1.4900e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0419	1.5000e-004	0.0420	0.0107	1.4000e-004	0.0109	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0160	0.1566	0.1119	7.0000e-004	0.0654	1.8000e-003	0.0672	0.0171	1.7200e-003	0.0188	0.0000	66.9751	66.9751	3.1700e-003	0.0000	67.0543

Boulder Brush Construction Mitigated - San Diego County, Annual

3.3 Boulder Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0205	0.0886	1.0281	1.6900e-003		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003	0.0000	151.0981	151.0981	0.0447	0.0000	152.2161
Total	0.0205	0.0886	1.0281	1.6900e-003	0.0000	2.7300e-003	2.7300e-003	0.0000	2.7300e-003	2.7300e-003	0.0000	151.0981	151.0981	0.0447	0.0000	152.2161

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	3.6000e-004	0.0116	2.7100e-003	3.0000e-005	1.4400e-003	5.0000e-005	1.4900e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0419	1.5000e-004	0.0420	0.0107	1.4000e-004	0.0109	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0160	0.1566	0.1119	7.0000e-004	0.0654	1.8000e-003	0.0672	0.0171	1.7200e-003	0.0188	0.0000	66.9751	66.9751	3.1700e-003	0.0000	67.0543

Boulder Brush Construction Mitigated - San Diego County, Annual

3.4 Boulder Foundation Construction and Tower Erection - 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	tons/yr										MT/yr					
Off-Road	0.0377	0.2803	0.2763	4.6000e-004		0.0179	0.0179		0.0177	0.0177	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9358
Total	0.0377	0.2803	0.2763	4.6000e-004		0.0179	0.0179		0.0177	0.0177	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9358

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0108	2.5400e-003	3.0000e-005	1.3500e-003	5.0000e-005	1.4000e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	5.0200e-003	0.1097	0.0291	3.5000e-004	0.0177	1.2800e-003	0.0189	4.7800e-003	1.2200e-003	6.0000e-003	0.0000	34.3429	34.3429	1.8100e-003	0.0000	34.3883
Worker	0.0149	0.0126	0.1166	3.6000e-004	0.0670	2.5000e-004	0.0673	0.0172	2.3000e-004	0.0174	0.0000	32.9905	32.9905	1.0000e-003	0.0000	33.0156
Total	0.0203	0.1331	0.1482	7.4000e-004	0.0860	1.5800e-003	0.0876	0.0223	1.5000e-003	0.0238	0.0000	70.5466	70.5466	3.0700e-003	0.0000	70.6235

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3.4 Boulder Foundation Construction and Tower Erection - 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	tons/yr										MT/yr					
Off-Road	0.0165	0.0864	0.2905	4.6000e-004		5.2200e-003	5.2200e-003		5.2200e-003	5.2200e-003	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9357
Total	0.0165	0.0864	0.2905	4.6000e-004		5.2200e-003	5.2200e-003		5.2200e-003	5.2200e-003	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9357

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	3.3000e-004	0.0108	2.5400e-003	3.0000e-005	1.3500e-003	5.0000e-005	1.4000e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	5.0200e-003	0.1097	0.0291	3.5000e-004	0.0177	1.2800e-003	0.0189	4.7800e-003	1.2200e-003	6.0000e-003	0.0000	34.3429	34.3429	1.8100e-003	0.0000	34.3883
Worker	0.0149	0.0126	0.1166	3.6000e-004	0.0670	2.5000e-004	0.0673	0.0172	2.3000e-004	0.0174	0.0000	32.9905	32.9905	1.0000e-003	0.0000	33.0156
Total	0.0203	0.1331	0.1482	7.4000e-004	0.0860	1.5800e-003	0.0876	0.0223	1.5000e-003	0.0238	0.0000	70.5466	70.5466	3.0700e-003	0.0000	70.6235

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3.5 Boulder Stringing and Pulling - 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	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431
Total	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	3.0700e-003	7.2000e-004	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.9104	0.9104	7.0000e-005	0.0000	0.9122
Vendor	2.1300e-003	0.0466	0.0124	1.5000e-004	7.5100e-003	5.4000e-004	8.0500e-003	2.0300e-003	5.2000e-004	2.5500e-003	0.0000	14.5957	14.5957	7.7000e-004	0.0000	14.6150
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0214	8.0000e-005	0.0214	5.4700e-003	7.0000e-005	5.5500e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.9700e-003	0.0537	0.0502	2.8000e-004	0.0297	6.3000e-004	0.0303	7.7100e-003	6.0000e-004	8.3200e-003	0.0000	26.0219	26.0219	1.1600e-003	0.0000	26.0510

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3.5 Boulder Stringing and Pulling - 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	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431
Total	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431

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	9.0000e-005	3.0700e-003	7.2000e-004	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.9104	0.9104	7.0000e-005	0.0000	0.9122
Vendor	2.1300e-003	0.0466	0.0124	1.5000e-004	7.5100e-003	5.4000e-004	8.0500e-003	2.0300e-003	5.2000e-004	2.5500e-003	0.0000	14.5957	14.5957	7.7000e-004	0.0000	14.6150
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0214	8.0000e-005	0.0214	5.4700e-003	7.0000e-005	5.5500e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.9700e-003	0.0537	0.0502	2.8000e-004	0.0297	6.3000e-004	0.0303	7.7100e-003	6.0000e-004	8.3200e-003	0.0000	26.0219	26.0219	1.1600e-003	0.0000	26.0510

Boulder Brush Construction Mitigated - San Diego County, Annual

3.5 Boulder Stringing and Pulling - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332
Total	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	3.8100e-003	9.6000e-004	1.0000e-005	8.4000e-004	1.0000e-005	8.6000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2168	1.2168	1.0000e-004	0.0000	1.2193
Vendor	2.2500e-003	0.0544	0.0148	2.0000e-004	0.0102	4.7000e-004	0.0106	2.7500e-003	4.5000e-004	3.2000e-003	0.0000	19.5694	19.5694	1.0100e-003	0.0000	19.5947
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0289	1.0000e-004	0.0290	7.4100e-003	1.0000e-004	7.5000e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.3900e-003	0.0631	0.0618	3.6000e-004	0.0399	5.8000e-004	0.0405	0.0104	5.6000e-004	0.0109	0.0000	34.5636	34.5636	1.5000e-003	0.0000	34.6012

Boulder Brush Construction Mitigated - San Diego County, Annual

3.5 Boulder Stringing and Pulling - 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	tons/yr										MT/yr					
Off-Road	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332
Total	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332

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	1.2000e-004	3.8100e-003	9.6000e-004	1.0000e-005	8.4000e-004	1.0000e-005	8.6000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2168	1.2168	1.0000e-004	0.0000	1.2193
Vendor	2.2500e-003	0.0544	0.0148	2.0000e-004	0.0102	4.7000e-004	0.0106	2.7500e-003	4.5000e-004	3.2000e-003	0.0000	19.5694	19.5694	1.0100e-003	0.0000	19.5947
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0289	1.0000e-004	0.0290	7.4100e-003	1.0000e-004	7.5000e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.3900e-003	0.0631	0.0618	3.6000e-004	0.0399	5.8000e-004	0.0405	0.0104	5.6000e-004	0.0109	0.0000	34.5636	34.5636	1.5000e-003	0.0000	34.6012

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Unmitigated	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
NaturalGas Mitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
NaturalGas Unmitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

7.0 Water Detail**7.1 Mitigation Measures Water**

Boulder Brush Construction Mitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6966	7.5700e-003	1.9000e-004	0.9414
Unmitigated	0.6966	7.5700e-003	1.9000e-004	0.9414

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2517	0.0149	0.0000	0.6236
Unmitigated	0.2517	0.0149	0.0000	0.6236

Boulder Brush Construction Mitigated - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Total		0.2517	0.0149	0.0000	0.6236

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Total		0.2517	0.0149	0.0000	0.6236

9.0 Operational Offroad

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

Boulder Brush Construction Mitigated - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 1,017.692 0	0.0000	0.0000	- 1,017.692 0

11.1 Vegetation Land Change**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Scrub	57.04 / 0	-815.6720	0.0000	0.0000	-815.6720
Trees	1.82 / 0	-202.0200	0.0000	0.0000	-202.0200
Total		- 1,017.692 0	0.0000	0.0000	- 1,017.692 0

Boulder Brush Construction Mitigated - San Diego County, Summer

Boulder Brush Construction Mitigated

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Construction Mitigated - San Diego County, Summer

Project Characteristics - Boulder Brush Construction Unmitigated. 2016 RPS for SDG&E

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by bio report.

Land Use Change -

Construction Off-road Equipment Mitigation - Construction PDF-AQ-1 fugitive dust control measures. M-AQ-1 tier 4 final equipment

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	0	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	2.00	50.00
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.59	0.59
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.5580e-003	5.5130e-003
tblFleetMix	MCY	6.1810e-003	6.0900e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	1.2710e-003	1.1930e-003
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9020e-003	1.9120e-003
tblFleetMix	SBUS	7.4500e-004	7.4800e-004
tblFleetMix	UBUS	2.0240e-003	1.9720e-003
tblGrading	AcresOfGrading	21.88	0.00

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tblGrading	AcresOfGrading	21.88	177.82
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Boulder Clearing and Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00

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tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblVehicleEF	HHD	0.81	0.78
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	2.77	2.62
tblVehicleEF	HHD	1.15	1.15

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tblVehicleEF	HHD	3.66	3.46
tblVehicleEF	HHD	4,760.03	4,715.65
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.16	21.83
tblVehicleEF	HHD	4.29	3.83
tblVehicleEF	HHD	19.63	19.62
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.69	0.65
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6700e-004	1.6000e-004
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.81	0.77

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tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.77	0.73
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	2.02	1.91
tblVehicleEF	HHD	1.16	1.16
tblVehicleEF	HHD	3.44	3.25
tblVehicleEF	HHD	5,039.91	4,994.00
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.90	22.53
tblVehicleEF	HHD	4.13	3.69
tblVehicleEF	HHD	19.62	19.60
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.65	0.61
tblVehicleEF	HHD	1.9000e-004	1.6700e-004

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tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6400e-004	1.5700e-004
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.76	0.72
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.88	0.84
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	3.81	3.61
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.76	3.55
tblVehicleEF	HHD	4,373.53	4,331.26
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	22.14	20.87
tblVehicleEF	HHD	4.28	3.82
tblVehicleEF	HHD	19.64	19.62
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06

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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.74	0.70
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6900e-004	1.6200e-004
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.87	0.83
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.14	0.12
tblVehicleEF	LDA	7.5560e-003	7.0640e-003
tblVehicleEF	LDA	9.8610e-003	8.9160e-003
tblVehicleEF	LDA	0.67	0.64
tblVehicleEF	LDA	1.76	1.61
tblVehicleEF	LDA	280.70	269.94

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tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	2.8120e-003	2.7040e-003
tblVehicleEF	LDA	6.3700e-004	6.1300e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	8.1310e-003	7.6050e-003
tblVehicleEF	LDA	8.5880e-003	7.7690e-003
tblVehicleEF	LDA	0.75	0.72
tblVehicleEF	LDA	1.46	1.34
tblVehicleEF	LDA	296.71	285.32
tblVehicleEF	LDA	60.62	58.50

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tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	2.9730e-003	2.8590e-003
tblVehicleEF	LDA	6.3200e-004	6.0800e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	7.4330e-003	6.9480e-003
tblVehicleEF	LDA	0.01	9.3860e-003
tblVehicleEF	LDA	0.66	0.63
tblVehicleEF	LDA	1.88	1.73
tblVehicleEF	LDA	277.81	267.16
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07

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tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.13
tblVehicleEF	LDA	2.7830e-003	2.6760e-003
tblVehicleEF	LDA	6.3900e-004	6.1500e-004
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.14
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.51	1.39
tblVehicleEF	LDT1	3.68	3.36
tblVehicleEF	LDT1	349.50	340.08
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.22	0.20

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tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.26	0.24
tblVehicleEF	LDT1	3.5140e-003	3.4180e-003
tblVehicleEF	LDT1	8.1400e-004	7.9200e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.29	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.66	1.54
tblVehicleEF	LDT1	3.02	2.76
tblVehicleEF	LDT1	368.39	358.51
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003

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tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	3.7050e-003	3.6040e-003
tblVehicleEF	LDT1	8.0300e-004	7.8200e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.48	1.37
tblVehicleEF	LDT1	3.96	3.61
tblVehicleEF	LDT1	346.09	336.75
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.28	0.25
tblVehicleEF	LDT1	3.4790e-003	3.3840e-003
tblVehicleEF	LDT1	8.1900e-004	7.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT2	6.7070e-003	6.2050e-003
tblVehicleEF	LDT2	8.5260e-003	7.5060e-003
tblVehicleEF	LDT2	0.78	0.73
tblVehicleEF	LDT2	1.77	1.59
tblVehicleEF	LDT2	393.35	380.39
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003

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tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	3.9390e-003	3.8090e-003
tblVehicleEF	LDT2	8.7900e-004	8.5000e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.13	0.11
tblVehicleEF	LDT2	7.2030e-003	6.6680e-003
tblVehicleEF	LDT2	7.4120e-003	6.5270e-003
tblVehicleEF	LDT2	0.87	0.82
tblVehicleEF	LDT2	1.47	1.31
tblVehicleEF	LDT2	415.21	401.53
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003

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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	4.1590e-003	4.0210e-003
tblVehicleEF	LDT2	8.7400e-004	8.4500e-004
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	6.6010e-003	6.1060e-003
tblVehicleEF	LDT2	8.9850e-003	7.9100e-003
tblVehicleEF	LDT2	0.76	0.72
tblVehicleEF	LDT2	1.90	1.70
tblVehicleEF	LDT2	389.40	376.56
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.16	0.14
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.03	0.03

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tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	3.8990e-003	3.7700e-003
tblVehicleEF	LDT2	8.8200e-004	8.5200e-004
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.30	1.20
tblVehicleEF	LHD1	2.67	2.51
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.87	1.74
tblVehicleEF	LHD1	0.97	0.93
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.27	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5100e-004	3.4000e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.30	0.28
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.32	1.22

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tblVehicleEF	LHD1	2.52	2.37
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.79	1.67
tblVehicleEF	LHD1	0.92	0.89
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.26	0.24
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.4900e-004	3.3800e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.29	0.27
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.29	1.20
tblVehicleEF	LHD1	2.74	2.57
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.86	1.73
tblVehicleEF	LHD1	0.99	0.95
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.28	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5300e-004	3.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.31	0.29
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.7230e-003	8.7750e-003
tblVehicleEF	LHD2	9.2800e-003	8.1910e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.33	1.22
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.23	1.07
tblVehicleEF	LHD2	0.55	0.51
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7100e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.8550e-003	8.8860e-003
tblVehicleEF	LHD2	8.8860e-003	7.8500e-003
tblVehicleEF	LHD2	0.13	0.12

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tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.26	1.16
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.18	1.03
tblVehicleEF	LHD2	0.52	0.49
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7700e-004	2.7000e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003

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tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.6650e-003	8.7260e-003
tblVehicleEF	LHD2	9.4580e-003	8.3440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.67	0.62
tblVehicleEF	LHD2	1.36	1.26
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.22	1.07
tblVehicleEF	LHD2	0.56	0.52
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004

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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7200e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.48	20.90
tblVehicleEF	MCY	9.67	9.69
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003

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tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	2.47	2.46
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	6.8700e-004	6.8300e-004
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	3.03	3.03
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.33	2.31
tblVehicleEF	MCY	0.46	0.47
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	20.40	19.88
tblVehicleEF	MCY	8.75	8.75
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.05	1.05
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	1.50	1.50

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tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.38	2.38
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	1.86	1.85
tblVehicleEF	MCY	2.2090e-003	2.2100e-003
tblVehicleEF	MCY	6.6400e-004	6.6000e-004
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.93	2.93
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	2.02	2.01
tblVehicleEF	MCY	0.48	0.49
tblVehicleEF	MCY	0.17	0.17
tblVehicleEF	MCY	22.23	21.61
tblVehicleEF	MCY	10.16	10.18
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.18	1.17
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03

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tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	2.52	2.50
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.28	2.26
tblVehicleEF	MCY	2.2420e-003	2.2410e-003
tblVehicleEF	MCY	6.9900e-004	6.9500e-004
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	3.09	3.08
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.48	2.46
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.31	1.18
tblVehicleEF	MDV	3.15	2.86
tblVehicleEF	MDV	521.37	506.28
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.29	0.26
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08

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tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	5.2220e-003	5.0690e-003
tblVehicleEF	MDV	1.1680e-003	1.1340e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	1.43	1.30
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	549.63	533.72
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.04	0.03

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tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	5.5060e-003	5.3450e-003
tblVehicleEF	MDV	1.1580e-003	1.1250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.29	1.16
tblVehicleEF	MDV	3.38	3.07
tblVehicleEF	MDV	516.26	501.32
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.30	0.27
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.12

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tblVehicleEF	MDV	0.26	0.23
tblVehicleEF	MDV	5.1710e-003	5.0200e-003
tblVehicleEF	MDV	1.1720e-003	1.1370e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.28	0.25
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.45	3.71
tblVehicleEF	MH	7.68	7.07
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.01	0.97
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.18	0.15

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6700e-004	7.3200e-004
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.51	0.45
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.56	3.84
tblVehicleEF	MH	7.19	6.60
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.68	1.60
tblVehicleEF	MH	0.96	0.92
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03

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tblVehicleEF	MH	0.19	0.16
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.39
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5800e-004	7.2400e-004
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.26	0.22
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.42	3.66
tblVehicleEF	MH	7.93	7.29
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.03	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13

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tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7100e-004	7.3500e-004
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.46
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2830e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.65	0.45
tblVehicleEF	MHD	7.28	6.60
tblVehicleEF	MHD	149.39	146.10
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.97	0.62
tblVehicleEF	MHD	2.26	1.59
tblVehicleEF	MHD	11.17	11.06
tblVehicleEF	MHD	2.9800e-003	7.6400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	MHD	2.8510e-003	7.3100e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.43	0.39
tblVehicleEF	MHD	1.4370e-003	1.4060e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0700e-004	6.9300e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.48	0.43
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.3910e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.66	0.45
tblVehicleEF	MHD	6.84	6.20
tblVehicleEF	MHD	158.23	154.74

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	1.00	0.64
tblVehicleEF	MHD	2.18	1.53
tblVehicleEF	MHD	11.12	11.01
tblVehicleEF	MHD	2.5120e-003	6.4400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.4030e-003	6.1600e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	1.5200e-003	1.4870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9900e-004	6.8600e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2360e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.59	0.50
tblVehicleEF	MHD	0.65	0.44
tblVehicleEF	MHD	7.48	6.77
tblVehicleEF	MHD	137.16	134.14
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.92	0.60
tblVehicleEF	MHD	2.25	1.58
tblVehicleEF	MHD	11.19	11.08
tblVehicleEF	MHD	3.6260e-003	9.2900e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	3.4690e-003	8.8900e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.12	0.06
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	1.3220e-003	1.2930e-003

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	6.9600e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.49	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.94	0.82
tblVehicleEF	OBUS	6.81	6.39
tblVehicleEF	OBUS	107.53	108.17
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.64	0.57
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.51	2.43
tblVehicleEF	OBUS	2.9900e-004	2.0000e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.8600e-004	1.9100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.0380e-003	1.0440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1800e-004	8.0500e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.47	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.96	0.84
tblVehicleEF	OBUS	6.38	5.98
tblVehicleEF	OBUS	112.91	113.58
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.66	0.59

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	OBUS	2.08	1.76
tblVehicleEF	OBUS	2.46	2.38
tblVehicleEF	OBUS	2.5200e-004	1.6800e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.4100e-004	1.6100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.41	0.38
tblVehicleEF	OBUS	1.0900e-003	1.0960e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1100e-004	7.9800e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.45	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.31
tblVehicleEF	OBUS	0.94	0.81
tblVehicleEF	OBUS	7.01	6.58
tblVehicleEF	OBUS	100.11	100.69
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.61	0.54
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.54	2.45
tblVehicleEF	OBUS	3.6400e-004	2.4300e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	3.4800e-004	2.3200e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.44	0.41
tblVehicleEF	OBUS	9.6700e-004	9.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	8.0800e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.44
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	6.15	6.28
tblVehicleEF	SBUS	1.17	1.09
tblVehicleEF	SBUS	7.72	7.52
tblVehicleEF	SBUS	1,247.19	1,232.55
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.29	11.52
tblVehicleEF	SBUS	5.27	4.87
tblVehicleEF	SBUS	14.90	14.64
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.76
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	5.3300e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.43	0.42
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	6.00	6.14
tblVehicleEF	SBUS	1.19	1.11
tblVehicleEF	SBUS	6.04	5.88
tblVehicleEF	SBUS	1,309.86	1,293.97
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.69	11.89
tblVehicleEF	SBUS	5.07	4.69

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	SBUS	14.87	14.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.75
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.33
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.9500e-004	5.0600e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.06	1.08
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.38	0.36
tblVehicleEF	SBUS	0.88	0.87

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	6.36	6.48
tblVehicleEF	SBUS	1.16	1.08
tblVehicleEF	SBUS	8.56	8.33
tblVehicleEF	SBUS	1,160.65	1,147.74
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	11.75	11.01
tblVehicleEF	SBUS	5.25	4.85
tblVehicleEF	SBUS	14.92	14.65
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.75	0.76
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.41
tblVehicleEF	SBUS	0.01	0.01

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.3700e-004	5.4700e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.45
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	8.55	8.13
tblVehicleEF	UBUS	6.93	6.99
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.97	8.18
tblVehicleEF	UBUS	14.67	14.39
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	0.67	0.61

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1880e-003	1.2270e-003
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	2.75	2.56
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.66	0.67
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	8.57	8.15
tblVehicleEF	UBUS	5.91	5.97
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.65	7.89
tblVehicleEF	UBUS	14.62	14.34
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1710e-003	1.2090e-003
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	2.75	2.57
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.60	0.60
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	8.54	8.12
tblVehicleEF	UBUS	7.38	7.45
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.92	8.14
tblVehicleEF	UBUS	14.70	14.42
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05

Boulder Brush Construction Mitigated - San Diego County, Summer

tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.62	0.63
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1960e-003	1.2350e-003
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	2.74	2.56
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.68	0.69

2.0 Emissions Summary

Boulder Brush Construction Mitigated - San Diego County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.2808	135.2482	79.2337	0.1979	61.9276	5.8865	67.8141	28.9237	5.4394	34.3630	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470
2020	1.2956	8.6288	9.3972	0.0383	3.5575	0.2565	3.8140	0.9233	0.2540	1.1772	0.0000	3,899.4671	3,899.4671	0.1981	0.0000	3,904.4189
Maximum	12.2808	135.2482	79.2337	0.1979	61.9276	5.8865	67.8141	28.9237	5.4394	34.3630	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.7103	29.9742	80.6250	0.1979	27.9385	0.8323	28.3456	12.2730	0.8216	12.6707	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470
2020	1.2956	8.6288	9.3972	0.0383	3.5575	0.2565	3.8140	0.9233	0.2540	1.1772	0.0000	3,899.4671	3,899.4671	0.1981	0.0000	3,904.4189
Maximum	4.7103	29.9742	80.6250	0.1979	27.9385	0.8323	28.3456	12.2730	0.8216	12.6707	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470

	ROG	NOx	CO	SO2	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	55.76	73.17	-1.57	0.00	51.90	82.28	55.10	55.79	81.11	61.04	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Construction Mitigated - 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	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.2930	0.0611	0.1727	6.2000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		66.6095	66.6095	3.1300e-003	1.2000e-004	66.7233

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.2930	0.0611	0.1727	6.2000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		66.6095	66.6095	3.1300e-003	1.2000e-004	66.7233

Boulder Brush Construction Mitigated - 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	Boulder Clearing and Grading	Grading	9/21/2019	10/26/2019	5	25	
2	Boulder Construction Access Roads	Grading	10/13/2019	12/21/2019	5	50	
3	Boulder Foundation Construction and Tower Erection	Building Construction	11/3/2019	12/28/2019	5	40	
4	Boulder Stringing and Pulling	Building Construction	12/8/2019	2/2/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Boulder Brush Construction Mitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Boulder Clearing and Grading	Graders	2	7.00	187	0.41
Boulder Clearing and Grading	Rubber Tired Dozers	4	8.00	247	0.40
Boulder Clearing and Grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Boulder Construction Access Roads	Pavers	1	8.00	130	0.42
Boulder Construction Access Roads	Paving Equipment	4	8.00	132	0.36
Boulder Construction Access Roads	Pumps	1	7.00	84	0.74
Boulder Construction Access Roads	Rollers	4	8.00	80	0.38
Boulder Construction Access Roads	Scrapers	2	8.00	367	0.48
Boulder Foundation Construction and Tower Erection	Air Compressors	1	7.00	78	0.48
Boulder Foundation Construction and Tower Erection	Forklifts	1	8.00	89	0.20
Boulder Foundation Construction and Tower Erection	Generator Sets	2	6.00	84	0.74
Boulder Foundation Construction and Tower Erection	Pumps	1	7.00	84	0.74
Boulder Foundation Construction and Tower Erection	Welders	1	7.00	46	0.45
Boulder Stringing and Pulling	Air Compressors	1	7.00	78	0.48
Boulder Stringing and Pulling	Welders	1	7.00	46	0.45

Trips and VMT

Boulder Brush Construction Mitigated - San Diego County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Boulder Clearing and Grading	10	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Clearing and Grading	10	48.00	20.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	48.00	10.00	32.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	96.00	10.00	30.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	72.00	10.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Boulder Brush Construction Mitigated - San Diego County, Summer

3.2 Boulder Clearing and Grading - 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					
Fugitive Dust					55.7198	0.0000	55.7198	27.2963	0.0000	27.2963			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090		5,608.9579	5,608.9579	1.7746		5,653.3233
Total	6.2050	67.9928	28.4123	0.0566	55.7198	3.2706	58.9904	27.2963	3.0090	30.3053		5,608.9579	5,608.9579	1.7746		5,653.3233

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	0.4996	10.6277	2.8898	0.0354	1.8072	0.1275	1.9347	0.4879	0.1220	0.6099		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.8619	10.9122	6.0514	0.0451	3.5263	0.1336	3.6599	0.9280	0.1276	1.0556		4,751.3892	4,751.3892	0.2283		4,757.0970

Boulder Brush Construction Mitigated - San Diego County, Summer

3.2 Boulder Clearing and Grading - 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					
Fugitive Dust					21.7307	0.0000	21.7307	10.6456	0.0000	10.6456			0.0000			0.0000
Off-Road	0.6931	3.0035	28.7376	0.0566		0.0924	0.0924		0.0924	0.0924	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233
Total	0.6931	3.0035	28.7376	0.0566	21.7307	0.0924	21.8232	10.6456	0.0924	10.7380	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233

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	0.4996	10.6277	2.8898	0.0354	1.8072	0.1275	1.9347	0.4879	0.1220	0.6099		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.8619	10.9122	6.0514	0.0451	3.5263	0.1336	3.6599	0.9280	0.1276	1.0556		4,751.3892	4,751.3892	0.2283		4,757.0970

Boulder Brush Construction Mitigated - San Diego County, Summer

3.3 Boulder Construction Access Roads - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5877	50.2966	40.0560	0.0675		2.4103	2.4103		2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909
Total	4.5877	50.2966	40.0560	0.0675	0.0000	2.4103	2.4103	0.0000	2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909

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	0.0142	0.4484	0.1075	1.3900e-003	0.0589	2.0800e-003	0.0610	0.0154	1.9900e-003	0.0174		151.5119	151.5119	0.0120		151.8113
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.6263	6.0467	4.7139	0.0287	2.6816	0.0720	2.7535	0.6994	0.0686	0.7681		3,006.9158	3,006.9158	0.1408		3,010.4358

Boulder Brush Construction Mitigated - San Diego County, Summer

3.3 Boulder Construction Access Roads - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8180	3.5446	41.1221	0.0675		0.1091	0.1091		0.1091	0.1091	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909
Total	0.8180	3.5446	41.1221	0.0675	0.0000	0.1091	0.1091	0.0000	0.1091	0.1091	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909

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	0.0142	0.4484	0.1075	1.3900e-003	0.0589	2.0800e-003	0.0610	0.0154	1.9900e-003	0.0174		151.5119	151.5119	0.0120		151.8113
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.6263	6.0467	4.7139	0.0287	2.6816	0.0720	2.7535	0.6994	0.0686	0.7681		3,006.9158	3,006.9158	0.1408		3,010.4358

Boulder Brush Construction Mitigated - San Diego County, Summer

3.4 Boulder Foundation Construction and Tower Erection - 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	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669
Total	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669

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	0.0166	0.5254	0.1259	1.6300e-003	0.0690	2.4300e-003	0.0715	0.0181	2.3300e-003	0.0204		177.5531	177.5531	0.0140		177.9039
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.7246	0.5690	6.3231	0.0193	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9910	6.4083	7.8940	0.0386	4.4107	0.0785	4.4892	1.1421	0.0747	1.2168		3,992.3755	3,992.3755	0.1722		3,996.6806

Boulder Brush Construction Mitigated - San Diego County, Summer

3.4 Boulder Foundation Construction and Tower Erection - 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	0.8229	4.3211	14.5249	0.0229		0.2608	0.2608		0.2608	0.2608	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	0.8229	4.3211	14.5249	0.0229		0.2608	0.2608		0.2608	0.2608	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669

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	0.0166	0.5254	0.1259	1.6300e-003	0.0690	2.4300e-003	0.0715	0.0181	2.3300e-003	0.0204		177.5531	177.5531	0.0140		177.9039
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.7246	0.5690	6.3231	0.0193	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9910	6.4083	7.8940	0.0386	4.4107	0.0785	4.4892	1.1421	0.0747	1.2168		3,992.3755	3,992.3755	0.1722		3,996.6806

Boulder Brush Construction Mitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511

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	0.0111	0.3503	0.0840	1.0800e-003	0.0997	1.6200e-003	0.1013	0.0252	1.5500e-003	0.0268		118.3687	118.3687	9.3600e-003		118.6026
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.5434	0.4268	4.7424	0.0144	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,439.1279	1,439.1279	0.0440		1,440.2282
Total	0.8043	6.0909	6.2712	0.0332	3.5818	0.0746	3.6564	0.9293	0.0710	1.0003		3,453.4819	3,453.4819	0.1529		3,457.3032

Boulder Brush Construction Mitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511

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	0.0111	0.3503	0.0840	1.0800e-003	0.0997	1.6200e-003	0.1013	0.0252	1.5500e-003	0.0268		118.3687	118.3687	9.3600e-003		118.6026
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.5434	0.4268	4.7424	0.0144	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,439.1279	1,439.1279	0.0440		1,440.2282
Total	0.8043	6.0909	6.2712	0.0332	3.5818	0.0746	3.6564	0.9293	0.0710	1.0003		3,453.4819	3,453.4819	0.1529		3,457.3032

Boulder Brush Construction Mitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055

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	0.0101	0.3216	0.0827	1.0700e-003	0.0753	1.2800e-003	0.0766	0.0192	1.2300e-003	0.0205		116.9439	116.9439	9.3500e-003		117.1775
Vendor	0.1946	4.5822	1.2827	0.0175	0.9036	0.0407	0.9443	0.2440	0.0389	0.2829		1,878.9669	1,878.9669	0.0966		1,881.3815
Worker	0.5090	0.3856	4.3490	0.0140	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.7137	5.2894	5.7144	0.0326	3.5575	0.0510	3.6085	0.9233	0.0485	0.9718		3,389.5680	3,389.5680	0.1458		3,393.2134

Boulder Brush Construction Mitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055

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	0.0101	0.3216	0.0827	1.0700e-003	0.0753	1.2800e-003	0.0766	0.0192	1.2300e-003	0.0205		116.9439	116.9439	9.3500e-003		117.1775
Vendor	0.1946	4.5822	1.2827	0.0175	0.9036	0.0407	0.9443	0.2440	0.0389	0.2829		1,878.9669	1,878.9669	0.0966		1,881.3815
Worker	0.5090	0.3856	4.3490	0.0140	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.7137	5.2894	5.7144	0.0326	3.5575	0.0510	3.6085	0.9233	0.0485	0.9718		3,389.5680	3,389.5680	0.1458		3,393.2134

4.0 Operational Detail - Mobile

Boulder Brush Construction Mitigated - 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	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Unmitigated	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Boulder Brush Construction Mitigated - San Diego County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Boulder Brush Construction Mitigated - 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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Boulder Brush Construction Mitigated - 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	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Boulder Brush Construction Mitigated - 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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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**Fire Pumps and Emergency Generators**

Boulder Brush Construction Mitigated - San Diego County, Summer

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

Boulder Brush Construction Mitigated - San Diego County, Winter

Boulder Brush Construction Mitigated
San Diego County, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Construction Mitigated - San Diego County, Winter

Project Characteristics - Boulder Brush Construction Unmitigated. 2016 RPS for SDG&E

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by bio report.

Land Use Change -

Construction Off-road Equipment Mitigation - Construction PDF-AQ-1 fugitive dust control measures. M-AQ-1 tier 4 final equipment

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	0	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Boulder Brush Construction Mitigated - San Diego County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	2.00	50.00
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.59	0.59
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.5580e-003	5.5130e-003
tblFleetMix	MCY	6.1810e-003	6.0900e-003
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	1.2710e-003	1.1930e-003
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9020e-003	1.9120e-003
tblFleetMix	SBUS	7.4500e-004	7.4800e-004
tblFleetMix	UBUS	2.0240e-003	1.9720e-003
tblGrading	AcresOfGrading	21.88	0.00

Boulder Brush Construction Mitigated - San Diego County, Winter

tblGrading	AcresOfGrading	21.88	177.82
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Boulder Clearing and Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00

Boulder Brush Construction Mitigated - San Diego County, Winter

tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblVehicleEF	HHD	0.81	0.78
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	2.77	2.62
tblVehicleEF	HHD	1.15	1.15

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	HHD	3.66	3.46
tblVehicleEF	HHD	4,760.03	4,715.65
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.16	21.83
tblVehicleEF	HHD	4.29	3.83
tblVehicleEF	HHD	19.63	19.62
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.69	0.65
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6700e-004	1.6000e-004
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.81	0.77

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tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.77	0.73
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	2.02	1.91
tblVehicleEF	HHD	1.16	1.16
tblVehicleEF	HHD	3.44	3.25
tblVehicleEF	HHD	5,039.91	4,994.00
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.90	22.53
tblVehicleEF	HHD	4.13	3.69
tblVehicleEF	HHD	19.62	19.60
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.65	0.61
tblVehicleEF	HHD	1.9000e-004	1.6700e-004

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tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6400e-004	1.5700e-004
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.76	0.72
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.88	0.84
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	3.81	3.61
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.76	3.55
tblVehicleEF	HHD	4,373.53	4,331.26
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	22.14	20.87
tblVehicleEF	HHD	4.28	3.82
tblVehicleEF	HHD	19.64	19.62
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06

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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.74	0.70
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6900e-004	1.6200e-004
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.87	0.83
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.14	0.12
tblVehicleEF	LDA	7.5560e-003	7.0640e-003
tblVehicleEF	LDA	9.8610e-003	8.9160e-003
tblVehicleEF	LDA	0.67	0.64
tblVehicleEF	LDA	1.76	1.61
tblVehicleEF	LDA	280.70	269.94

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tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	2.8120e-003	2.7040e-003
tblVehicleEF	LDA	6.3700e-004	6.1300e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	8.1310e-003	7.6050e-003
tblVehicleEF	LDA	8.5880e-003	7.7690e-003
tblVehicleEF	LDA	0.75	0.72
tblVehicleEF	LDA	1.46	1.34
tblVehicleEF	LDA	296.71	285.32
tblVehicleEF	LDA	60.62	58.50

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tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	2.9730e-003	2.8590e-003
tblVehicleEF	LDA	6.3200e-004	6.0800e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	7.4330e-003	6.9480e-003
tblVehicleEF	LDA	0.01	9.3860e-003
tblVehicleEF	LDA	0.66	0.63
tblVehicleEF	LDA	1.88	1.73
tblVehicleEF	LDA	277.81	267.16
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07

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tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.13
tblVehicleEF	LDA	2.7830e-003	2.6760e-003
tblVehicleEF	LDA	6.3900e-004	6.1500e-004
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.14
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.51	1.39
tblVehicleEF	LDT1	3.68	3.36
tblVehicleEF	LDT1	349.50	340.08
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.22	0.20

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tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.26	0.24
tblVehicleEF	LDT1	3.5140e-003	3.4180e-003
tblVehicleEF	LDT1	8.1400e-004	7.9200e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.29	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.66	1.54
tblVehicleEF	LDT1	3.02	2.76
tblVehicleEF	LDT1	368.39	358.51
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003

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tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	3.7050e-003	3.6040e-003
tblVehicleEF	LDT1	8.0300e-004	7.8200e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.48	1.37
tblVehicleEF	LDT1	3.96	3.61
tblVehicleEF	LDT1	346.09	336.75
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003

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tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.28	0.25
tblVehicleEF	LDT1	3.4790e-003	3.3840e-003
tblVehicleEF	LDT1	8.1900e-004	7.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT2	6.7070e-003	6.2050e-003
tblVehicleEF	LDT2	8.5260e-003	7.5060e-003
tblVehicleEF	LDT2	0.78	0.73
tblVehicleEF	LDT2	1.77	1.59
tblVehicleEF	LDT2	393.35	380.39
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003

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tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	3.9390e-003	3.8090e-003
tblVehicleEF	LDT2	8.7900e-004	8.5000e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.13	0.11
tblVehicleEF	LDT2	7.2030e-003	6.6680e-003
tblVehicleEF	LDT2	7.4120e-003	6.5270e-003
tblVehicleEF	LDT2	0.87	0.82
tblVehicleEF	LDT2	1.47	1.31
tblVehicleEF	LDT2	415.21	401.53
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003

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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	4.1590e-003	4.0210e-003
tblVehicleEF	LDT2	8.7400e-004	8.4500e-004
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	6.6010e-003	6.1060e-003
tblVehicleEF	LDT2	8.9850e-003	7.9100e-003
tblVehicleEF	LDT2	0.76	0.72
tblVehicleEF	LDT2	1.90	1.70
tblVehicleEF	LDT2	389.40	376.56
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.16	0.14
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.03	0.03

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tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	3.8990e-003	3.7700e-003
tblVehicleEF	LDT2	8.8200e-004	8.5200e-004
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.30	1.20
tblVehicleEF	LHD1	2.67	2.51
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.87	1.74
tblVehicleEF	LHD1	0.97	0.93
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.27	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5100e-004	3.4000e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.30	0.28
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.32	1.22

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tblVehicleEF	LHD1	2.52	2.37
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.79	1.67
tblVehicleEF	LHD1	0.92	0.89
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.26	0.24
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.4900e-004	3.3800e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.29	0.27
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.29	1.20
tblVehicleEF	LHD1	2.74	2.57
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.86	1.73
tblVehicleEF	LHD1	0.99	0.95
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.28	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5300e-004	3.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.31	0.29
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.7230e-003	8.7750e-003
tblVehicleEF	LHD2	9.2800e-003	8.1910e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.33	1.22
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.23	1.07
tblVehicleEF	LHD2	0.55	0.51
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7100e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.8550e-003	8.8860e-003
tblVehicleEF	LHD2	8.8860e-003	7.8500e-003
tblVehicleEF	LHD2	0.13	0.12

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tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.26	1.16
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.18	1.03
tblVehicleEF	LHD2	0.52	0.49
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7700e-004	2.7000e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003

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tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.6650e-003	8.7260e-003
tblVehicleEF	LHD2	9.4580e-003	8.3440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.67	0.62
tblVehicleEF	LHD2	1.36	1.26
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.22	1.07
tblVehicleEF	LHD2	0.56	0.52
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004

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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7200e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.48	20.90
tblVehicleEF	MCY	9.67	9.69
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003

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tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	2.47	2.46
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	6.8700e-004	6.8300e-004
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	3.03	3.03
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.33	2.31
tblVehicleEF	MCY	0.46	0.47
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	20.40	19.88
tblVehicleEF	MCY	8.75	8.75
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.05	1.05
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	1.50	1.50

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tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.38	2.38
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	1.86	1.85
tblVehicleEF	MCY	2.2090e-003	2.2100e-003
tblVehicleEF	MCY	6.6400e-004	6.6000e-004
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.93	2.93
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	2.02	2.01
tblVehicleEF	MCY	0.48	0.49
tblVehicleEF	MCY	0.17	0.17
tblVehicleEF	MCY	22.23	21.61
tblVehicleEF	MCY	10.16	10.18
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.18	1.17
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03

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tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	2.52	2.50
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.28	2.26
tblVehicleEF	MCY	2.2420e-003	2.2410e-003
tblVehicleEF	MCY	6.9900e-004	6.9500e-004
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	3.09	3.08
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.48	2.46
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.31	1.18
tblVehicleEF	MDV	3.15	2.86
tblVehicleEF	MDV	521.37	506.28
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.29	0.26
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08

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tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	5.2220e-003	5.0690e-003
tblVehicleEF	MDV	1.1680e-003	1.1340e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	1.43	1.30
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	549.63	533.72
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.04	0.03

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tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	5.5060e-003	5.3450e-003
tblVehicleEF	MDV	1.1580e-003	1.1250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.29	1.16
tblVehicleEF	MDV	3.38	3.07
tblVehicleEF	MDV	516.26	501.32
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.30	0.27
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.12

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tblVehicleEF	MDV	0.26	0.23
tblVehicleEF	MDV	5.1710e-003	5.0200e-003
tblVehicleEF	MDV	1.1720e-003	1.1370e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.28	0.25
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.45	3.71
tblVehicleEF	MH	7.68	7.07
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.01	0.97
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.18	0.15

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6700e-004	7.3200e-004
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.51	0.45
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.56	3.84
tblVehicleEF	MH	7.19	6.60
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.68	1.60
tblVehicleEF	MH	0.96	0.92
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03

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tblVehicleEF	MH	0.19	0.16
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.39
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5800e-004	7.2400e-004
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.26	0.22
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.42	3.66
tblVehicleEF	MH	7.93	7.29
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.03	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7100e-004	7.3500e-004
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.46
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2830e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.65	0.45
tblVehicleEF	MHD	7.28	6.60
tblVehicleEF	MHD	149.39	146.10
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.97	0.62
tblVehicleEF	MHD	2.26	1.59
tblVehicleEF	MHD	11.17	11.06
tblVehicleEF	MHD	2.9800e-003	7.6400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	MHD	2.8510e-003	7.3100e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.43	0.39
tblVehicleEF	MHD	1.4370e-003	1.4060e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0700e-004	6.9300e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.48	0.43
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.3910e-003
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.66	0.45
tblVehicleEF	MHD	6.84	6.20
tblVehicleEF	MHD	158.23	154.74

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	1.00	0.64
tblVehicleEF	MHD	2.18	1.53
tblVehicleEF	MHD	11.12	11.01
tblVehicleEF	MHD	2.5120e-003	6.4400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.4030e-003	6.1600e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	1.5200e-003	1.4870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9900e-004	6.8600e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2360e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.59	0.50
tblVehicleEF	MHD	0.65	0.44
tblVehicleEF	MHD	7.48	6.77
tblVehicleEF	MHD	137.16	134.14
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.92	0.60
tblVehicleEF	MHD	2.25	1.58
tblVehicleEF	MHD	11.19	11.08
tblVehicleEF	MHD	3.6260e-003	9.2900e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	3.4690e-003	8.8900e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.12	0.06
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	1.3220e-003	1.2930e-003

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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	6.9600e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.49	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.94	0.82
tblVehicleEF	OBUS	6.81	6.39
tblVehicleEF	OBUS	107.53	108.17
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.64	0.57
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.51	2.43
tblVehicleEF	OBUS	2.9900e-004	2.0000e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.8600e-004	1.9100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.0380e-003	1.0440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1800e-004	8.0500e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.47	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.96	0.84
tblVehicleEF	OBUS	6.38	5.98
tblVehicleEF	OBUS	112.91	113.58
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.66	0.59

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	OBUS	2.08	1.76
tblVehicleEF	OBUS	2.46	2.38
tblVehicleEF	OBUS	2.5200e-004	1.6800e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.4100e-004	1.6100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.41	0.38
tblVehicleEF	OBUS	1.0900e-003	1.0960e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1100e-004	7.9800e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.45	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.31
tblVehicleEF	OBUS	0.94	0.81
tblVehicleEF	OBUS	7.01	6.58
tblVehicleEF	OBUS	100.11	100.69
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.61	0.54
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.54	2.45
tblVehicleEF	OBUS	3.6400e-004	2.4300e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	3.4800e-004	2.3200e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.44	0.41
tblVehicleEF	OBUS	9.6700e-004	9.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	8.0800e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.44
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	6.15	6.28
tblVehicleEF	SBUS	1.17	1.09
tblVehicleEF	SBUS	7.72	7.52
tblVehicleEF	SBUS	1,247.19	1,232.55
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.29	11.52
tblVehicleEF	SBUS	5.27	4.87
tblVehicleEF	SBUS	14.90	14.64
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003

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tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.76
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	5.3300e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.43	0.42
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	6.00	6.14
tblVehicleEF	SBUS	1.19	1.11
tblVehicleEF	SBUS	6.04	5.88
tblVehicleEF	SBUS	1,309.86	1,293.97
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.69	11.89
tblVehicleEF	SBUS	5.07	4.69

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tblVehicleEF	SBUS	14.87	14.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.75
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.33
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.9500e-004	5.0600e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.06	1.08
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.38	0.36
tblVehicleEF	SBUS	0.88	0.87

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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	6.36	6.48
tblVehicleEF	SBUS	1.16	1.08
tblVehicleEF	SBUS	8.56	8.33
tblVehicleEF	SBUS	1,160.65	1,147.74
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	11.75	11.01
tblVehicleEF	SBUS	5.25	4.85
tblVehicleEF	SBUS	14.92	14.65
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.75	0.76
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.41
tblVehicleEF	SBUS	0.01	0.01

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.3700e-004	5.4700e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.45
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	8.55	8.13
tblVehicleEF	UBUS	6.93	6.99
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.97	8.18
tblVehicleEF	UBUS	14.67	14.39
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	0.67	0.61

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tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1880e-003	1.2270e-003
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	2.75	2.56
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.66	0.67
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	8.57	8.15
tblVehicleEF	UBUS	5.91	5.97
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.65	7.89
tblVehicleEF	UBUS	14.62	14.34
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003

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tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1710e-003	1.2090e-003
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	2.75	2.57
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.60	0.60
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	8.54	8.12
tblVehicleEF	UBUS	7.38	7.45
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.92	8.14
tblVehicleEF	UBUS	14.70	14.42
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05

Boulder Brush Construction Mitigated - San Diego County, Winter

tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.62	0.63
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1960e-003	1.2350e-003
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	2.74	2.56
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.68	0.69

2.0 Emissions Summary

Boulder Brush Construction Mitigated - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.4203	135.7613	78.7517	0.1965	61.9276	5.8870	67.8146	28.9237	5.4398	34.3635	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45
2020	1.3904	8.8045	9.0311	0.0373	3.5575	0.2566	3.8141	0.9233	0.2541	1.1773	0.0000	3,804.895 9	3,804.895 9	0.1967	0.0000	3,809.813 3
Maximum	12.4203	135.7613	78.7517	0.1965	61.9276	5.8870	67.8146	28.9237	5.4398	34.3635	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.0101	30.5956	80.1430	0.1965	27.9385	0.8328	28.3461	12.2730	0.8221	12.6712	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45
2020	1.3904	8.8045	9.0311	0.0373	3.5575	0.2566	3.8141	0.9233	0.2541	1.1773	0.0000	3,804.895 9	3,804.895 9	0.1967	0.0000	3,809.813 3
Maximum	5.0101	30.5956	80.1430	0.1965	27.9385	0.8328	28.3461	12.2730	0.8221	12.6712	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45

	ROG	NOx	CO	SO2	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	53.66	72.75	-1.58	0.00	51.90	82.27	55.10	55.79	81.10	61.03	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Construction Mitigated - 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	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.2926	0.0629	0.1678	5.9000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		63.5308	63.5308	3.1200e-003	1.2000e-004	63.6445

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.2926	0.0629	0.1678	5.9000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		63.5308	63.5308	3.1200e-003	1.2000e-004	63.6445

Boulder Brush Construction Mitigated - 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	Boulder Clearing and Grading	Grading	9/21/2019	10/26/2019	5	25	
2	Boulder Construction Access Roads	Grading	10/13/2019	12/21/2019	5	50	
3	Boulder Foundation Construction and Tower Erection	Building Construction	11/3/2019	12/28/2019	5	40	
4	Boulder Stringing and Pulling	Building Construction	12/8/2019	2/2/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Boulder Brush Construction Mitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Boulder Clearing and Grading	Graders	2	7.00	187	0.41
Boulder Clearing and Grading	Rubber Tired Dozers	4	8.00	247	0.40
Boulder Clearing and Grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Boulder Construction Access Roads	Pavers	1	8.00	130	0.42
Boulder Construction Access Roads	Paving Equipment	4	8.00	132	0.36
Boulder Construction Access Roads	Pumps	1	7.00	84	0.74
Boulder Construction Access Roads	Rollers	4	8.00	80	0.38
Boulder Construction Access Roads	Scrapers	2	8.00	367	0.48
Boulder Foundation Construction and Tower Erection	Air Compressors	1	7.00	78	0.48
Boulder Foundation Construction and Tower Erection	Forklifts	1	8.00	89	0.20
Boulder Foundation Construction and Tower Erection	Generator Sets	2	6.00	84	0.74
Boulder Foundation Construction and Tower Erection	Pumps	1	7.00	84	0.74
Boulder Foundation Construction and Tower Erection	Welders	1	7.00	46	0.45
Boulder Stringing and Pulling	Air Compressors	1	7.00	78	0.48
Boulder Stringing and Pulling	Welders	1	7.00	46	0.45

Trips and VMT

Boulder Brush Construction Mitigated - San Diego County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Boulder Clearing and Grading	10	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Clearing and Grading	10	48.00	20.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	48.00	10.00	32.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	96.00	10.00	30.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	72.00	10.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Boulder Brush Construction Mitigated - San Diego County, Winter

3.2 Boulder Clearing and Grading - 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					
Fugitive Dust					55.7198	0.0000	55.7198	27.2963	0.0000	27.2963			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090		5,608.9579	5,608.9579	1.7746		5,653.3233
Total	6.2050	67.9928	28.4123	0.0566	55.7198	3.2706	58.9904	27.2963	3.0090	30.3053		5,608.9579	5,608.9579	1.7746		5,653.3233

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	0.5071	10.9160	2.9347	0.0353	1.8072	0.1278	1.9350	0.4879	0.1223	0.6102		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.9334	11.2353	5.8204	0.0443	3.5263	0.1340	3.6602	0.9280	0.1279	1.0559		4,676.9891	4,676.9891	0.2289		4,682.7124

Boulder Brush Construction Mitigated - San Diego County, Winter

3.2 Boulder Clearing and Grading - 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					
Fugitive Dust					21.7307	0.0000	21.7307	10.6456	0.0000	10.6456			0.0000			0.0000
Off-Road	0.6931	3.0035	28.7376	0.0566		0.0924	0.0924		0.0924	0.0924	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233
Total	0.6931	3.0035	28.7376	0.0566	21.7307	0.0924	21.8232	10.6456	0.0924	10.7380	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233

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	0.5071	10.9160	2.9347	0.0353	1.8072	0.1278	1.9350	0.4879	0.1223	0.6102		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.9334	11.2353	5.8204	0.0443	3.5263	0.1340	3.6602	0.9280	0.1279	1.0559		4,676.9891	4,676.9891	0.2289		4,682.7124

Boulder Brush Construction Mitigated - San Diego County, Winter

3.3 Boulder Construction Access Roads - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5877	50.2966	40.0560	0.0675		2.4103	2.4103		2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909
Total	4.5877	50.2966	40.0560	0.0675	0.0000	2.4103	2.4103	0.0000	2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909

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	0.0143	0.4594	0.1099	1.3800e-003	0.0589	2.0900e-003	0.0610	0.0154	2.0000e-003	0.0174		150.5799	150.5799	0.0122		150.8835
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.6942	6.2367	4.4629	0.0281	2.6816	0.0721	2.7537	0.6994	0.0688	0.7682		2,939.1001	2,939.1001	0.1403		2,942.6079

Boulder Brush Construction Mitigated - San Diego County, Winter

3.3 Boulder Construction Access Roads - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8180	3.5446	41.1221	0.0675		0.1091	0.1091		0.1091	0.1091	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909
Total	0.8180	3.5446	41.1221	0.0675	0.0000	0.1091	0.1091	0.0000	0.1091	0.1091	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909

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	0.0143	0.4594	0.1099	1.3800e-003	0.0589	2.0900e-003	0.0610	0.0154	2.0000e-003	0.0174		150.5799	150.5799	0.0122		150.8835
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.6942	6.2367	4.4629	0.0281	2.6816	0.0721	2.7537	0.6994	0.0688	0.7682		2,939.1001	2,939.1001	0.1403		2,942.6079

Boulder Brush Construction Mitigated - San Diego County, Winter

3.4 Boulder Foundation Construction and Tower Erection - 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	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669
Total	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669

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	0.0168	0.5384	0.1287	1.6200e-003	0.0690	2.4500e-003	0.0715	0.0181	2.3500e-003	0.0204		176.4608	176.4608	0.0142		176.8167
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.8526	0.6385	5.7714	0.0181	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1230	6.6349	7.3675	0.0373	4.4107	0.0787	4.4894	1.1421	0.0748	1.2170		3,865.0322	3,865.0322	0.1698		3,869.2773

Boulder Brush Construction Mitigated - San Diego County, Winter

3.4 Boulder Foundation Construction and Tower Erection - 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	0.8229	4.3211	14.5249	0.0229		0.2608	0.2608		0.2608	0.2608	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	0.8229	4.3211	14.5249	0.0229		0.2608	0.2608		0.2608	0.2608	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669

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	0.0168	0.5384	0.1287	1.6200e-003	0.0690	2.4500e-003	0.0715	0.0181	2.3500e-003	0.0204		176.4608	176.4608	0.0142		176.8167
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.8526	0.6385	5.7714	0.0181	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1230	6.6349	7.3675	0.0373	4.4107	0.0787	4.4894	1.1421	0.0748	1.2170		3,865.0322	3,865.0322	0.1698		3,869.2773

Boulder Brush Construction Mitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511

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	0.0112	0.3589	0.0858	1.0800e-003	0.0997	1.6400e-003	0.1013	0.0252	1.5700e-003	0.0268		117.6405	117.6405	9.4900e-003		117.8778
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.6395	0.4789	4.3286	0.0136	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,350.0769	1,350.0769	0.0411		1,351.1044
Total	0.9042	6.2958	5.8817	0.0323	3.5818	0.0748	3.6566	0.9293	0.0712	1.0005		3,356.1863	3,356.1863	0.1514		3,359.9703

Boulder Brush Construction Mitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511

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	0.0112	0.3589	0.0858	1.0800e-003	0.0997	1.6400e-003	0.1013	0.0252	1.5700e-003	0.0268		117.6405	117.6405	9.4900e-003		117.8778
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.6395	0.4789	4.3286	0.0136	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,350.0769	1,350.0769	0.0411		1,351.1044
Total	0.9042	6.2958	5.8817	0.0323	3.5818	0.0748	3.6566	0.9293	0.0712	1.0005		3,356.1863	3,356.1863	0.1514		3,359.9703

Boulder Brush Construction Mitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055

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	0.0102	0.3294	0.0844	1.0600e-003	0.0753	1.2900e-003	0.0766	0.0192	1.2400e-003	0.0205		116.2093	116.2093	9.4700e-003		116.4461
Vendor	0.1981	4.7032	1.3028	0.0175	0.9036	0.0408	0.9444	0.2440	0.0390	0.2830		1,871.3891	1,871.3891	0.0978		1,873.8339
Worker	0.6002	0.4326	3.9611	0.0131	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.8085	5.4652	5.3483	0.0316	3.5575	0.0511	3.6086	0.9233	0.0486	0.9719		3,294.9968	3,294.9968	0.1444		3,298.6078

Boulder Brush Construction Mitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055

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	0.0102	0.3294	0.0844	1.0600e-003	0.0753	1.2900e-003	0.0766	0.0192	1.2400e-003	0.0205		116.2093	116.2093	9.4700e-003		116.4461
Vendor	0.1981	4.7032	1.3028	0.0175	0.9036	0.0408	0.9444	0.2440	0.0390	0.2830		1,871.3891	1,871.3891	0.0978		1,873.8339
Worker	0.6002	0.4326	3.9611	0.0131	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.8085	5.4652	5.3483	0.0316	3.5575	0.0511	3.6086	0.9233	0.0486	0.9719		3,294.9968	3,294.9968	0.1444		3,298.6078

4.0 Operational Detail - Mobile

Boulder Brush Construction Mitigated - 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	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Unmitigated	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Boulder Brush Construction Mitigated - San Diego County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Boulder Brush Construction Mitigated - 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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Boulder Brush Construction Mitigated - 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	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Boulder Brush Construction Mitigated - 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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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**Fire Pumps and Emergency Generators**

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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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Boulder Brush Construction Unmitigated. 2016 RPS for SDG&E

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by bio report.

Land Use Change -

Construction Off-road Equipment Mitigation - Construction PDF-AQ-1 fugitive dust control measures.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	0	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	2.00	50.00
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.59	0.59
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.5580e-003	5.5130e-003
tblFleetMix	MCY	6.1810e-003	6.0900e-003

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tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	1.2710e-003	1.1930e-003
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9020e-003	1.9120e-003
tblFleetMix	SBUS	7.4500e-004	7.4800e-004
tblFleetMix	UBUS	2.0240e-003	1.9720e-003
tblGrading	AcresOfGrading	21.88	0.00
tblGrading	AcresOfGrading	21.88	177.82
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
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tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00

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tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
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tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
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tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
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tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00

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tblVehicleEF	HHD	0.81	0.78
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	2.77	2.62
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.66	3.46
tblVehicleEF	HHD	4,760.03	4,715.65
tblVehicleEF	HHD	1,681.18	1,659.46
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tblVehicleEF	HHD	23.16	21.83
tblVehicleEF	HHD	4.29	3.83
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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
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tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6700e-004	1.6000e-004
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.81	0.77
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.77	0.73
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	2.02	1.91
tblVehicleEF	HHD	1.16	1.16
tblVehicleEF	HHD	3.44	3.25
tblVehicleEF	HHD	5,039.91	4,994.00
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.90	22.53
tblVehicleEF	HHD	4.13	3.69
tblVehicleEF	HHD	19.62	19.60
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02

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tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.65	0.61
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6400e-004	1.5700e-004
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.76	0.72
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.88	0.84
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	3.81	3.61
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.76	3.55
tblVehicleEF	HHD	4,373.53	4,331.26
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27

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tblVehicleEF	HHD	22.14	20.87
tblVehicleEF	HHD	4.28	3.82
tblVehicleEF	HHD	19.64	19.62
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.74	0.70
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6900e-004	1.6200e-004
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.87	0.83
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.14	0.12

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tblVehicleEF	LDA	7.5560e-003	7.0640e-003
tblVehicleEF	LDA	9.8610e-003	8.9160e-003
tblVehicleEF	LDA	0.67	0.64
tblVehicleEF	LDA	1.76	1.61
tblVehicleEF	LDA	280.70	269.94
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	2.8120e-003	2.7040e-003
tblVehicleEF	LDA	6.3700e-004	6.1300e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	8.1310e-003	7.6050e-003

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tblVehicleEF	LDA	8.5880e-003	7.7690e-003
tblVehicleEF	LDA	0.75	0.72
tblVehicleEF	LDA	1.46	1.34
tblVehicleEF	LDA	296.71	285.32
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	2.9730e-003	2.8590e-003
tblVehicleEF	LDA	6.3200e-004	6.0800e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	7.4330e-003	6.9480e-003
tblVehicleEF	LDA	0.01	9.3860e-003

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tblVehicleEF	LDA	0.66	0.63
tblVehicleEF	LDA	1.88	1.73
tblVehicleEF	LDA	277.81	267.16
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.13
tblVehicleEF	LDA	2.7830e-003	2.6760e-003
tblVehicleEF	LDA	6.3900e-004	6.1500e-004
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.14
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.51	1.39

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tblVehicleEF	LDT1	3.68	3.36
tblVehicleEF	LDT1	349.50	340.08
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.22	0.20
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.26	0.24
tblVehicleEF	LDT1	3.5140e-003	3.4180e-003
tblVehicleEF	LDT1	8.1400e-004	7.9200e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.29	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.66	1.54
tblVehicleEF	LDT1	3.02	2.76

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tblVehicleEF	LDT1	368.39	358.51
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	3.7050e-003	3.6040e-003
tblVehicleEF	LDT1	8.0300e-004	7.8200e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.48	1.37
tblVehicleEF	LDT1	3.96	3.61
tblVehicleEF	LDT1	346.09	336.75

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tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.28	0.25
tblVehicleEF	LDT1	3.4790e-003	3.3840e-003
tblVehicleEF	LDT1	8.1900e-004	7.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT2	6.7070e-003	6.2050e-003
tblVehicleEF	LDT2	8.5260e-003	7.5060e-003
tblVehicleEF	LDT2	0.78	0.73
tblVehicleEF	LDT2	1.77	1.59
tblVehicleEF	LDT2	393.35	380.39
tblVehicleEF	LDT2	84.92	82.33

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tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	3.9390e-003	3.8090e-003
tblVehicleEF	LDT2	8.7900e-004	8.5000e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.13	0.11
tblVehicleEF	LDT2	7.2030e-003	6.6680e-003
tblVehicleEF	LDT2	7.4120e-003	6.5270e-003
tblVehicleEF	LDT2	0.87	0.82
tblVehicleEF	LDT2	1.47	1.31
tblVehicleEF	LDT2	415.21	401.53
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.08	0.07

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tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	4.1590e-003	4.0210e-003
tblVehicleEF	LDT2	8.7400e-004	8.4500e-004
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	6.6010e-003	6.1060e-003
tblVehicleEF	LDT2	8.9850e-003	7.9100e-003
tblVehicleEF	LDT2	0.76	0.72
tblVehicleEF	LDT2	1.90	1.70
tblVehicleEF	LDT2	389.40	376.56
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.16	0.14

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tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	3.8990e-003	3.7700e-003
tblVehicleEF	LDT2	8.8200e-004	8.5200e-004
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.30	1.20
tblVehicleEF	LHD1	2.67	2.51
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29

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tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.87	1.74
tblVehicleEF	LHD1	0.97	0.93
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.27	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5100e-004	3.4000e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.30	0.28

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tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.32	1.22
tblVehicleEF	LHD1	2.52	2.37
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.79	1.67
tblVehicleEF	LHD1	0.92	0.89
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.26	0.24

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tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.4900e-004	3.3800e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.29	0.27
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.29	1.20
tblVehicleEF	LHD1	2.74	2.57
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.86	1.73
tblVehicleEF	LHD1	0.99	0.95
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.28	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5300e-004	3.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.31	0.29
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.7230e-003	8.7750e-003
tblVehicleEF	LHD2	9.2800e-003	8.1910e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.33	1.22
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.23	1.07
tblVehicleEF	LHD2	0.55	0.51
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7100e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07

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tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.8550e-003	8.8860e-003
tblVehicleEF	LHD2	8.8860e-003	7.8500e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.26	1.16
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.18	1.03
tblVehicleEF	LHD2	0.52	0.49
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7700e-004	2.7000e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.6650e-003	8.7260e-003
tblVehicleEF	LHD2	9.4580e-003	8.3440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.67	0.62
tblVehicleEF	LHD2	1.36	1.26
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.22	1.07
tblVehicleEF	LHD2	0.56	0.52
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004

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tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7200e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.48	20.90
tblVehicleEF	MCY	9.67	9.69
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22

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tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	2.47	2.46
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	6.8700e-004	6.8300e-004
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	3.03	3.03
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.33	2.31
tblVehicleEF	MCY	0.46	0.47
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	20.40	19.88
tblVehicleEF	MCY	8.75	8.75
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.05	1.05
tblVehicleEF	MCY	0.29	0.29

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tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.38	2.38
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	1.86	1.85
tblVehicleEF	MCY	2.2090e-003	2.2100e-003
tblVehicleEF	MCY	6.6400e-004	6.6000e-004
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.93	2.93
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	2.02	2.01
tblVehicleEF	MCY	0.48	0.49
tblVehicleEF	MCY	0.17	0.17
tblVehicleEF	MCY	22.23	21.61
tblVehicleEF	MCY	10.16	10.18
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.18	1.17
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.0020e-003	2.0750e-003

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tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	2.52	2.50
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.28	2.26
tblVehicleEF	MCY	2.2420e-003	2.2410e-003
tblVehicleEF	MCY	6.9900e-004	6.9500e-004
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	3.09	3.08
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.48	2.46
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.31	1.18
tblVehicleEF	MDV	3.15	2.86
tblVehicleEF	MDV	521.37	506.28
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.29	0.26
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003

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tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	5.2220e-003	5.0690e-003
tblVehicleEF	MDV	1.1680e-003	1.1340e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	1.43	1.30
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	549.63	533.72
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003

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tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	5.5060e-003	5.3450e-003
tblVehicleEF	MDV	1.1580e-003	1.1250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.29	1.16
tblVehicleEF	MDV	3.38	3.07
tblVehicleEF	MDV	516.26	501.32
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.30	0.27
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003

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tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.26	0.23
tblVehicleEF	MDV	5.1710e-003	5.0200e-003
tblVehicleEF	MDV	1.1720e-003	1.1370e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.28	0.25
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.45	3.71
tblVehicleEF	MH	7.68	7.07
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.01	0.97
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03

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tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6700e-004	7.3200e-004
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.51	0.45
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.56	3.84
tblVehicleEF	MH	7.19	6.60
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.68	1.60
tblVehicleEF	MH	0.96	0.92
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.19	0.16
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.39
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5800e-004	7.2400e-004
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.26	0.22
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.42	3.66
tblVehicleEF	MH	7.93	7.29
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.03	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003

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tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7100e-004	7.3500e-004
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.46
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2830e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.65	0.45
tblVehicleEF	MHD	7.28	6.60
tblVehicleEF	MHD	149.39	146.10
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.97	0.62

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tblVehicleEF	MHD	2.26	1.59
tblVehicleEF	MHD	11.17	11.06
tblVehicleEF	MHD	2.9800e-003	7.6400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.8510e-003	7.3100e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.43	0.39
tblVehicleEF	MHD	1.4370e-003	1.4060e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0700e-004	6.9300e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.48	0.43
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.3910e-003

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tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.66	0.45
tblVehicleEF	MHD	6.84	6.20
tblVehicleEF	MHD	158.23	154.74
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	1.00	0.64
tblVehicleEF	MHD	2.18	1.53
tblVehicleEF	MHD	11.12	11.01
tblVehicleEF	MHD	2.5120e-003	6.4400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.4030e-003	6.1600e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	1.5200e-003	1.4870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9900e-004	6.8600e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003

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tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2360e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.59	0.50
tblVehicleEF	MHD	0.65	0.44
tblVehicleEF	MHD	7.48	6.77
tblVehicleEF	MHD	137.16	134.14
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.92	0.60
tblVehicleEF	MHD	2.25	1.58
tblVehicleEF	MHD	11.19	11.08
tblVehicleEF	MHD	3.6260e-003	9.2900e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	3.4690e-003	8.8900e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.03

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tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.12	0.06
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	1.3220e-003	1.2930e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	6.9600e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.49	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.94	0.82
tblVehicleEF	OBUS	6.81	6.39
tblVehicleEF	OBUS	107.53	108.17
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.64	0.57
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.51	2.43
tblVehicleEF	OBUS	2.9900e-004	2.0000e-004

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tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.8600e-004	1.9100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.0380e-003	1.0440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1800e-004	8.0500e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.47	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.96	0.84

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tblVehicleEF	OBUS	6.38	5.98
tblVehicleEF	OBUS	112.91	113.58
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.66	0.59
tblVehicleEF	OBUS	2.08	1.76
tblVehicleEF	OBUS	2.46	2.38
tblVehicleEF	OBUS	2.5200e-004	1.6800e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.4100e-004	1.6100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
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tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.41	0.38
tblVehicleEF	OBUS	1.0900e-003	1.0960e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1100e-004	7.9800e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003

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tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.45	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.31
tblVehicleEF	OBUS	0.94	0.81
tblVehicleEF	OBUS	7.01	6.58
tblVehicleEF	OBUS	100.11	100.69
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.61	0.54
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.54	2.45
tblVehicleEF	OBUS	3.6400e-004	2.4300e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	3.4800e-004	2.3200e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05

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tblVehicleEF	OBUS	0.44	0.41
tblVehicleEF	OBUS	9.6700e-004	9.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	8.0800e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.44
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	6.15	6.28
tblVehicleEF	SBUS	1.17	1.09
tblVehicleEF	SBUS	7.72	7.52
tblVehicleEF	SBUS	1,247.19	1,232.55
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.29	11.52
tblVehicleEF	SBUS	5.27	4.87
tblVehicleEF	SBUS	14.90	14.64
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.76
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	5.3300e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.43	0.42
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	6.00	6.14
tblVehicleEF	SBUS	1.19	1.11
tblVehicleEF	SBUS	6.04	5.88

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tblVehicleEF	SBUS	1,309.86	1,293.97
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
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tblVehicleEF	SBUS	14.87	14.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.75
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.33
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.9500e-004	5.0600e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.06	1.08

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tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.38	0.36
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	6.36	6.48
tblVehicleEF	SBUS	1.16	1.08
tblVehicleEF	SBUS	8.56	8.33
tblVehicleEF	SBUS	1,160.65	1,147.74
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.75	0.76

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tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.41
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.3700e-004	5.4700e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.45
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	8.55	8.13
tblVehicleEF	UBUS	6.93	6.99
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
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tblVehicleEF	UBUS	14.67	14.39
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12

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tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1880e-003	1.2270e-003
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	2.75	2.56
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.66	0.67
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	8.57	8.15
tblVehicleEF	UBUS	5.91	5.97
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.65	7.89
tblVehicleEF	UBUS	14.62	14.34
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25

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tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1710e-003	1.2090e-003
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	2.75	2.57
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.60	0.60
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	8.54	8.12
tblVehicleEF	UBUS	7.38	7.45
tblVehicleEF	UBUS	1,976.87	1,953.87
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tblVehicleEF	UBUS	8.92	8.14
tblVehicleEF	UBUS	14.70	14.42
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004

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tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.62	0.63
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1960e-003	1.2350e-003
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	2.74	2.56
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.68	0.69

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2896	2.9024	2.0476	5.1900e-003	0.9206	0.1267	1.0474	0.3996	0.1186	0.5183	0.0000	474.2606	474.2606	0.0789	0.0000	476.2342
2020	0.0151	0.1015	0.1042	4.3000e-004	0.0399	2.9500e-003	0.0429	0.0104	2.9200e-003	0.0133	0.0000	39.8832	39.8832	2.0500e-003	0.0000	39.9344
Maximum	0.2896	2.9024	2.0476	5.1900e-003	0.9206	0.1267	1.0474	0.3996	0.1186	0.5183	0.0000	474.2606	474.2606	0.0789	0.0000	476.2342

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2896	2.9024	2.0476	5.1900e-003	0.4958	0.1267	0.6225	0.1915	0.1186	0.3101	0.0000	474.2603	474.2603	0.0789	0.0000	476.2339
2020	0.0151	0.1015	0.1042	4.3000e-004	0.0399	2.9500e-003	0.0429	0.0104	2.9200e-003	0.0133	0.0000	39.8832	39.8832	2.0500e-003	0.0000	39.9344
Maximum	0.2896	2.9024	2.0476	5.1900e-003	0.4958	0.1267	0.6225	0.1915	0.1186	0.3101	0.0000	474.2603	474.2603	0.0789	0.0000	476.2339

	ROG	NOx	CO	SO2	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	44.23	0.00	38.97	50.76	0.00	39.16	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2019	11-30-2019	2.4273	2.4273
2	12-1-2019	2-29-2020	0.9181	0.9181
		Highest	2.4273	2.4273

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.0528	9.1900e-003	0.0239	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9069	12.2319	0.0230	2.5000e-004	12.8800

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.0528	9.1900e-003	0.0239	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9069	12.2319	0.0230	2.5000e-004	12.8800

[illegible]

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2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 1,017.692 0
Total	- 1,017.692 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	Boulder Clearing and Grading	Grading	9/21/2019	10/26/2019	5	25	
2	Boulder Construction Access Roads	Grading	10/13/2019	12/21/2019	5	50	
3	Boulder Foundation Construction and Tower Erection	Building Construction	11/3/2019	12/28/2019	5	40	
4	Boulder Stringing and Pulling	Building Construction	12/8/2019	2/2/2020	5	40	

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

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Boulder Clearing and Grading	Graders	2	7.00	187	0.41
Boulder Clearing and Grading	Rubber Tired Dozers	4	8.00	247	0.40
Boulder Clearing and Grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Boulder Construction Access Roads	Pavers	1	8.00	130	0.42
Boulder Construction Access Roads	Paving Equipment	4	8.00	132	0.36
Boulder Construction Access Roads	Pumps	1	7.00	84	0.74
Boulder Construction Access Roads	Rollers	4	8.00	80	0.38
Boulder Construction Access Roads	Scrapers	2	8.00	367	0.48
Boulder Foundation Construction and Tower Erection	Air Compressors	1	7.00	78	0.48
Boulder Foundation Construction and Tower Erection	Forklifts	1	8.00	89	0.20
Boulder Foundation Construction and Tower Erection	Generator Sets	2	6.00	84	0.74
Boulder Foundation Construction and Tower Erection	Pumps	1	7.00	84	0.74
Boulder Foundation Construction and Tower Erection	Welders	1	7.00	46	0.45
Boulder Stringing and Pulling	Air Compressors	1	7.00	78	0.48
Boulder Stringing and Pulling	Welders	1	7.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Boulder Clearing and Grading	10	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Clearing and Grading	10	48.00	20.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	48.00	10.00	32.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	96.00	10.00	30.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	72.00	10.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Boulder Clearing and Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.6965	0.0000	0.6965	0.3412	0.0000	0.3412	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0776	0.8499	0.3552	7.1000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	63.6045	63.6045	0.0201	0.0000	64.1076
Total	0.0776	0.8499	0.3552	7.1000e-004	0.6965	0.0409	0.7374	0.3412	0.0376	0.3788	0.0000	63.6045	63.6045	0.0201	0.0000	64.1076

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3.2 Boulder Clearing and Grading - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0209	8.0000e-005	0.0210	5.3700e-003	7.0000e-005	5.4400e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	0.0109	0.1411	0.0728	5.5000e-004	0.0430	1.6800e-003	0.0447	0.0113	1.6000e-003	0.0129	0.0000	53.2382	53.2382	2.5800e-003	0.0000	53.3027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2716	0.0000	0.2716	0.1331	0.0000	0.1331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0776	0.8499	0.3552	7.1000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	63.6044	63.6044	0.0201	0.0000	64.1075
Total	0.0776	0.8499	0.3552	7.1000e-004	0.2716	0.0409	0.3125	0.1331	0.0376	0.1707	0.0000	63.6044	63.6044	0.0201	0.0000	64.1075

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3.2 Boulder Clearing and Grading - 2019**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	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0209	8.0000e-005	0.0210	5.3700e-003	7.0000e-005	5.4400e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	0.0109	0.1411	0.0728	5.5000e-004	0.0430	1.6800e-003	0.0447	0.0113	1.6000e-003	0.0129	0.0000	53.2382	53.2382	2.5800e-003	0.0000	53.3027

3.3 Boulder Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1147	1.2574	1.0014	1.6900e-003		0.0603	0.0603		0.0559	0.0559	0.0000	151.0983	151.0983	0.0447	0.0000	152.2163
Total	0.1147	1.2574	1.0014	1.6900e-003	0.0000	0.0603	0.0603	0.0000	0.0559	0.0559	0.0000	151.0983	151.0983	0.0447	0.0000	152.2163

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3.3 Boulder Construction Access Roads - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0116	2.7100e-003	3.0000e-005	1.4400e-003	5.0000e-005	1.4900e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0419	1.5000e-004	0.0420	0.0107	1.4000e-004	0.0109	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0160	0.1566	0.1119	7.0000e-004	0.0654	1.8000e-003	0.0672	0.0171	1.7200e-003	0.0188	0.0000	66.9751	66.9751	3.1700e-003	0.0000	67.0543

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1147	1.2574	1.0014	1.6900e-003		0.0603	0.0603		0.0559	0.0559	0.0000	151.0981	151.0981	0.0447	0.0000	152.2161
Total	0.1147	1.2574	1.0014	1.6900e-003	0.0000	0.0603	0.0603	0.0000	0.0559	0.0559	0.0000	151.0981	151.0981	0.0447	0.0000	152.2161

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3.3 Boulder Construction Access Roads - 2019**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	3.6000e-004	0.0116	2.7100e-003	3.0000e-005	1.4400e-003	5.0000e-005	1.4900e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	6.2700e-003	0.1372	0.0363	4.4000e-004	0.0221	1.6000e-003	0.0237	5.9700e-003	1.5300e-003	7.5000e-003	0.0000	42.9286	42.9286	2.2700e-003	0.0000	42.9853
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0419	1.5000e-004	0.0420	0.0107	1.4000e-004	0.0109	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0160	0.1566	0.1119	7.0000e-004	0.0654	1.8000e-003	0.0672	0.0171	1.7200e-003	0.0188	0.0000	66.9751	66.9751	3.1700e-003	0.0000	67.0543

3.4 Boulder Foundation Construction and Tower Erection - 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	tons/yr										MT/yr					
Off-Road	0.0377	0.2803	0.2763	4.6000e-004		0.0179	0.0179		0.0177	0.0177	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9358
Total	0.0377	0.2803	0.2763	4.6000e-004		0.0179	0.0179		0.0177	0.0177	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9358

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3.4 Boulder Foundation Construction and Tower Erection - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0108	2.5400e-003	3.0000e-005	1.3500e-003	5.0000e-005	1.4000e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	5.0200e-003	0.1097	0.0291	3.5000e-004	0.0177	1.2800e-003	0.0189	4.7800e-003	1.2200e-003	6.0000e-003	0.0000	34.3429	34.3429	1.8100e-003	0.0000	34.3883
Worker	0.0149	0.0126	0.1166	3.6000e-004	0.0670	2.5000e-004	0.0673	0.0172	2.3000e-004	0.0174	0.0000	32.9905	32.9905	1.0000e-003	0.0000	33.0156
Total	0.0203	0.1331	0.1482	7.4000e-004	0.0860	1.5800e-003	0.0876	0.0223	1.5000e-003	0.0238	0.0000	70.5466	70.5466	3.0700e-003	0.0000	70.6235

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.2802	0.2763	4.6000e-004		0.0179	0.0179		0.0177	0.0177	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9357
Total	0.0377	0.2802	0.2763	4.6000e-004		0.0179	0.0179		0.0177	0.0177	0.0000	38.8443	38.8443	3.6600e-003	0.0000	38.9357

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3.4 Boulder Foundation Construction and Tower Erection - 2019**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	3.3000e-004	0.0108	2.5400e-003	3.0000e-005	1.3500e-003	5.0000e-005	1.4000e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	5.0200e-003	0.1097	0.0291	3.5000e-004	0.0177	1.2800e-003	0.0189	4.7800e-003	1.2200e-003	6.0000e-003	0.0000	34.3429	34.3429	1.8100e-003	0.0000	34.3883
Worker	0.0149	0.0126	0.1166	3.6000e-004	0.0670	2.5000e-004	0.0673	0.0172	2.3000e-004	0.0174	0.0000	32.9905	32.9905	1.0000e-003	0.0000	33.0156
Total	0.0203	0.1331	0.1482	7.4000e-004	0.0860	1.5800e-003	0.0876	0.0223	1.5000e-003	0.0238	0.0000	70.5466	70.5466	3.0700e-003	0.0000	70.6235

3.5 Boulder Stringing and Pulling - 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	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431
Total	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431

Boulder Brush Construction Unmitigated - San Diego County, Annual

3.5 Boulder Stringing and Pulling - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	3.0700e-003	7.2000e-004	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.9104	0.9104	7.0000e-005	0.0000	0.9122
Vendor	2.1300e-003	0.0466	0.0124	1.5000e-004	7.5100e-003	5.4000e-004	8.0500e-003	2.0300e-003	5.2000e-004	2.5500e-003	0.0000	14.5957	14.5957	7.7000e-004	0.0000	14.6150
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0214	8.0000e-005	0.0214	5.4700e-003	7.0000e-005	5.5500e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.9700e-003	0.0537	0.0502	2.8000e-004	0.0297	6.3000e-004	0.0303	7.7100e-003	6.0000e-004	8.3200e-003	0.0000	26.0219	26.0219	1.1600e-003	0.0000	26.0510

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431
Total	5.5100e-003	0.0303	0.0317	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431

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3.5 Boulder Stringing and Pulling - 2019**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	9.0000e-005	3.0700e-003	7.2000e-004	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.9104	0.9104	7.0000e-005	0.0000	0.9122
Vendor	2.1300e-003	0.0466	0.0124	1.5000e-004	7.5100e-003	5.4000e-004	8.0500e-003	2.0300e-003	5.2000e-004	2.5500e-003	0.0000	14.5957	14.5957	7.7000e-004	0.0000	14.6150
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0214	8.0000e-005	0.0214	5.4700e-003	7.0000e-005	5.5500e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.9700e-003	0.0537	0.0502	2.8000e-004	0.0297	6.3000e-004	0.0303	7.7100e-003	6.0000e-004	8.3200e-003	0.0000	26.0219	26.0219	1.1600e-003	0.0000	26.0510

3.5 Boulder Stringing and Pulling - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332
Total	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332

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3.5 Boulder Stringing and Pulling - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	3.8100e-003	9.6000e-004	1.0000e-005	8.4000e-004	1.0000e-005	8.6000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2168	1.2168	1.0000e-004	0.0000	1.2193
Vendor	2.2500e-003	0.0544	0.0148	2.0000e-004	0.0102	4.7000e-004	0.0106	2.7500e-003	4.5000e-004	3.2000e-003	0.0000	19.5694	19.5694	1.0100e-003	0.0000	19.5947
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0289	1.0000e-004	0.0290	7.4100e-003	1.0000e-004	7.5000e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.3900e-003	0.0631	0.0618	3.6000e-004	0.0399	5.8000e-004	0.0405	0.0104	5.6000e-004	0.0109	0.0000	34.5636	34.5636	1.5000e-003	0.0000	34.6012

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332
Total	6.6900e-003	0.0384	0.0424	7.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332

Boulder Brush Construction Unmitigated - San Diego County, Annual

3.5 Boulder Stringing and Pulling - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	3.8100e-003	9.6000e-004	1.0000e-005	8.4000e-004	1.0000e-005	8.6000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	1.2168	1.2168	1.0000e-004	0.0000	1.2193
Vendor	2.2500e-003	0.0544	0.0148	2.0000e-004	0.0102	4.7000e-004	0.0106	2.7500e-003	4.5000e-004	3.2000e-003	0.0000	19.5694	19.5694	1.0100e-003	0.0000	19.5947
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0289	1.0000e-004	0.0290	7.4100e-003	1.0000e-004	7.5000e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.3900e-003	0.0631	0.0618	3.6000e-004	0.0399	5.8000e-004	0.0405	0.0104	5.6000e-004	0.0109	0.0000	34.5636	34.5636	1.5000e-003	0.0000	34.6012

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

Boulder Brush Construction Unmitigated - 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	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Unmitigated	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Construction Unmitigated - San Diego County, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
NaturalGas Mitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
NaturalGas Unmitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

Boulder Brush Construction Unmitigated - 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					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

Boulder Brush Construction Unmitigated - 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			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Total	0.0510	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

7.0 Water Detail

Boulder Brush Construction Unmitigated - San Diego County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6966	7.5700e-003	1.9000e-004	0.9414
Unmitigated	0.6966	7.5700e-003	1.9000e-004	0.9414

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

Boulder Brush Construction Unmitigated - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2517	0.0149	0.0000	0.6236
Unmitigated	0.2517	0.0149	0.0000	0.6236

Boulder Brush Construction Unmitigated - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Total		0.2517	0.0149	0.0000	0.6236

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Total		0.2517	0.0149	0.0000	0.6236

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Boulder Brush Construction Unmitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 1,017.692 0	0.0000	0.0000	- 1,017.692 0

11.1 Vegetation Land Change**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Scrub	57.04 / 0	-815.6720	0.0000	0.0000	-815.6720
Trees	1.82 / 0	-202.0200	0.0000	0.0000	-202.0200
Total		- 1,017.692 0	0.0000	0.0000	- 1,017.692 0

Boulder Brush Construction Unmitigated - San Diego County, Summer

Boulder Brush Construction Unmitigated

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Construction Unmitigated - San Diego County, Summer

Project Characteristics - Boulder Brush Construction Unmitigated. 2016 RPS for SDG&E

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by bio report.

Land Use Change -

Construction Off-road Equipment Mitigation - Construction PDF-AQ-1 fugitive dust control measures.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	0	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	2.00	50.00
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.59	0.59
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.5580e-003	5.5130e-003
tblFleetMix	MCY	6.1810e-003	6.0900e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	1.2710e-003	1.1930e-003
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9020e-003	1.9120e-003
tblFleetMix	SBUS	7.4500e-004	7.4800e-004
tblFleetMix	UBUS	2.0240e-003	1.9720e-003
tblGrading	AcresOfGrading	21.88	0.00
tblGrading	AcresOfGrading	21.88	177.82
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	HHD	0.81	0.78
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	2.77	2.62
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.66	3.46
tblVehicleEF	HHD	4,760.03	4,715.65
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.16	21.83
tblVehicleEF	HHD	4.29	3.83
tblVehicleEF	HHD	19.63	19.62
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.69	0.65
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.04	0.04

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6700e-004	1.6000e-004
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.81	0.77
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.77	0.73
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	2.02	1.91
tblVehicleEF	HHD	1.16	1.16
tblVehicleEF	HHD	3.44	3.25
tblVehicleEF	HHD	5,039.91	4,994.00
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.90	22.53
tblVehicleEF	HHD	4.13	3.69
tblVehicleEF	HHD	19.62	19.60
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.65	0.61
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6400e-004	1.5700e-004
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.76	0.72
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.88	0.84
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	3.81	3.61
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.76	3.55
tblVehicleEF	HHD	4,373.53	4,331.26
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	HHD	22.14	20.87
tblVehicleEF	HHD	4.28	3.82
tblVehicleEF	HHD	19.64	19.62
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.74	0.70
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6900e-004	1.6200e-004
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.87	0.83
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.14	0.12

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDA	7.5560e-003	7.0640e-003
tblVehicleEF	LDA	9.8610e-003	8.9160e-003
tblVehicleEF	LDA	0.67	0.64
tblVehicleEF	LDA	1.76	1.61
tblVehicleEF	LDA	280.70	269.94
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	2.8120e-003	2.7040e-003
tblVehicleEF	LDA	6.3700e-004	6.1300e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	8.1310e-003	7.6050e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDA	8.5880e-003	7.7690e-003
tblVehicleEF	LDA	0.75	0.72
tblVehicleEF	LDA	1.46	1.34
tblVehicleEF	LDA	296.71	285.32
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	2.9730e-003	2.8590e-003
tblVehicleEF	LDA	6.3200e-004	6.0800e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	7.4330e-003	6.9480e-003
tblVehicleEF	LDA	0.01	9.3860e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDA	0.66	0.63
tblVehicleEF	LDA	1.88	1.73
tblVehicleEF	LDA	277.81	267.16
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.13
tblVehicleEF	LDA	2.7830e-003	2.6760e-003
tblVehicleEF	LDA	6.3900e-004	6.1500e-004
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.14
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.51	1.39

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDT1	3.68	3.36
tblVehicleEF	LDT1	349.50	340.08
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.22	0.20
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.26	0.24
tblVehicleEF	LDT1	3.5140e-003	3.4180e-003
tblVehicleEF	LDT1	8.1400e-004	7.9200e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.29	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.66	1.54
tblVehicleEF	LDT1	3.02	2.76

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDT1	368.39	358.51
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	3.7050e-003	3.6040e-003
tblVehicleEF	LDT1	8.0300e-004	7.8200e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.48	1.37
tblVehicleEF	LDT1	3.96	3.61
tblVehicleEF	LDT1	346.09	336.75

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.28	0.25
tblVehicleEF	LDT1	3.4790e-003	3.3840e-003
tblVehicleEF	LDT1	8.1900e-004	7.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT2	6.7070e-003	6.2050e-003
tblVehicleEF	LDT2	8.5260e-003	7.5060e-003
tblVehicleEF	LDT2	0.78	0.73
tblVehicleEF	LDT2	1.77	1.59
tblVehicleEF	LDT2	393.35	380.39
tblVehicleEF	LDT2	84.92	82.33

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	3.9390e-003	3.8090e-003
tblVehicleEF	LDT2	8.7900e-004	8.5000e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.13	0.11
tblVehicleEF	LDT2	7.2030e-003	6.6680e-003
tblVehicleEF	LDT2	7.4120e-003	6.5270e-003
tblVehicleEF	LDT2	0.87	0.82
tblVehicleEF	LDT2	1.47	1.31
tblVehicleEF	LDT2	415.21	401.53
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.08	0.07

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	4.1590e-003	4.0210e-003
tblVehicleEF	LDT2	8.7400e-004	8.4500e-004
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	6.6010e-003	6.1060e-003
tblVehicleEF	LDT2	8.9850e-003	7.9100e-003
tblVehicleEF	LDT2	0.76	0.72
tblVehicleEF	LDT2	1.90	1.70
tblVehicleEF	LDT2	389.40	376.56
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.16	0.14

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tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	3.8990e-003	3.7700e-003
tblVehicleEF	LDT2	8.8200e-004	8.5200e-004
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.30	1.20
tblVehicleEF	LHD1	2.67	2.51
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29

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tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.87	1.74
tblVehicleEF	LHD1	0.97	0.93
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.27	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5100e-004	3.4000e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.30	0.28

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tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.32	1.22
tblVehicleEF	LHD1	2.52	2.37
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.79	1.67
tblVehicleEF	LHD1	0.92	0.89
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.26	0.24

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tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.4900e-004	3.3800e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.29	0.27
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.29	1.20
tblVehicleEF	LHD1	2.74	2.57
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.86	1.73
tblVehicleEF	LHD1	0.99	0.95
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.28	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5300e-004	3.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.31	0.29
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.7230e-003	8.7750e-003
tblVehicleEF	LHD2	9.2800e-003	8.1910e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.33	1.22
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.23	1.07
tblVehicleEF	LHD2	0.55	0.51
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7100e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.8550e-003	8.8860e-003
tblVehicleEF	LHD2	8.8860e-003	7.8500e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.26	1.16
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.18	1.03
tblVehicleEF	LHD2	0.52	0.49
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7700e-004	2.7000e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.6650e-003	8.7260e-003
tblVehicleEF	LHD2	9.4580e-003	8.3440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.67	0.62
tblVehicleEF	LHD2	1.36	1.26
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.22	1.07
tblVehicleEF	LHD2	0.56	0.52
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004

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tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7200e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.48	20.90
tblVehicleEF	MCY	9.67	9.69
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22

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tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	2.47	2.46
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	6.8700e-004	6.8300e-004
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	3.03	3.03
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.33	2.31
tblVehicleEF	MCY	0.46	0.47
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	20.40	19.88
tblVehicleEF	MCY	8.75	8.75
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.05	1.05
tblVehicleEF	MCY	0.29	0.29

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tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.38	2.38
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	1.86	1.85
tblVehicleEF	MCY	2.2090e-003	2.2100e-003
tblVehicleEF	MCY	6.6400e-004	6.6000e-004
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.93	2.93
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	2.02	2.01
tblVehicleEF	MCY	0.48	0.49
tblVehicleEF	MCY	0.17	0.17
tblVehicleEF	MCY	22.23	21.61
tblVehicleEF	MCY	10.16	10.18
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.18	1.17
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.0020e-003	2.0750e-003

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tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	2.52	2.50
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.28	2.26
tblVehicleEF	MCY	2.2420e-003	2.2410e-003
tblVehicleEF	MCY	6.9900e-004	6.9500e-004
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	3.09	3.08
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.48	2.46
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.31	1.18
tblVehicleEF	MDV	3.15	2.86
tblVehicleEF	MDV	521.37	506.28
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.29	0.26
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003

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tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	5.2220e-003	5.0690e-003
tblVehicleEF	MDV	1.1680e-003	1.1340e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	1.43	1.30
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	549.63	533.72
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003

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tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	5.5060e-003	5.3450e-003
tblVehicleEF	MDV	1.1580e-003	1.1250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.29	1.16
tblVehicleEF	MDV	3.38	3.07
tblVehicleEF	MDV	516.26	501.32
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.30	0.27
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.26	0.23
tblVehicleEF	MDV	5.1710e-003	5.0200e-003
tblVehicleEF	MDV	1.1720e-003	1.1370e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.28	0.25
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.45	3.71
tblVehicleEF	MH	7.68	7.07
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.01	0.97
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03

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tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6700e-004	7.3200e-004
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.51	0.45
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.56	3.84
tblVehicleEF	MH	7.19	6.60
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.68	1.60
tblVehicleEF	MH	0.96	0.92
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.19	0.16
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.39
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5800e-004	7.2400e-004
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.26	0.22
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.42	3.66
tblVehicleEF	MH	7.93	7.29
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.03	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7100e-004	7.3500e-004
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.46
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2830e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.65	0.45
tblVehicleEF	MHD	7.28	6.60
tblVehicleEF	MHD	149.39	146.10
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.97	0.62

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MHD	2.26	1.59
tblVehicleEF	MHD	11.17	11.06
tblVehicleEF	MHD	2.9800e-003	7.6400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.8510e-003	7.3100e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.43	0.39
tblVehicleEF	MHD	1.4370e-003	1.4060e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0700e-004	6.9300e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.48	0.43
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.3910e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.66	0.45
tblVehicleEF	MHD	6.84	6.20
tblVehicleEF	MHD	158.23	154.74
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	1.00	0.64
tblVehicleEF	MHD	2.18	1.53
tblVehicleEF	MHD	11.12	11.01
tblVehicleEF	MHD	2.5120e-003	6.4400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.4030e-003	6.1600e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	1.5200e-003	1.4870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9900e-004	6.8600e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2360e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.59	0.50
tblVehicleEF	MHD	0.65	0.44
tblVehicleEF	MHD	7.48	6.77
tblVehicleEF	MHD	137.16	134.14
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.92	0.60
tblVehicleEF	MHD	2.25	1.58
tblVehicleEF	MHD	11.19	11.08
tblVehicleEF	MHD	3.6260e-003	9.2900e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	3.4690e-003	8.8900e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.03

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.12	0.06
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	1.3220e-003	1.2930e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	6.9600e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.49	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.94	0.82
tblVehicleEF	OBUS	6.81	6.39
tblVehicleEF	OBUS	107.53	108.17
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.64	0.57
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.51	2.43
tblVehicleEF	OBUS	2.9900e-004	2.0000e-004

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.8600e-004	1.9100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.0380e-003	1.0440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1800e-004	8.0500e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.47	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.96	0.84

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	OBUS	6.38	5.98
tblVehicleEF	OBUS	112.91	113.58
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.66	0.59
tblVehicleEF	OBUS	2.08	1.76
tblVehicleEF	OBUS	2.46	2.38
tblVehicleEF	OBUS	2.5200e-004	1.6800e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.4100e-004	1.6100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.41	0.38
tblVehicleEF	OBUS	1.0900e-003	1.0960e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1100e-004	7.9800e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.45	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.31
tblVehicleEF	OBUS	0.94	0.81
tblVehicleEF	OBUS	7.01	6.58
tblVehicleEF	OBUS	100.11	100.69
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.61	0.54
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.54	2.45
tblVehicleEF	OBUS	3.6400e-004	2.4300e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	3.4800e-004	2.3200e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	OBUS	0.44	0.41
tblVehicleEF	OBUS	9.6700e-004	9.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	8.0800e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.44
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	6.15	6.28
tblVehicleEF	SBUS	1.17	1.09
tblVehicleEF	SBUS	7.72	7.52
tblVehicleEF	SBUS	1,247.19	1,232.55
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.29	11.52
tblVehicleEF	SBUS	5.27	4.87
tblVehicleEF	SBUS	14.90	14.64
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.76
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	5.3300e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.43	0.42
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	6.00	6.14
tblVehicleEF	SBUS	1.19	1.11
tblVehicleEF	SBUS	6.04	5.88

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	SBUS	1,309.86	1,293.97
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.69	11.89
tblVehicleEF	SBUS	5.07	4.69
tblVehicleEF	SBUS	14.87	14.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.75
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.33
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.9500e-004	5.0600e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.06	1.08

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.38	0.36
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	6.36	6.48
tblVehicleEF	SBUS	1.16	1.08
tblVehicleEF	SBUS	8.56	8.33
tblVehicleEF	SBUS	1,160.65	1,147.74
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	11.75	11.01
tblVehicleEF	SBUS	5.25	4.85
tblVehicleEF	SBUS	14.92	14.65
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.75	0.76

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.41
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.3700e-004	5.4700e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.45
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	8.55	8.13
tblVehicleEF	UBUS	6.93	6.99
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.97	8.18
tblVehicleEF	UBUS	14.67	14.39
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1880e-003	1.2270e-003
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	2.75	2.56
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.66	0.67
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	8.57	8.15
tblVehicleEF	UBUS	5.91	5.97
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.65	7.89
tblVehicleEF	UBUS	14.62	14.34
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1710e-003	1.2090e-003
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	2.75	2.57
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.60	0.60
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	8.54	8.12
tblVehicleEF	UBUS	7.38	7.45
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.92	8.14
tblVehicleEF	UBUS	14.70	14.42
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004

Boulder Brush Construction Unmitigated - San Diego County, Summer

tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.62	0.63
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1960e-003	1.2350e-003
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	2.74	2.56
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.68	0.69

2.0 Emissions Summary

Boulder Brush Construction Unmitigated - San Diego County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.2808	135.2482	79.2337	0.1979	61.9276	5.8865	67.8141	28.9237	5.4394	34.3630	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470
2020	1.2956	8.6288	9.3972	0.0383	3.5575	0.2565	3.8140	0.9233	0.2540	1.1772	0.0000	3,899.4671	3,899.4671	0.1981	0.0000	3,904.4189
Maximum	12.2808	135.2482	79.2337	0.1979	61.9276	5.8865	67.8141	28.9237	5.4394	34.3630	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.2808	135.2482	79.2337	0.1979	27.9385	5.8865	33.8250	12.2730	5.4394	17.7123	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470
2020	1.2956	8.6288	9.3972	0.0383	3.5575	0.2565	3.8140	0.9233	0.2540	1.1772	0.0000	3,899.4671	3,899.4671	0.1981	0.0000	3,904.4189
Maximum	12.2808	135.2482	79.2337	0.1979	27.9385	5.8865	33.8250	12.2730	5.4394	17.7123	0.0000	20,029.5576	20,029.5576	4.1156	0.0000	20,132.4470

	ROG	NOx	CO	SO2	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	51.90	0.00	47.45	55.79	0.00	46.85	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Construction Unmitigated - 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	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.2930	0.0611	0.1727	6.2000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		66.6095	66.6095	3.1300e-003	1.2000e-004	66.7233

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.2930	0.0611	0.1727	6.2000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		66.6095	66.6095	3.1300e-003	1.2000e-004	66.7233

Boulder Brush Construction Unmitigated - 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	Boulder Clearing and Grading	Grading	9/21/2019	10/26/2019	5	25	
2	Boulder Construction Access Roads	Grading	10/13/2019	12/21/2019	5	50	
3	Boulder Foundation Construction and Tower Erection	Building Construction	11/3/2019	12/28/2019	5	40	
4	Boulder Stringing and Pulling	Building Construction	12/8/2019	2/2/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Boulder Brush Construction Unmitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Boulder Clearing and Grading	Graders	2	7.00	187	0.41
Boulder Clearing and Grading	Rubber Tired Dozers	4	8.00	247	0.40
Boulder Clearing and Grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Boulder Construction Access Roads	Pavers	1	8.00	130	0.42
Boulder Construction Access Roads	Paving Equipment	4	8.00	132	0.36
Boulder Construction Access Roads	Pumps	1	7.00	84	0.74
Boulder Construction Access Roads	Rollers	4	8.00	80	0.38
Boulder Construction Access Roads	Scrapers	2	8.00	367	0.48
Boulder Foundation Construction and Tower Erection	Air Compressors	1	7.00	78	0.48
Boulder Foundation Construction and Tower Erection	Forklifts	1	8.00	89	0.20
Boulder Foundation Construction and Tower Erection	Generator Sets	2	6.00	84	0.74
Boulder Foundation Construction and Tower Erection	Pumps	1	7.00	84	0.74
Boulder Foundation Construction and Tower Erection	Welders	1	7.00	46	0.45
Boulder Stringing and Pulling	Air Compressors	1	7.00	78	0.48
Boulder Stringing and Pulling	Welders	1	7.00	46	0.45

Trips and VMT

Boulder Brush Construction Unmitigated - San Diego County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Boulder Clearing and Grading	10	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Clearing and Grading	10	48.00	20.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	48.00	10.00	32.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	96.00	10.00	30.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	72.00	10.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Boulder Clearing and Grading - 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					
Fugitive Dust					55.7198	0.0000	55.7198	27.2963	0.0000	27.2963			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090		5,608.9579	5,608.9579	1.7746		5,653.3233
Total	6.2050	67.9928	28.4123	0.0566	55.7198	3.2706	58.9904	27.2963	3.0090	30.3053		5,608.9579	5,608.9579	1.7746		5,653.3233

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.2 Boulder Clearing and Grading - 2019**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	0.4996	10.6277	2.8898	0.0354	1.8072	0.1275	1.9347	0.4879	0.1220	0.6099		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.8619	10.9122	6.0514	0.0451	3.5263	0.1336	3.6599	0.9280	0.1276	1.0556		4,751.3892	4,751.3892	0.2283		4,757.0970

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7307	0.0000	21.7307	10.6456	0.0000	10.6456			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233
Total	6.2050	67.9928	28.4123	0.0566	21.7307	3.2706	25.0013	10.6456	3.0090	13.6545	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.2 Boulder Clearing and Grading - 2019**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	0.4996	10.6277	2.8898	0.0354	1.8072	0.1275	1.9347	0.4879	0.1220	0.6099		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.8619	10.9122	6.0514	0.0451	3.5263	0.1336	3.6599	0.9280	0.1276	1.0556		4,751.3892	4,751.3892	0.2283		4,757.0970

3.3 Boulder Construction Access Roads - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5877	50.2966	40.0560	0.0675		2.4103	2.4103		2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909
Total	4.5877	50.2966	40.0560	0.0675	0.0000	2.4103	2.4103	0.0000	2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.3 Boulder Construction Access Roads - 2019**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	0.0142	0.4484	0.1075	1.3900e-003	0.0589	2.0800e-003	0.0610	0.0154	1.9900e-003	0.0174		151.5119	151.5119	0.0120		151.8113
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.6263	6.0467	4.7139	0.0287	2.6816	0.0720	2.7535	0.6994	0.0686	0.7681		3,006.9158	3,006.9158	0.1408		3,010.4358

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5877	50.2966	40.0560	0.0675		2.4103	2.4103		2.2341	2.2341	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909
Total	4.5877	50.2966	40.0560	0.0675	0.0000	2.4103	2.4103	0.0000	2.2341	2.2341	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.3 Boulder Construction Access Roads - 2019**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	0.0142	0.4484	0.1075	1.3900e-003	0.0589	2.0800e-003	0.0610	0.0154	1.9900e-003	0.0174		151.5119	151.5119	0.0120		151.8113
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.3623	0.2845	3.1616	9.6300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		959.4186	959.4186	0.0293		960.1521
Total	0.6263	6.0467	4.7139	0.0287	2.6816	0.0720	2.7535	0.6994	0.0686	0.7681		3,006.9158	3,006.9158	0.1408		3,010.4358

3.4 Boulder Foundation Construction and Tower Erection - 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	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669
Total	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.4 Boulder Foundation Construction and Tower Erection - 2019**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	0.0166	0.5254	0.1259	1.6300e-003	0.0690	2.4300e-003	0.0715	0.0181	2.3300e-003	0.0204		177.5531	177.5531	0.0140		177.9039
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.7246	0.5690	6.3231	0.0193	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9910	6.4083	7.8940	0.0386	4.4107	0.0785	4.4892	1.1421	0.0747	1.2168		3,992.3755	3,992.3755	0.1722		3,996.6806

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.4 Boulder Foundation Construction and Tower Erection - 2019**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	0.0166	0.5254	0.1259	1.6300e-003	0.0690	2.4300e-003	0.0715	0.0181	2.3300e-003	0.0204		177.5531	177.5531	0.0140		177.9039
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.7246	0.5690	6.3231	0.0193	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9910	6.4083	7.8940	0.0386	4.4107	0.0785	4.4892	1.1421	0.0747	1.2168		3,992.3755	3,992.3755	0.1722		3,996.6806

3.5 Boulder Stringing and Pulling - 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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 2019**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	0.0111	0.3503	0.0840	1.0800e-003	0.0997	1.6200e-003	0.1013	0.0252	1.5500e-003	0.0268		118.3687	118.3687	9.3600e-003		118.6026
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.5434	0.4268	4.7424	0.0144	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,439.1279	1,439.1279	0.0440		1,440.2282
Total	0.8043	6.0909	6.2712	0.0332	3.5818	0.0746	3.6564	0.9293	0.0710	1.0003		3,453.4819	3,453.4819	0.1529		3,457.3032

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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 2019**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	0.0111	0.3503	0.0840	1.0800e-003	0.0997	1.6200e-003	0.1013	0.0252	1.5500e-003	0.0268		118.3687	118.3687	9.3600e-003		118.6026
Vendor	0.2498	5.3138	1.4449	0.0177	0.9036	0.0638	0.9674	0.2440	0.0610	0.3049		1,895.9853	1,895.9853	0.0995		1,898.4724
Worker	0.5434	0.4268	4.7424	0.0144	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,439.1279	1,439.1279	0.0440		1,440.2282
Total	0.8043	6.0909	6.2712	0.0332	3.5818	0.0746	3.6564	0.9293	0.0710	1.0003		3,453.4819	3,453.4819	0.1529		3,457.3032

3.5 Boulder Stringing and Pulling - 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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0101	0.3216	0.0827	1.0700e-003	0.0753	1.2800e-003	0.0766	0.0192	1.2300e-003	0.0205		116.9439	116.9439	9.3500e-003		117.1775
Vendor	0.1946	4.5822	1.2827	0.0175	0.9036	0.0407	0.9443	0.2440	0.0389	0.2829		1,878.9669	1,878.9669	0.0966		1,881.3815
Worker	0.5090	0.3856	4.3490	0.0140	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.7137	5.2894	5.7144	0.0326	3.5575	0.0510	3.6085	0.9233	0.0485	0.9718		3,389.5680	3,389.5680	0.1458		3,393.2134

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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055

Boulder Brush Construction Unmitigated - San Diego County, Summer

3.5 Boulder Stringing and Pulling - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0101	0.3216	0.0827	1.0700e-003	0.0753	1.2800e-003	0.0766	0.0192	1.2300e-003	0.0205		116.9439	116.9439	9.3500e-003		117.1775
Vendor	0.1946	4.5822	1.2827	0.0175	0.9036	0.0407	0.9443	0.2440	0.0389	0.2829		1,878.9669	1,878.9669	0.0966		1,881.3815
Worker	0.5090	0.3856	4.3490	0.0140	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.7137	5.2894	5.7144	0.0326	3.5575	0.0510	3.6085	0.9233	0.0485	0.9718		3,389.5680	3,389.5680	0.1458		3,393.2134

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

Boulder Brush Construction Unmitigated - 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	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Unmitigated	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Construction Unmitigated - San Diego County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Boulder Brush Construction Unmitigated - 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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Boulder Brush Construction Unmitigated - San Diego County, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

Boulder Brush Construction Unmitigated - San Diego County, Summer

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**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

Boulder Brush Construction Unmitigated - San Diego County, Winter

Boulder Brush Construction Unmitigated
San Diego County, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Construction Unmitigated - San Diego County, Winter

Project Characteristics - Boulder Brush Construction Unmitigated. 2016 RPS for SDG&E

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by bio report.

Land Use Change -

Construction Off-road Equipment Mitigation - Construction PDF-AQ-1 fugitive dust control measures.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	0	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	100.00	40.00
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	2.00	50.00
tblFleetMix	HHD	0.02	0.02
tblFleetMix	LDA	0.59	0.59
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.5580e-003	5.5130e-003
tblFleetMix	MCY	6.1810e-003	6.0900e-003

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tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	1.2710e-003	1.1930e-003
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9020e-003	1.9120e-003
tblFleetMix	SBUS	7.4500e-004	7.4800e-004
tblFleetMix	UBUS	2.0240e-003	1.9720e-003
tblGrading	AcresOfGrading	21.88	0.00
tblGrading	AcresOfGrading	21.88	177.82
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00

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tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	0.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00

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tblVehicleEF	HHD	0.81	0.78
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	2.77	2.62
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.66	3.46
tblVehicleEF	HHD	4,760.03	4,715.65
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.16	21.83
tblVehicleEF	HHD	4.29	3.83
tblVehicleEF	HHD	19.63	19.62
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.69	0.65
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6700e-004	1.6000e-004
tblVehicleEF	HHD	1.1200e-004	9.9000e-005
tblVehicleEF	HHD	6.5690e-003	5.3330e-003
tblVehicleEF	HHD	0.81	0.77
tblVehicleEF	HHD	1.0300e-004	9.2000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.2800e-004	5.3100e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.77	0.73
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.11	0.10
tblVehicleEF	HHD	2.02	1.91
tblVehicleEF	HHD	1.16	1.16
tblVehicleEF	HHD	3.44	3.25
tblVehicleEF	HHD	5,039.91	4,994.00
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27
tblVehicleEF	HHD	23.90	22.53
tblVehicleEF	HHD	4.13	3.69
tblVehicleEF	HHD	19.62	19.60
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.02	0.02

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tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.65	0.61
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.12	0.10
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6400e-004	1.5700e-004
tblVehicleEF	HHD	1.7100e-004	1.5000e-004
tblVehicleEF	HHD	6.7500e-003	5.5070e-003
tblVehicleEF	HHD	0.76	0.72
tblVehicleEF	HHD	1.9000e-004	1.6700e-004
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.1500e-004	5.1800e-004
tblVehicleEF	HHD	0.13	0.11
tblVehicleEF	HHD	0.88	0.84
tblVehicleEF	HHD	0.13	0.13
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	3.81	3.61
tblVehicleEF	HHD	1.15	1.15
tblVehicleEF	HHD	3.76	3.55
tblVehicleEF	HHD	4,373.53	4,331.26
tblVehicleEF	HHD	1,681.18	1,659.46
tblVehicleEF	HHD	10.62	10.27

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	HHD	22.14	20.87
tblVehicleEF	HHD	4.28	3.82
tblVehicleEF	HHD	19.64	19.62
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.3700e-004	1.0500e-004
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2700e-004	9.6000e-005
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.74	0.70
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.14	0.13
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6900e-004	1.6200e-004
tblVehicleEF	HHD	1.0000e-004	8.8000e-005
tblVehicleEF	HHD	7.6040e-003	5.8980e-003
tblVehicleEF	HHD	0.87	0.83
tblVehicleEF	HHD	9.0000e-005	8.0000e-005
tblVehicleEF	HHD	0.28	0.27
tblVehicleEF	HHD	6.8600e-004	5.8300e-004
tblVehicleEF	HHD	0.14	0.12

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDA	7.5560e-003	7.0640e-003
tblVehicleEF	LDA	9.8610e-003	8.9160e-003
tblVehicleEF	LDA	0.67	0.64
tblVehicleEF	LDA	1.76	1.61
tblVehicleEF	LDA	280.70	269.94
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.13	0.12
tblVehicleEF	LDA	2.8120e-003	2.7040e-003
tblVehicleEF	LDA	6.3700e-004	6.1300e-004
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.13
tblVehicleEF	LDA	8.1310e-003	7.6050e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDA	8.5880e-003	7.7690e-003
tblVehicleEF	LDA	0.75	0.72
tblVehicleEF	LDA	1.46	1.34
tblVehicleEF	LDA	296.71	285.32
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.07	0.06
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.12	0.10
tblVehicleEF	LDA	2.9730e-003	2.8590e-003
tblVehicleEF	LDA	6.3200e-004	6.0800e-004
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.13	0.11
tblVehicleEF	LDA	7.4330e-003	6.9480e-003
tblVehicleEF	LDA	0.01	9.3860e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDA	0.66	0.63
tblVehicleEF	LDA	1.88	1.73
tblVehicleEF	LDA	277.81	267.16
tblVehicleEF	LDA	60.62	58.50
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.11	0.09
tblVehicleEF	LDA	1.9230e-003	1.9050e-003
tblVehicleEF	LDA	2.2920e-003	2.2860e-003
tblVehicleEF	LDA	1.7730e-003	1.7570e-003
tblVehicleEF	LDA	2.1070e-003	2.1020e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.14	0.13
tblVehicleEF	LDA	2.7830e-003	2.6760e-003
tblVehicleEF	LDA	6.3900e-004	6.1500e-004
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.15	0.14
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.51	1.39

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDT1	3.68	3.36
tblVehicleEF	LDT1	349.50	340.08
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.22	0.20
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.26	0.24
tblVehicleEF	LDT1	3.5140e-003	3.4180e-003
tblVehicleEF	LDT1	8.1400e-004	7.9200e-004
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.32	0.30
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.21
tblVehicleEF	LDT1	0.29	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.66	1.54
tblVehicleEF	LDT1	3.02	2.76

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tblVehicleEF	LDT1	368.39	358.51
tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.23	0.20
tblVehicleEF	LDT1	3.7050e-003	3.6040e-003
tblVehicleEF	LDT1	8.0300e-004	7.8200e-004
tblVehicleEF	LDT1	0.18	0.17
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.19
tblVehicleEF	LDT1	0.25	0.22
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.48	1.37
tblVehicleEF	LDT1	3.96	3.61
tblVehicleEF	LDT1	346.09	336.75

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDT1	74.92	73.28
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	0.23	0.21
tblVehicleEF	LDT1	2.9980e-003	2.8810e-003
tblVehicleEF	LDT1	3.6780e-003	3.5170e-003
tblVehicleEF	LDT1	2.7620e-003	2.6540e-003
tblVehicleEF	LDT1	3.3820e-003	3.2340e-003
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.28	0.25
tblVehicleEF	LDT1	3.4790e-003	3.3840e-003
tblVehicleEF	LDT1	8.1900e-004	7.9600e-004
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.37	0.35
tblVehicleEF	LDT1	0.11	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.26	0.25
tblVehicleEF	LDT1	0.30	0.27
tblVehicleEF	LDT2	6.7070e-003	6.2050e-003
tblVehicleEF	LDT2	8.5260e-003	7.5060e-003
tblVehicleEF	LDT2	0.78	0.73
tblVehicleEF	LDT2	1.77	1.59
tblVehicleEF	LDT2	393.35	380.39
tblVehicleEF	LDT2	84.92	82.33

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.15	0.13
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	3.9390e-003	3.8090e-003
tblVehicleEF	LDT2	8.7900e-004	8.5000e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.13	0.11
tblVehicleEF	LDT2	7.2030e-003	6.6680e-003
tblVehicleEF	LDT2	7.4120e-003	6.5270e-003
tblVehicleEF	LDT2	0.87	0.82
tblVehicleEF	LDT2	1.47	1.31
tblVehicleEF	LDT2	415.21	401.53
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.08	0.07

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LDT2	0.14	0.12
tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	4.1590e-003	4.0210e-003
tblVehicleEF	LDT2	8.7400e-004	8.4500e-004
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	6.6010e-003	6.1060e-003
tblVehicleEF	LDT2	8.9850e-003	7.9100e-003
tblVehicleEF	LDT2	0.76	0.72
tblVehicleEF	LDT2	1.90	1.70
tblVehicleEF	LDT2	389.40	376.56
tblVehicleEF	LDT2	84.92	82.33
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.16	0.14

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tblVehicleEF	LDT2	1.7920e-003	1.8080e-003
tblVehicleEF	LDT2	2.2190e-003	2.2310e-003
tblVehicleEF	LDT2	1.6480e-003	1.6630e-003
tblVehicleEF	LDT2	2.0400e-003	2.0510e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.12	0.11
tblVehicleEF	LDT2	3.8990e-003	3.7700e-003
tblVehicleEF	LDT2	8.8200e-004	8.5200e-004
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.14	0.13
tblVehicleEF	LDT2	0.05	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.13	0.12
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.30	1.20
tblVehicleEF	LHD1	2.67	2.51
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29

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tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.87	1.74
tblVehicleEF	LHD1	0.97	0.93
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.27	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5100e-004	3.4000e-004
tblVehicleEF	LHD1	2.3730e-003	2.3070e-003
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7530e-003	1.7280e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.30	0.30
tblVehicleEF	LHD1	0.30	0.28

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tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.32	1.22
tblVehicleEF	LHD1	2.52	2.37
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.79	1.67
tblVehicleEF	LHD1	0.92	0.89
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.26	0.24

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tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.4900e-004	3.3800e-004
tblVehicleEF	LHD1	3.4350e-003	3.3350e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9810e-003	2.9220e-003
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.29	0.28
tblVehicleEF	LHD1	0.29	0.27
tblVehicleEF	LHD1	5.4350e-003	5.1890e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	1.29	1.20
tblVehicleEF	LHD1	2.74	2.57
tblVehicleEF	LHD1	9.28	9.28
tblVehicleEF	LHD1	695.30	687.44
tblVehicleEF	LHD1	30.08	29.29
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.86	1.73
tblVehicleEF	LHD1	0.99	0.95
tblVehicleEF	LHD1	1.0190e-003	1.0250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8100e-004	9.1400e-004
tblVehicleEF	LHD1	9.7500e-004	9.8100e-004
tblVehicleEF	LHD1	2.5460e-003	2.5590e-003

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0300e-004	8.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.15	0.14
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.28	0.26
tblVehicleEF	LHD1	6.8190e-003	6.7370e-003
tblVehicleEF	LHD1	3.5300e-004	3.4100e-004
tblVehicleEF	LHD1	2.2160e-003	2.1440e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.5490e-003	1.5280e-003
tblVehicleEF	LHD1	0.18	0.17
tblVehicleEF	LHD1	0.33	0.33
tblVehicleEF	LHD1	0.31	0.29
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.7230e-003	8.7750e-003
tblVehicleEF	LHD2	9.2800e-003	8.1910e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.33	1.22
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.23	1.07
tblVehicleEF	LHD2	0.55	0.51
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7100e-004
tblVehicleEF	LHD2	8.8700e-004	8.1200e-004
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0500e-004	6.6100e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.8550e-003	8.8860e-003
tblVehicleEF	LHD2	8.8860e-003	7.8500e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.68	0.63
tblVehicleEF	LHD2	1.26	1.16
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.18	1.03
tblVehicleEF	LHD2	0.52	0.49
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004
tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.08	0.07

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tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7700e-004	2.7000e-004
tblVehicleEF	LHD2	1.2880e-003	1.1790e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2000e-003	1.1210e-003
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.08	0.07
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	4.0010e-003	3.7920e-003
tblVehicleEF	LHD2	9.6650e-003	8.7260e-003
tblVehicleEF	LHD2	9.4580e-003	8.3440e-003
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.67	0.62
tblVehicleEF	LHD2	1.36	1.26
tblVehicleEF	LHD2	14.23	14.18
tblVehicleEF	LHD2	728.63	720.45
tblVehicleEF	LHD2	25.41	24.86
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	1.22	1.07
tblVehicleEF	LHD2	0.56	0.52
tblVehicleEF	LHD2	1.3150e-003	1.2990e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5400e-004	4.2000e-004

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tblVehicleEF	LHD2	1.2580e-003	1.2430e-003
tblVehicleEF	LHD2	2.6770e-003	2.6830e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.1800e-004	3.8600e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.12	0.11
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	1.3900e-004	1.3800e-004
tblVehicleEF	LHD2	7.0910e-003	7.0090e-003
tblVehicleEF	LHD2	2.7900e-004	2.7200e-004
tblVehicleEF	LHD2	8.1000e-004	7.3400e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2100e-004	5.8200e-004
tblVehicleEF	LHD2	0.14	0.13
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	MCY	0.47	0.48
tblVehicleEF	MCY	0.16	0.16
tblVehicleEF	MCY	21.48	20.90
tblVehicleEF	MCY	9.67	9.69
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22

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tblVehicleEF	MCY	1.17	1.16
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	2.47	2.46
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.14	2.13
tblVehicleEF	MCY	6.8700e-004	6.8300e-004
tblVehicleEF	MCY	0.92	0.93
tblVehicleEF	MCY	0.77	0.76
tblVehicleEF	MCY	0.74	0.74
tblVehicleEF	MCY	3.03	3.03
tblVehicleEF	MCY	0.62	0.61
tblVehicleEF	MCY	2.33	2.31
tblVehicleEF	MCY	0.46	0.47
tblVehicleEF	MCY	0.14	0.14
tblVehicleEF	MCY	20.40	19.88
tblVehicleEF	MCY	8.75	8.75
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.05	1.05
tblVehicleEF	MCY	0.29	0.29

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tblVehicleEF	MCY	2.0020e-003	2.0750e-003
tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.38	2.38
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	1.86	1.85
tblVehicleEF	MCY	2.2090e-003	2.2100e-003
tblVehicleEF	MCY	6.6400e-004	6.6000e-004
tblVehicleEF	MCY	1.50	1.50
tblVehicleEF	MCY	0.85	0.85
tblVehicleEF	MCY	1.45	1.44
tblVehicleEF	MCY	2.93	2.93
tblVehicleEF	MCY	0.58	0.57
tblVehicleEF	MCY	2.02	2.01
tblVehicleEF	MCY	0.48	0.49
tblVehicleEF	MCY	0.17	0.17
tblVehicleEF	MCY	22.23	21.61
tblVehicleEF	MCY	10.16	10.18
tblVehicleEF	MCY	180.59	181.50
tblVehicleEF	MCY	46.61	46.22
tblVehicleEF	MCY	1.18	1.17
tblVehicleEF	MCY	0.32	0.32
tblVehicleEF	MCY	2.0020e-003	2.0750e-003

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tblVehicleEF	MCY	4.0000e-003	3.9150e-003
tblVehicleEF	MCY	1.8770e-003	1.9430e-003
tblVehicleEF	MCY	3.7820e-003	3.6970e-003
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	2.52	2.50
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.28	2.26
tblVehicleEF	MCY	2.2420e-003	2.2410e-003
tblVehicleEF	MCY	6.9900e-004	6.9500e-004
tblVehicleEF	MCY	0.84	0.84
tblVehicleEF	MCY	1.03	1.03
tblVehicleEF	MCY	0.58	0.58
tblVehicleEF	MCY	3.09	3.08
tblVehicleEF	MCY	0.73	0.72
tblVehicleEF	MCY	2.48	2.46
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.31	1.18
tblVehicleEF	MDV	3.15	2.86
tblVehicleEF	MDV	521.37	506.28
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.29	0.26
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003

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tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.25	0.22
tblVehicleEF	MDV	5.2220e-003	5.0690e-003
tblVehicleEF	MDV	1.1680e-003	1.1340e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	1.43	1.30
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	549.63	533.72
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.14	0.13
tblVehicleEF	MDV	0.27	0.24
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003

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tblVehicleEF	MDV	2.2640e-003	2.2250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	5.5060e-003	5.3450e-003
tblVehicleEF	MDV	1.1580e-003	1.1250e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.23	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.29	1.16
tblVehicleEF	MDV	3.38	3.07
tblVehicleEF	MDV	516.26	501.32
tblVehicleEF	MDV	111.22	108.34
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.30	0.27
tblVehicleEF	MDV	1.9550e-003	1.9460e-003
tblVehicleEF	MDV	2.4590e-003	2.4170e-003
tblVehicleEF	MDV	1.8030e-003	1.7950e-003
tblVehicleEF	MDV	2.2640e-003	2.2250e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.26	0.23
tblVehicleEF	MDV	5.1710e-003	5.0200e-003
tblVehicleEF	MDV	1.1720e-003	1.1370e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.19	0.18
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.12	0.12
tblVehicleEF	MDV	0.28	0.25
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.45	3.71
tblVehicleEF	MH	7.68	7.07
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.01	0.97
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03

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tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.47	0.41
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.6700e-004	7.3200e-004
tblVehicleEF	MH	1.19	1.12
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.62	0.59
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.51	0.45
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.56	3.84
tblVehicleEF	MH	7.19	6.60
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.68	1.60
tblVehicleEF	MH	0.96	0.92
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003
tblVehicleEF	MH	3.2060e-003	3.2090e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.19	0.16
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.39
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.5800e-004	7.2400e-004
tblVehicleEF	MH	1.65	1.55
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	1.08	1.03
tblVehicleEF	MH	0.26	0.22
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	4.42	3.66
tblVehicleEF	MH	7.93	7.29
tblVehicleEF	MH	1,244.38	1,239.67
tblVehicleEF	MH	63.19	60.83
tblVehicleEF	MH	1.79	1.70
tblVehicleEF	MH	1.03	1.00
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.6580e-003	1.3290e-003

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tblVehicleEF	MH	3.2060e-003	3.2090e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.5340e-003	1.2220e-003
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.18	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.42
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.7100e-004	7.3500e-004
tblVehicleEF	MH	1.24	1.17
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.58	0.55
tblVehicleEF	MH	0.25	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.46
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2830e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.43	0.36
tblVehicleEF	MHD	0.65	0.45
tblVehicleEF	MHD	7.28	6.60
tblVehicleEF	MHD	149.39	146.10
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.97	0.62

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	MHD	2.26	1.59
tblVehicleEF	MHD	11.17	11.06
tblVehicleEF	MHD	2.9800e-003	7.6400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.8510e-003	7.3100e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.43	0.39
tblVehicleEF	MHD	1.4370e-003	1.4060e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0700e-004	6.9300e-004
tblVehicleEF	MHD	1.0710e-003	9.6600e-004
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	7.8800e-004	7.2600e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.48	0.43
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.3910e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	0.31	0.26
tblVehicleEF	MHD	0.66	0.45
tblVehicleEF	MHD	6.84	6.20
tblVehicleEF	MHD	158.23	154.74
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	1.00	0.64
tblVehicleEF	MHD	2.18	1.53
tblVehicleEF	MHD	11.12	11.01
tblVehicleEF	MHD	2.5120e-003	6.4400e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	2.4030e-003	6.1600e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.13	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.41	0.38
tblVehicleEF	MHD	1.5200e-003	1.4870e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9900e-004	6.8600e-004
tblVehicleEF	MHD	1.5880e-003	1.4290e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.4090e-003	1.2870e-003
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.45	0.41
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	6.2360e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.59	0.50
tblVehicleEF	MHD	0.65	0.44
tblVehicleEF	MHD	7.48	6.77
tblVehicleEF	MHD	137.16	134.14
tblVehicleEF	MHD	1,211.82	1,207.33
tblVehicleEF	MHD	57.90	57.76
tblVehicleEF	MHD	0.92	0.60
tblVehicleEF	MHD	2.25	1.58
tblVehicleEF	MHD	11.19	11.08
tblVehicleEF	MHD	3.6260e-003	9.2900e-004
tblVehicleEF	MHD	0.05	6.7210e-003
tblVehicleEF	MHD	9.8800e-004	9.3400e-004
tblVehicleEF	MHD	3.4690e-003	8.8900e-004
tblVehicleEF	MHD	0.04	6.4240e-003
tblVehicleEF	MHD	9.0800e-004	8.5900e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.04	0.03

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.12	0.06
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.44	0.40
tblVehicleEF	MHD	1.3220e-003	1.2930e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	6.9600e-004
tblVehicleEF	MHD	1.0090e-003	9.0300e-004
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	6.9400e-004	6.3900e-004
tblVehicleEF	MHD	0.15	0.07
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.49	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.29	0.29
tblVehicleEF	OBUS	0.94	0.82
tblVehicleEF	OBUS	6.81	6.39
tblVehicleEF	OBUS	107.53	108.17
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.64	0.57
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.51	2.43
tblVehicleEF	OBUS	2.9900e-004	2.0000e-004

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.8600e-004	1.9100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.43	0.40
tblVehicleEF	OBUS	1.0380e-003	1.0440e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1800e-004	8.0500e-004
tblVehicleEF	OBUS	1.4400e-003	1.3850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	9.0100e-004	8.8000e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.47	0.44
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.28	0.27
tblVehicleEF	OBUS	0.96	0.84

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	OBUS	6.38	5.98
tblVehicleEF	OBUS	112.91	113.58
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.66	0.59
tblVehicleEF	OBUS	2.08	1.76
tblVehicleEF	OBUS	2.46	2.38
tblVehicleEF	OBUS	2.5200e-004	1.6800e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	2.4100e-004	1.6100e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.41	0.38
tblVehicleEF	OBUS	1.0900e-003	1.0960e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1100e-004	7.9800e-004
tblVehicleEF	OBUS	2.0430e-003	1.9640e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.6430e-003	1.5960e-003

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.45	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.32	0.31
tblVehicleEF	OBUS	0.94	0.81
tblVehicleEF	OBUS	7.01	6.58
tblVehicleEF	OBUS	100.11	100.69
tblVehicleEF	OBUS	1,349.07	1,341.72
tblVehicleEF	OBUS	69.84	69.31
tblVehicleEF	OBUS	0.61	0.54
tblVehicleEF	OBUS	2.17	1.83
tblVehicleEF	OBUS	2.54	2.45
tblVehicleEF	OBUS	3.6400e-004	2.4300e-004
tblVehicleEF	OBUS	0.01	8.4740e-003
tblVehicleEF	OBUS	9.0300e-004	8.8300e-004
tblVehicleEF	OBUS	3.4800e-004	2.3200e-004
tblVehicleEF	OBUS	9.8830e-003	8.0840e-003
tblVehicleEF	OBUS	8.3200e-004	8.1200e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.09	0.08
tblVehicleEF	OBUS	0.05	0.05

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	OBUS	0.44	0.41
tblVehicleEF	OBUS	9.6700e-004	9.7300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.2200e-004	8.0800e-004
tblVehicleEF	OBUS	1.4050e-003	1.3410e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	8.1700e-004	7.9700e-004
tblVehicleEF	OBUS	0.12	0.10
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.48	0.44
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.09	0.09
tblVehicleEF	SBUS	6.15	6.28
tblVehicleEF	SBUS	1.17	1.09
tblVehicleEF	SBUS	7.72	7.52
tblVehicleEF	SBUS	1,247.19	1,232.55
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.29	11.52
tblVehicleEF	SBUS	5.27	4.87
tblVehicleEF	SBUS	14.90	14.64
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.76
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.2400e-004	5.3300e-004
tblVehicleEF	SBUS	2.6290e-003	2.4020e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.5270e-003	1.4680e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.43	0.42
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	6.00	6.14
tblVehicleEF	SBUS	1.19	1.11
tblVehicleEF	SBUS	6.04	5.88

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	SBUS	1,309.86	1,293.97
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	12.69	11.89
tblVehicleEF	SBUS	5.07	4.69
tblVehicleEF	SBUS	14.87	14.60
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.74	0.75
tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.34	0.33
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.9500e-004	5.0600e-004
tblVehicleEF	SBUS	3.6960e-003	3.3880e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.06	1.08

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	SBUS	2.7830e-003	2.6690e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.38	0.36
tblVehicleEF	SBUS	0.88	0.87
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	6.36	6.48
tblVehicleEF	SBUS	1.16	1.08
tblVehicleEF	SBUS	8.56	8.33
tblVehicleEF	SBUS	1,160.65	1,147.74
tblVehicleEF	SBUS	1,129.88	1,121.00
tblVehicleEF	SBUS	39.00	40.31
tblVehicleEF	SBUS	11.75	11.01
tblVehicleEF	SBUS	5.25	4.85
tblVehicleEF	SBUS	14.92	14.65
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	7.4800e-004
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.7390e-003	2.7300e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	6.8800e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.75	0.76

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.41
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	5.3700e-004	5.4700e-004
tblVehicleEF	SBUS	2.6180e-003	2.3450e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.07	1.09
tblVehicleEF	SBUS	1.3800e-003	1.3180e-003
tblVehicleEF	SBUS	0.17	0.16
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.46	0.45
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	8.55	8.13
tblVehicleEF	UBUS	6.93	6.99
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.97	8.18
tblVehicleEF	UBUS	14.67	14.39
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.60	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1880e-003	1.2270e-003
tblVehicleEF	UBUS	2.0420e-003	2.1010e-003
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.9360e-003	2.0280e-003
tblVehicleEF	UBUS	2.75	2.56
tblVehicleEF	UBUS	8.1940e-003	8.6280e-003
tblVehicleEF	UBUS	0.66	0.67
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	8.57	8.15
tblVehicleEF	UBUS	5.91	5.97
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.65	7.89
tblVehicleEF	UBUS	14.62	14.34
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004
tblVehicleEF	UBUS	0.25	0.25

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.55	0.55
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1710e-003	1.2090e-003
tblVehicleEF	UBUS	2.5120e-003	2.5840e-003
tblVehicleEF	UBUS	0.04	0.05
tblVehicleEF	UBUS	3.4810e-003	3.6340e-003
tblVehicleEF	UBUS	2.75	2.57
tblVehicleEF	UBUS	7.3480e-003	7.7270e-003
tblVehicleEF	UBUS	0.60	0.60
tblVehicleEF	UBUS	2.00	1.88
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	8.54	8.12
tblVehicleEF	UBUS	7.38	7.45
tblVehicleEF	UBUS	1,976.87	1,953.87
tblVehicleEF	UBUS	106.18	109.95
tblVehicleEF	UBUS	8.92	8.14
tblVehicleEF	UBUS	14.70	14.42
tblVehicleEF	UBUS	0.59	0.58
tblVehicleEF	UBUS	0.14	0.13
tblVehicleEF	UBUS	8.0800e-004	8.7600e-004

Boulder Brush Construction Unmitigated - San Diego County, Winter

tblVehicleEF	UBUS	0.25	0.25
tblVehicleEF	UBUS	0.13	0.12
tblVehicleEF	UBUS	7.4300e-004	8.0600e-004
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	0.67	0.61
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.62	0.63
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	1.1960e-003	1.2350e-003
tblVehicleEF	UBUS	1.9160e-003	1.9570e-003
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	1.7620e-003	1.8420e-003
tblVehicleEF	UBUS	2.74	2.56
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.68	0.69

2.0 Emissions Summary

Boulder Brush Construction Unmitigated - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.4203	135.7613	78.7517	0.1965	61.9276	5.8870	67.8146	28.9237	5.4398	34.3635	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45
2020	1.3904	8.8045	9.0311	0.0373	3.5575	0.2566	3.8141	0.9233	0.2541	1.1773	0.0000	3,804.895 9	3,804.895 9	0.1967	0.0000	3,809.813 3
Maximum	12.4203	135.7613	78.7517	0.1965	61.9276	5.8870	67.8146	28.9237	5.4398	34.3635	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.4203	135.7613	78.7517	0.1965	27.9385	5.8870	33.8255	12.2730	5.4398	17.7128	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45
2020	1.3904	8.8045	9.0311	0.0373	3.5575	0.2566	3.8141	0.9233	0.2541	1.1773	0.0000	3,804.895 9	3,804.895 9	0.1967	0.0000	3,809.813 3
Maximum	12.4203	135.7613	78.7517	0.1965	27.9385	5.8870	33.8255	12.2730	5.4398	17.7128	0.0000	19,887.34 17	19,887.34 17	4.1157	0.0000	19,990.23 45

	ROG	NOx	CO	SO2	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	51.90	0.00	47.45	55.79	0.00	46.85	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Construction Unmitigated - 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	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.2926	0.0629	0.1678	5.9000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		63.5308	63.5308	3.1200e-003	1.2000e-004	63.6445

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.2926	0.0629	0.1678	5.9000e-004	0.0503	8.9000e-004	0.0511	0.0134	8.6000e-004	0.0143		63.5308	63.5308	3.1200e-003	1.2000e-004	63.6445

Boulder Brush Construction Unmitigated - 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	Boulder Clearing and Grading	Grading	9/21/2019	10/26/2019	5	25	
2	Boulder Construction Access Roads	Grading	10/13/2019	12/21/2019	5	50	
3	Boulder Foundation Construction and Tower Erection	Building Construction	11/3/2019	12/28/2019	5	40	
4	Boulder Stringing and Pulling	Building Construction	12/8/2019	2/2/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Boulder Brush Construction Unmitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Boulder Clearing and Grading	Graders	2	7.00	187	0.41
Boulder Clearing and Grading	Rubber Tired Dozers	4	8.00	247	0.40
Boulder Clearing and Grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Boulder Construction Access Roads	Pavers	1	8.00	130	0.42
Boulder Construction Access Roads	Paving Equipment	4	8.00	132	0.36
Boulder Construction Access Roads	Pumps	1	7.00	84	0.74
Boulder Construction Access Roads	Rollers	4	8.00	80	0.38
Boulder Construction Access Roads	Scrapers	2	8.00	367	0.48
Boulder Foundation Construction and Tower Erection	Air Compressors	1	7.00	78	0.48
Boulder Foundation Construction and Tower Erection	Forklifts	1	8.00	89	0.20
Boulder Foundation Construction and Tower Erection	Generator Sets	2	6.00	84	0.74
Boulder Foundation Construction and Tower Erection	Pumps	1	7.00	84	0.74
Boulder Foundation Construction and Tower Erection	Welders	1	7.00	46	0.45
Boulder Stringing and Pulling	Air Compressors	1	7.00	78	0.48
Boulder Stringing and Pulling	Welders	1	7.00	46	0.45

Trips and VMT

Boulder Brush Construction Unmitigated - San Diego County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Boulder Clearing and Grading	10	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Clearing and Grading	10	48.00	20.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Construction Access Roads	12	48.00	10.00	32.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Foundation Construction and Towing	6	96.00	10.00	30.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	0.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Boulder Stringing and Pulling	2	72.00	10.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Boulder Clearing and Grading - 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					
Fugitive Dust					55.7198	0.0000	55.7198	27.2963	0.0000	27.2963			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090		5,608.9579	5,608.9579	1.7746		5,653.3233
Total	6.2050	67.9928	28.4123	0.0566	55.7198	3.2706	58.9904	27.2963	3.0090	30.3053		5,608.9579	5,608.9579	1.7746		5,653.3233

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.2 Boulder Clearing and Grading - 2019**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	0.5071	10.9160	2.9347	0.0353	1.8072	0.1278	1.9350	0.4879	0.1223	0.6102		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.9334	11.2353	5.8204	0.0443	3.5263	0.1340	3.6602	0.9280	0.1279	1.0559		4,676.9891	4,676.9891	0.2289		4,682.7124

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7307	0.0000	21.7307	10.6456	0.0000	10.6456			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233
Total	6.2050	67.9928	28.4123	0.0566	21.7307	3.2706	25.0013	10.6456	3.0090	13.6545	0.0000	5,608.9579	5,608.9579	1.7746		5,653.3233

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.2 Boulder Clearing and Grading - 2019**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	0.5071	10.9160	2.9347	0.0353	1.8072	0.1278	1.9350	0.4879	0.1223	0.6102		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.9334	11.2353	5.8204	0.0443	3.5263	0.1340	3.6602	0.9280	0.1279	1.0559		4,676.9891	4,676.9891	0.2289		4,682.7124

3.3 Boulder Construction Access Roads - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5877	50.2966	40.0560	0.0675		2.4103	2.4103		2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909
Total	4.5877	50.2966	40.0560	0.0675	0.0000	2.4103	2.4103	0.0000	2.2341	2.2341		6,662.2946	6,662.2946	1.9719		6,711.5909

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.3 Boulder Construction Access Roads - 2019**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	0.0143	0.4594	0.1099	1.3800e-003	0.0589	2.0900e-003	0.0610	0.0154	2.0000e-003	0.0174		150.5799	150.5799	0.0122		150.8835
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.6942	6.2367	4.4629	0.0281	2.6816	0.0721	2.7537	0.6994	0.0688	0.7682		2,939.1001	2,939.1001	0.1403		2,942.6079

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	4.5877	50.2966	40.0560	0.0675		2.4103	2.4103		2.2341	2.2341	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909
Total	4.5877	50.2966	40.0560	0.0675	0.0000	2.4103	2.4103	0.0000	2.2341	2.2341	0.0000	6,662.2946	6,662.2946	1.9719		6,711.5909

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.3 Boulder Construction Access Roads - 2019**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	0.0143	0.4594	0.1099	1.3800e-003	0.0589	2.0900e-003	0.0610	0.0154	2.0000e-003	0.0174		150.5799	150.5799	0.0122		150.8835
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.4263	0.3193	2.8857	9.0300e-003	1.7190	6.1500e-003	1.7252	0.4401	5.6700e-003	0.4457		900.0513	900.0513	0.0274		900.7363
Total	0.6942	6.2367	4.4629	0.0281	2.6816	0.0721	2.7537	0.6994	0.0688	0.7682		2,939.1001	2,939.1001	0.1403		2,942.6079

3.4 Boulder Foundation Construction and Tower Erection - 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	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669
Total	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862		2,140.9266	2,140.9266	0.2016		2,145.9669

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.4 Boulder Foundation Construction and Tower Erection - 2019**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	0.0168	0.5384	0.1287	1.6200e-003	0.0690	2.4500e-003	0.0715	0.0181	2.3500e-003	0.0204		176.4608	176.4608	0.0142		176.8167
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.8526	0.6385	5.7714	0.0181	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1230	6.6349	7.3675	0.0373	4.4107	0.0787	4.4894	1.1421	0.0748	1.2170		3,865.0322	3,865.0322	0.1698		3,869.2773

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	1.8854	14.0123	13.8169	0.0229		0.8950	0.8950		0.8862	0.8862	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.4 Boulder Foundation Construction and Tower Erection - 2019**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	0.0168	0.5384	0.1287	1.6200e-003	0.0690	2.4500e-003	0.0715	0.0181	2.3500e-003	0.0204		176.4608	176.4608	0.0142		176.8167
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.8526	0.6385	5.7714	0.0181	3.4381	0.0123	3.4504	0.8801	0.0113	0.8915		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1230	6.6349	7.3675	0.0373	4.4107	0.0787	4.4894	1.1421	0.0748	1.2170		3,865.0322	3,865.0322	0.1698		3,869.2773

3.5 Boulder Stringing and Pulling - 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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374		509.8991	509.8991	0.0581		511.3511

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 2019**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	0.0112	0.3589	0.0858	1.0800e-003	0.0997	1.6400e-003	0.1013	0.0252	1.5700e-003	0.0268		117.6405	117.6405	9.4900e-003		117.8778
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.6395	0.4789	4.3286	0.0136	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,350.0769	1,350.0769	0.0411		1,351.1044
Total	0.9042	6.2958	5.8817	0.0323	3.5818	0.0748	3.6566	0.9293	0.0712	1.0005		3,356.1863	3,356.1863	0.1514		3,359.9703

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	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.6479	3.5625	3.7295	5.7000e-003		0.2374	0.2374		0.2374	0.2374	0.0000	509.8991	509.8991	0.0581		511.3511

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 2019**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	0.0112	0.3589	0.0858	1.0800e-003	0.0997	1.6400e-003	0.1013	0.0252	1.5700e-003	0.0268		117.6405	117.6405	9.4900e-003		117.8778
Vendor	0.2536	5.4580	1.4673	0.0176	0.9036	0.0639	0.9675	0.2440	0.0611	0.3051		1,888.4689	1,888.4689	0.1008		1,890.9881
Worker	0.6395	0.4789	4.3286	0.0136	2.5786	9.2300e-003	2.5878	0.6601	8.5100e-003	0.6686		1,350.0769	1,350.0769	0.0411		1,351.1044
Total	0.9042	6.2958	5.8817	0.0323	3.5818	0.0748	3.6566	0.9293	0.0712	1.0005		3,356.1863	3,356.1863	0.1514		3,359.9703

3.5 Boulder Stringing and Pulling - 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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055		509.8991	509.8991	0.0523		511.2055

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0102	0.3294	0.0844	1.0600e-003	0.0753	1.2900e-003	0.0766	0.0192	1.2400e-003	0.0205		116.2093	116.2093	9.4700e-003		116.4461
Vendor	0.1981	4.7032	1.3028	0.0175	0.9036	0.0408	0.9444	0.2440	0.0390	0.2830		1,871.3891	1,871.3891	0.0978		1,873.8339
Worker	0.6002	0.4326	3.9611	0.0131	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.8085	5.4652	5.3483	0.0316	3.5575	0.0511	3.6086	0.9233	0.0486	0.9719		3,294.9968	3,294.9968	0.1444		3,298.6078

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	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.5819	3.3394	3.6828	5.7000e-003		0.2055	0.2055		0.2055	0.2055	0.0000	509.8991	509.8991	0.0523		511.2055

Boulder Brush Construction Unmitigated - San Diego County, Winter

3.5 Boulder Stringing and Pulling - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0102	0.3294	0.0844	1.0600e-003	0.0753	1.2900e-003	0.0766	0.0192	1.2400e-003	0.0205		116.2093	116.2093	9.4700e-003		116.4461
Vendor	0.1981	4.7032	1.3028	0.0175	0.9036	0.0408	0.9444	0.2440	0.0390	0.2830		1,871.3891	1,871.3891	0.0978		1,873.8339
Worker	0.6002	0.4326	3.9611	0.0131	2.5786	9.0800e-003	2.5876	0.6601	8.3700e-003	0.6685		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.8085	5.4652	5.3483	0.0316	3.5575	0.0511	3.6086	0.9233	0.0486	0.9719		3,294.9968	3,294.9968	0.1444		3,298.6078

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

Boulder Brush Construction Unmitigated - 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	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Unmitigated	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Construction Unmitigated - San Diego County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Boulder Brush Construction Unmitigated - 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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Boulder Brush Construction Unmitigated - San Diego County, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.2792	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

Boulder Brush Construction Unmitigated - San Diego County, Winter

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

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

Campo Construction Mitigated - San Diego County, Annual

Campo Construction Mitigated

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	43.00	Acre	43.00	1,873,080.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Construction Mitigated - San Diego County, Annual

Project Characteristics - Campo Construction Unmitigated. 2016 RPS for SDG&E. Minus Boulder Brush

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data from client

Off-road Equipment - Data provided by applicant

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by applicant.

Land Use Change - Data provided by bio report.

Construction Off-road Equipment Mitigation - M-AQ-1 and M-AQ-2

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	112385	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Campo Construction Mitigated - San Diego County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	55.00	40.00
tblConstructionPhase	NumDays	30.00	110.00

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tblGrading	AcresOfGrading	279.00	745.75
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	PhaseName		Clearing and Grading
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	60.00

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tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	43.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
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tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	8.00

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tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
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tblTripsAndVMT	WorkerTripLength	16.80	25.20
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tblTripsAndVMT	WorkerTripLength	16.80	25.20
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tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	35.00	72.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.3023	14.0749	7.3235	0.0217	3.8270	0.5754	4.4024	1.7827	0.5386	2.3213	0.0000	1,994.896 2	1,994.896 2	0.3136	0.0000	2,002.736 4
2020	2.1020	18.1893	13.9286	0.0368	3.0262	0.8135	3.8396	1.3490	0.7704	2.1194	0.0000	3,317.0115	3,317.0115	0.4474	0.0000	3,328.195 5
Maximum	2.1020	18.1893	13.9286	0.0368	3.8270	0.8135	4.4024	1.7827	0.7704	2.3213	0.0000	3,317.011 5	3,317.011 5	0.4474	0.0000	3,328.195 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3697	3.3344	7.0899	0.0217	1.8133	0.0619	1.8753	0.7824	0.0607	0.8431	0.0000	1,994.894 9	1,994.894 9	0.3136	0.0000	2,002.735 2
2020	0.7812	4.5593	14.4220	0.0368	1.8626	0.0818	1.9444	0.7094	0.0807	0.7902	0.0000	3,317.009 5	3,317.009 5	0.4474	0.0000	3,328.193 4
Maximum	0.7812	4.5593	14.4220	0.0368	1.8626	0.0818	1.9444	0.7824	0.0807	0.8431	0.0000	3,317.009 5	3,317.009 5	0.4474	0.0000	3,328.193 4

	ROG	NOx	CO	SO2	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	66.19	75.53	-1.22	0.00	46.36	89.65	53.66	52.37	89.19	63.22	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2019	11-30-2019	12.2736	3.0882
2	12-1-2019	2-29-2020	12.7934	3.1851
3	3-1-2020	5-31-2020	8.5871	2.2013
4	6-1-2020	8-31-2020	1.9763	0.5378
5	9-1-2020	9-30-2020	0.0293	0.0096
		Highest	12.7934	3.1851

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.1740	9.1900e-003	0.0243	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9076	12.2327	0.0230	2.5000e-004	12.8808

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.1740	9.1900e-003	0.0243	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9076	12.2327	0.0230	2.5000e-004	12.8808

[illegible]

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2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 12,557.65 76
Total	- 12,557.65 76

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction Access Roads	Grading	9/29/2019	3/28/2020	5	130	
3	Substation and Switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
4	Wind Turbine Foundation Construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Wind Turbine Erection	Building Construction	12/22/2019	3/28/2020	5	70	
6	Construction of Underground Electrical Systems	Site Preparation	1/19/2020	6/20/2020	5	110	
7	O&M Building	Building Construction	2/2/2020	9/5/2020	5	155	
8	Paving	Paving	3/1/2020	4/25/2020	5	40	
9	Met Towers	Building Construction	6/7/2020	7/11/2020	5	25	

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Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 43****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
Construction of Underground Electrical Systems	Rollers	1	4.00	80	0.38
Construction of Underground Electrical Systems	Rubber Tired Dozers	2	7.00	247	0.40
Construction of Underground Electrical Systems	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of Underground Electrical Systems	Trenchers	3	8.00	78	0.50
Clearing and Grading	Graders	3	8.00	187	0.41
Clearing and Grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and Grading	Scrapers	3	8.00	367	0.48
Construction Access Roads	Rubber Tired Dozers	7	8.00	247	0.40
Construction Access Roads	Scrapers	3	8.00	367	0.48
Substation and Switchyard	Air Compressors	1	8.00	78	0.48
Substation and Switchyard	Cranes	2	7.00	231	0.29
Substation and Switchyard	Generator Sets	6	8.00	84	0.74
Substation and Switchyard	Pumps	3	8.00	84	0.74
Substation and Switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Substation and Switchyard	Welders	2	8.00	46	0.45
Wind Turbine Foundation Construction	Air Compressors	3	8.00	78	0.48
Wind Turbine Foundation Construction	Generator Sets	3	8.00	84	0.74
Wind Turbine Foundation Construction	Pumps	1	8.00	84	0.74

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O&M Building	Cranes	1	7.00	231	0.29
O&M Building	Generator Sets	1	8.00	84	0.74
O&M Building	Tractors/Loaders/Backhoes	1	7.00	97	0.37
O&M Building	Welders	1	8.00	46	0.45
Wind Turbine Erection	Air Compressors	2	8.00	78	0.48
Wind Turbine Erection	Cranes	19	7.00	231	0.29
Wind Turbine Erection	Generator Sets	3	8.00	84	0.74
Wind Turbine Erection	Pumps	2	8.00	84	0.74
Wind Turbine Erection	Welders	7	8.00	46	0.45
Met Towers	Cranes	1	7.00	231	0.29
Met Towers	Generator Sets	2	8.00	84	0.74
Met Towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Met Towers	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	8	8.00	80	0.38
Clearing and Grading	Crushing/Proc. Equipment	1	8.00	85	0.78

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Construction of Underground Electrical	10	240.00	12.00	368.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and Grading	14	72.00	108.00	734.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction Access Roads	10	120.00	0.00	22.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Substation and Switchyard	17	144.00	8.00	415.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Foundation Construction	7	168.00	20.00	3,046.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	120.00	4.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Erection	33	144.00	0.00	720.00	25.20	57.00	80.00	LD_Mix	HDT_Mix	HHDT
Met Towers	5	24.00	4.00	43.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving	13	66.00	0.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Clearing and Grading - 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	tons/yr										MT/yr					
Fugitive Dust					1.8889	0.0000	1.8889	0.8636	0.0000	0.8636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4445	4.9358	2.1186	4.3600e-003		0.2214	0.2214		0.2044	0.2044	0.0000	390.9139	390.9139	0.1193	0.0000	393.8959
Total	0.4445	4.9358	2.1186	4.3600e-003	1.8889	0.2214	2.1104	0.8636	0.2044	1.0681	0.0000	390.9139	390.9139	0.1193	0.0000	393.8959

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.1600e-003	0.2650	0.0621	7.9000e-004	0.0188	1.2000e-003	0.0200	5.1700e-003	1.1400e-003	6.3100e-003	0.0000	78.6149	78.6149	6.2700e-003	0.0000	78.7716
Vendor	0.0840	1.8370	0.4866	5.9200e-003	0.1729	0.0214	0.1943	0.0499	0.0204	0.0703	0.0000	574.9002	574.9002	0.0304	0.0000	575.6596
Worker	0.0173	0.0146	0.1355	4.2000e-004	0.0417	2.9000e-004	0.0420	0.0111	2.6000e-004	0.0114	0.0000	38.3515	38.3515	1.1700e-003	0.0000	38.3807
Total	0.1095	2.1166	0.6842	7.1300e-003	0.2335	0.0229	0.2563	0.0661	0.0218	0.0880	0.0000	691.8666	691.8666	0.0378	0.0000	692.8119

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3.2 Clearing and Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.7367	0.0000	0.7367	0.3368	0.0000	0.3368	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0696	0.2202	1.9986	4.3600e-003		0.0155	0.0155		0.0155	0.0155	0.0000	390.9134	390.9134	0.1193	0.0000	393.8954
Total	0.0696	0.2202	1.9986	4.3600e-003	0.7367	0.0155	0.7522	0.3368	0.0155	0.3523	0.0000	390.9134	390.9134	0.1193	0.0000	393.8954

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	8.1600e-003	0.2650	0.0621	7.9000e-004	0.0188	1.2000e-003	0.0200	5.1700e-003	1.1400e-003	6.3100e-003	0.0000	78.6149	78.6149	6.2700e-003	0.0000	78.7716
Vendor	0.0840	1.8370	0.4866	5.9200e-003	0.1729	0.0214	0.1943	0.0499	0.0204	0.0703	0.0000	574.9002	574.9002	0.0304	0.0000	575.6596
Worker	0.0173	0.0146	0.1355	4.2000e-004	0.0417	2.9000e-004	0.0420	0.0111	2.6000e-004	0.0114	0.0000	38.3515	38.3515	1.1700e-003	0.0000	38.3807
Total	0.1095	2.1166	0.6842	7.1300e-003	0.2335	0.0229	0.2563	0.0661	0.0218	0.0880	0.0000	691.8666	691.8666	0.0378	0.0000	692.8119

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3.3 Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					1.4122	0.0000	1.4122	0.7763	0.0000	0.7763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3731	4.1293	1.8148	3.5200e-003		0.1889	0.1889		0.1738	0.1738	0.0000	316.5933	316.5933	0.1002	0.0000	319.0974
Total	0.3731	4.1293	1.8148	3.5200e-003	1.4122	0.1889	1.6011	0.7763	0.1738	0.9501	0.0000	316.5933	316.5933	0.1002	0.0000	319.0974

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	4.0900e-003	9.6000e-004	1.0000e-005	5.0000e-004	2.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	1.2144	1.2144	1.0000e-004	0.0000	1.2168
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	0.0312	0.0263	0.2440	7.6000e-004	0.0752	5.2000e-004	0.0757	0.0200	4.7000e-004	0.0204	0.0000	69.0739	69.0739	2.1000e-003	0.0000	69.1265
Total	0.0313	0.0304	0.2450	7.7000e-004	0.0757	5.4000e-004	0.0762	0.0201	4.9000e-004	0.0206	0.0000	70.2883	70.2883	2.2000e-003	0.0000	70.3433

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3.3 Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					0.5508	0.0000	0.5508	0.3027	0.0000	0.3027	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0433	0.1874	1.5859	3.5200e-003		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003	0.0000	316.5929	316.5929	0.1002	0.0000	319.0971
Total	0.0433	0.1874	1.5859	3.5200e-003	0.5508	5.7700e-003	0.5565	0.3027	5.7700e-003	0.3085	0.0000	316.5929	316.5929	0.1002	0.0000	319.0971

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	1.3000e-004	4.0900e-003	9.6000e-004	1.0000e-005	5.0000e-004	2.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	1.2144	1.2144	1.0000e-004	0.0000	1.2168
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	0.0312	0.0263	0.2440	7.6000e-004	0.0752	5.2000e-004	0.0757	0.0200	4.7000e-004	0.0204	0.0000	69.0739	69.0739	2.1000e-003	0.0000	69.1265
Total	0.0313	0.0304	0.2450	7.7000e-004	0.0757	5.4000e-004	0.0762	0.0201	4.9000e-004	0.0206	0.0000	70.2883	70.2883	2.2000e-003	0.0000	70.3433

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3.3 Construction Access Roads - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3279	0.0000	1.3279	0.7299	0.0000	0.7299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3319	3.6093	1.6159	3.3100e-003		0.1657	0.1657		0.1524	0.1524	0.0000	291.2625	291.2625	0.0942	0.0000	293.6175
Total	0.3319	3.6093	1.6159	3.3100e-003	1.3279	0.1657	1.4936	0.7299	0.1524	0.8823	0.0000	291.2625	291.2625	0.0942	0.0000	293.6175

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.5300e-003	8.9000e-004	1.0000e-005	4.9000e-004	1.0000e-005	5.1000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.1281	1.1281	9.0000e-005	0.0000	1.1304
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	0.0275	0.0224	0.2101	7.0000e-004	0.0707	4.8000e-004	0.0712	0.0188	4.4000e-004	0.0192	0.0000	62.8970	62.8970	1.7900e-003	0.0000	62.9418
Total	0.0276	0.0259	0.2110	7.1000e-004	0.0712	4.9000e-004	0.0717	0.0189	4.5000e-004	0.0194	0.0000	64.0251	64.0251	1.8800e-003	0.0000	64.0722

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3.3 Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					0.5179	0.0000	0.5179	0.2847	0.0000	0.2847	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0407	0.1762	1.4912	3.3100e-003		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003	0.0000	291.2622	291.2622	0.0942	0.0000	293.6172
Total	0.0407	0.1762	1.4912	3.3100e-003	0.5179	5.4200e-003	0.5233	0.2847	5.4200e-003	0.2901	0.0000	291.2622	291.2622	0.0942	0.0000	293.6172

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	1.1000e-004	3.5300e-003	8.9000e-004	1.0000e-005	4.9000e-004	1.0000e-005	5.1000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.1281	1.1281	9.0000e-005	0.0000	1.1304
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	0.0275	0.0224	0.2101	7.0000e-004	0.0707	4.8000e-004	0.0712	0.0188	4.4000e-004	0.0192	0.0000	62.8970	62.8970	1.7900e-003	0.0000	62.9418
Total	0.0276	0.0259	0.2110	7.1000e-004	0.0712	4.9000e-004	0.0717	0.0189	4.5000e-004	0.0194	0.0000	64.0251	64.0251	1.8800e-003	0.0000	64.0722

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3.4 Substation and Switchyard - 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	tons/yr										MT/yr					
Off-Road	0.2242	1.8932	1.6686	2.9000e-003		0.1104	0.1104		0.1081	0.1081	0.0000	249.3388	249.3388	0.0314	0.0000	250.1248
Total	0.2242	1.8932	1.6686	2.9000e-003		0.1104	0.1104		0.1081	0.1081	0.0000	249.3388	249.3388	0.0314	0.0000	250.1248

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5500e-003	0.0502	0.0118	1.5000e-004	8.8900e-003	2.3000e-004	9.1100e-003	2.2900e-003	2.2000e-004	2.5000e-003	0.0000	14.8903	14.8903	1.1900e-003	0.0000	14.9199
Vendor	6.7200e-003	0.1471	0.0390	4.7000e-004	0.0138	1.7100e-003	0.0156	3.9900e-003	1.6400e-003	5.6300e-003	0.0000	46.0195	46.0195	2.4300e-003	0.0000	46.0803
Worker	0.0375	0.0316	0.2928	9.2000e-004	0.0902	6.2000e-004	0.0908	0.0240	5.7000e-004	0.0245	0.0000	82.8887	82.8887	2.5200e-003	0.0000	82.9518
Total	0.0457	0.2288	0.3436	1.5400e-003	0.1129	2.5600e-003	0.1155	0.0302	2.4300e-003	0.0327	0.0000	143.7984	143.7984	6.1400e-003	0.0000	143.9520

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3.4 Substation and Switchyard - 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	tons/yr										MT/yr					
Off-Road	0.0422	0.2677	1.7639	2.9000e-003		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	249.3385	249.3385	0.0314	0.0000	250.1245
Total	0.0422	0.2677	1.7639	2.9000e-003		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	249.3385	249.3385	0.0314	0.0000	250.1245

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	1.5500e-003	0.0502	0.0118	1.5000e-004	8.8900e-003	2.3000e-004	9.1100e-003	2.2900e-003	2.2000e-004	2.5000e-003	0.0000	14.8903	14.8903	1.1900e-003	0.0000	14.9199
Vendor	6.7200e-003	0.1471	0.0390	4.7000e-004	0.0138	1.7100e-003	0.0156	3.9900e-003	1.6400e-003	5.6300e-003	0.0000	46.0195	46.0195	2.4300e-003	0.0000	46.0803
Worker	0.0375	0.0316	0.2928	9.2000e-004	0.0902	6.2000e-004	0.0908	0.0240	5.7000e-004	0.0245	0.0000	82.8887	82.8887	2.5200e-003	0.0000	82.9518
Total	0.0457	0.2288	0.3436	1.5400e-003	0.1129	2.5600e-003	0.1155	0.0302	2.4300e-003	0.0327	0.0000	143.7984	143.7984	6.1400e-003	0.0000	143.9520

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3.4 Substation and Switchyard - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4000	3.4452	3.2707	5.7500e-003		0.1901	0.1901		0.1862	0.1862	0.0000	492.5721	492.5721	0.0594	0.0000	494.0567
Total	0.4000	3.4452	3.2707	5.7500e-003		0.1901	0.1901		0.1862	0.1862	0.0000	492.5721	492.5721	0.0594	0.0000	494.0567

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8100e-003	0.0915	0.0230	2.9000e-004	9.7600e-003	3.5000e-004	0.0101	2.6000e-003	3.4000e-004	2.9400e-003	0.0000	29.2009	29.2009	2.3500e-003	0.0000	29.2597
Vendor	0.0104	0.2516	0.0686	9.3000e-004	0.0275	2.1700e-003	0.0296	7.9200e-003	2.0700e-003	9.9900e-003	0.0000	90.5295	90.5295	4.6900e-003	0.0000	90.6467
Worker	0.0697	0.0566	0.5323	1.7600e-003	0.1791	1.2100e-003	0.1803	0.0476	1.1100e-003	0.0487	0.0000	159.3392	159.3392	4.5400e-003	0.0000	159.4526
Total	0.0829	0.3997	0.6239	2.9800e-003	0.2163	3.7300e-003	0.2200	0.0581	3.5200e-003	0.0616	0.0000	279.0696	279.0696	0.0116	0.0000	279.3589

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3.4 Substation and Switchyard - 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	tons/yr										MT/yr					
Off-Road	0.0816	0.5179	3.5005	5.7500e-003		0.0175	0.0175		0.0175	0.0175	0.0000	492.5716	492.5716	0.0594	0.0000	494.0561
Total	0.0816	0.5179	3.5005	5.7500e-003		0.0175	0.0175		0.0175	0.0175	0.0000	492.5716	492.5716	0.0594	0.0000	494.0561

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	2.8100e-003	0.0915	0.0230	2.9000e-004	9.7600e-003	3.5000e-004	0.0101	2.6000e-003	3.4000e-004	2.9400e-003	0.0000	29.2009	29.2009	2.3500e-003	0.0000	29.2597
Vendor	0.0104	0.2516	0.0686	9.3000e-004	0.0275	2.1700e-003	0.0296	7.9200e-003	2.0700e-003	9.9900e-003	0.0000	90.5295	90.5295	4.6900e-003	0.0000	90.6467
Worker	0.0697	0.0566	0.5323	1.7600e-003	0.1791	1.2100e-003	0.1803	0.0476	1.1100e-003	0.0487	0.0000	159.3392	159.3392	4.5400e-003	0.0000	159.4526
Total	0.0829	0.3997	0.6239	2.9800e-003	0.2163	3.7300e-003	0.2200	0.0581	3.5200e-003	0.0616	0.0000	279.0696	279.0696	0.0116	0.0000	279.3589

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3.5 Wind Turbine Foundation Construction - 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	tons/yr										MT/yr					
Off-Road	0.0100	0.0788	0.0781	1.3000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077
Total	0.0100	0.0788	0.0781	1.3000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3900e-003	0.1100	0.0258	3.3000e-004	0.0607	5.0000e-004	0.0612	0.0151	4.7000e-004	0.0156	0.0000	32.6241	32.6241	2.6000e-003	0.0000	32.6892
Vendor	1.7600e-003	0.0384	0.0102	1.2000e-004	3.6200e-003	4.5000e-004	4.0600e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.0200	12.0200	6.4000e-004	0.0000	12.0359
Worker	4.5600e-003	3.8500e-003	0.0357	1.1000e-004	0.0110	8.0000e-005	0.0111	2.9200e-003	7.0000e-005	2.9900e-003	0.0000	10.1033	10.1033	3.1000e-004	0.0000	10.1110
Total	9.7100e-003	0.1522	0.0716	5.6000e-004	0.0753	1.0300e-003	0.0763	0.0191	9.7000e-004	0.0201	0.0000	54.7475	54.7475	3.5500e-003	0.0000	54.8361

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3.5 Wind Turbine Foundation Construction - 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	tons/yr										MT/yr					
Off-Road	4.6500e-003	0.0297	0.0826	1.3000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077
Total	4.6500e-003	0.0297	0.0826	1.3000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077

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	3.3900e-003	0.1100	0.0258	3.3000e-004	0.0607	5.0000e-004	0.0612	0.0151	4.7000e-004	0.0156	0.0000	32.6241	32.6241	2.6000e-003	0.0000	32.6892
Vendor	1.7600e-003	0.0384	0.0102	1.2000e-004	3.6200e-003	4.5000e-004	4.0600e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.0200	12.0200	6.4000e-004	0.0000	12.0359
Worker	4.5600e-003	3.8500e-003	0.0357	1.1000e-004	0.0110	8.0000e-005	0.0111	2.9200e-003	7.0000e-005	2.9900e-003	0.0000	10.1033	10.1033	3.1000e-004	0.0000	10.1110
Total	9.7100e-003	0.1522	0.0716	5.6000e-004	0.0753	1.0300e-003	0.0763	0.0191	9.7000e-004	0.0201	0.0000	54.7475	54.7475	3.5500e-003	0.0000	54.8361

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3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0816	0.6521	0.6995	1.2000e-003		0.0391	0.0391		0.0391	0.0391	0.0000	103.3871	103.3871	6.5600e-003	0.0000	103.5512
Total	0.0816	0.6521	0.6995	1.2000e-003		0.0391	0.0391		0.0391	0.0391	0.0000	103.3871	103.3871	6.5600e-003	0.0000	103.5512

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0279	0.9085	0.2284	2.9200e-003	0.0762	3.5300e-003	0.0797	0.0208	3.3700e-003	0.0241	0.0000	290.0670	290.0670	0.0234	0.0000	290.6514
Vendor	0.0123	0.2979	0.0813	1.1000e-003	0.0325	2.5600e-003	0.0351	9.3800e-003	2.4500e-003	0.0118	0.0000	107.2060	107.2060	5.5500e-003	0.0000	107.3447
Worker	0.0385	0.0313	0.2941	9.7000e-004	0.0990	6.7000e-004	0.0996	0.0263	6.2000e-004	0.0269	0.0000	88.0559	88.0559	2.5100e-003	0.0000	88.1185
Total	0.0787	1.2377	0.6038	4.9900e-003	0.2077	6.7600e-003	0.2144	0.0564	6.4400e-003	0.0629	0.0000	485.3289	485.3289	0.0314	0.0000	486.1147

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3.5 Wind Turbine Foundation Construction - 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	tons/yr										MT/yr					
Off-Road	0.0388	0.2481	0.7419	1.2000e-003		0.0151	0.0151		0.0151	0.0151	0.0000	103.3870	103.3870	6.5600e-003	0.0000	103.5511
Total	0.0388	0.2481	0.7419	1.2000e-003		0.0151	0.0151		0.0151	0.0151	0.0000	103.3870	103.3870	6.5600e-003	0.0000	103.5511

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	0.0279	0.9085	0.2284	2.9200e-003	0.0762	3.5300e-003	0.0797	0.0208	3.3700e-003	0.0241	0.0000	290.0670	290.0670	0.0234	0.0000	290.6514
Vendor	0.0123	0.2979	0.0813	1.1000e-003	0.0325	2.5600e-003	0.0351	9.3800e-003	2.4500e-003	0.0118	0.0000	107.2060	107.2060	5.5500e-003	0.0000	107.3447
Worker	0.0385	0.0313	0.2941	9.7000e-004	0.0990	6.7000e-004	0.0996	0.0263	6.2000e-004	0.0269	0.0000	88.0559	88.0559	2.5100e-003	0.0000	88.1185
Total	0.0787	1.2377	0.6038	4.9900e-003	0.2077	6.7600e-003	0.2144	0.0564	6.4400e-003	0.0629	0.0000	485.3289	485.3289	0.0314	0.0000	486.1147

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3.6 Wind Turbine Erection - 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	tons/yr										MT/yr					
Off-Road	0.0492	0.4730	0.2605	5.4000e-004		0.0225	0.0225		0.0213	0.0213	0.0000	47.0380	47.0380	0.0112	0.0000	47.3168
Total	0.0492	0.4730	0.2605	5.4000e-004		0.0225	0.0225		0.0213	0.0213	0.0000	47.0380	47.0380	0.0112	0.0000	47.3168

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0335	7.9400e-003	1.0000e-004	0.0191	1.6000e-004	0.0193	4.7700e-003	1.5000e-004	4.9200e-003	0.0000	10.1641	10.1641	8.0000e-004	0.0000	10.1839
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9100e-003	3.3000e-003	0.0306	1.0000e-004	9.4200e-003	6.0000e-005	9.4900e-003	2.5000e-003	6.0000e-005	2.5600e-003	0.0000	8.6600	8.6600	2.6000e-004	0.0000	8.6666
Total	4.9500e-003	0.0368	0.0385	2.0000e-004	0.0286	2.2000e-004	0.0288	7.2700e-003	2.1000e-004	7.4800e-003	0.0000	18.8241	18.8241	1.0600e-003	0.0000	18.8505

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3.6 Wind Turbine Erection - 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	tons/yr										MT/yr					
Off-Road	8.8400e-003	0.0646	0.2761	5.4000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	47.0379	47.0379	0.0112	0.0000	47.3167
Total	8.8400e-003	0.0646	0.2761	5.4000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	47.0379	47.0379	0.0112	0.0000	47.3167

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	1.0400e-003	0.0335	7.9400e-003	1.0000e-004	0.0191	1.6000e-004	0.0193	4.7700e-003	1.5000e-004	4.9200e-003	0.0000	10.1641	10.1641	8.0000e-004	0.0000	10.1839
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9100e-003	3.3000e-003	0.0306	1.0000e-004	9.4200e-003	6.0000e-005	9.4900e-003	2.5000e-003	6.0000e-005	2.5600e-003	0.0000	8.6600	8.6600	2.6000e-004	0.0000	8.6666
Total	4.9500e-003	0.0368	0.0385	2.0000e-004	0.0286	2.2000e-004	0.0288	7.2700e-003	2.1000e-004	7.4800e-003	0.0000	18.8241	18.8241	1.0600e-003	0.0000	18.8505

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3.6 Wind Turbine Erection - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3976	3.8625	2.2385	4.8700e-003		0.1765	0.1765		0.1672	0.1672	0.0000	417.4407	417.4407	0.0988	0.0000	419.9105
Total	0.3976	3.8625	2.2385	4.8700e-003		0.1765	0.1765		0.1672	0.1672	0.0000	417.4407	417.4407	0.0988	0.0000	419.9105

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5900e-003	0.2760	0.0704	9.1000e-004	0.0240	1.1000e-003	0.0251	6.5400e-003	1.0600e-003	7.5900e-003	0.0000	90.3529	90.3529	7.1600e-003	0.0000	90.5320
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	0.0330	0.0268	0.2521	8.3000e-004	0.0848	5.7000e-004	0.0854	0.0225	5.3000e-004	0.0231	0.0000	75.4765	75.4765	2.1500e-003	0.0000	75.5302
Total	0.0416	0.3029	0.3225	1.7400e-003	0.1088	1.6700e-003	0.1105	0.0291	1.5900e-003	0.0307	0.0000	165.8293	165.8293	9.3100e-003	0.0000	166.0622

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3.6 Wind Turbine Erection - 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	tons/yr										MT/yr					
Off-Road	0.0775	0.5686	2.4840	4.8700e-003		0.0163	0.0163		0.0163	0.0163	0.0000	417.4402	417.4402	0.0988	0.0000	419.9100
Total	0.0775	0.5686	2.4840	4.8700e-003		0.0163	0.0163		0.0163	0.0163	0.0000	417.4402	417.4402	0.0988	0.0000	419.9100

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	8.5900e-003	0.2760	0.0704	9.1000e-004	0.0240	1.1000e-003	0.0251	6.5400e-003	1.0600e-003	7.5900e-003	0.0000	90.3529	90.3529	7.1600e-003	0.0000	90.5320
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	0.0330	0.0268	0.2521	8.3000e-004	0.0848	5.7000e-004	0.0854	0.0225	5.3000e-004	0.0231	0.0000	75.4765	75.4765	2.1500e-003	0.0000	75.5302
Total	0.0416	0.3029	0.3225	1.7400e-003	0.1088	1.6700e-003	0.1105	0.0291	1.5900e-003	0.0307	0.0000	165.8293	165.8293	9.3100e-003	0.0000	166.0622

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3.7 Construction of Underground Electrical Systems - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5796	0.0000	0.5796	0.3186	0.0000	0.3186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2250	2.2375	1.3863	2.1300e-003		0.1333	0.1333		0.1226	0.1226	0.0000	187.5256	187.5256	0.0607	0.0000	189.0419
Total	0.2250	2.2375	1.3863	2.1300e-003	0.5796	0.1333	0.7129	0.3186	0.1226	0.4412	0.0000	187.5256	187.5256	0.0607	0.0000	189.0419

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7400e-003	0.1220	0.0307	3.9000e-004	9.4400e-003	4.7000e-004	9.9100e-003	2.5900e-003	4.5000e-004	3.0400e-003	0.0000	38.9380	38.9380	3.1400e-003	0.0000	39.0165
Vendor	0.0129	0.3121	0.0852	1.1500e-003	0.0341	2.6900e-003	0.0368	9.8300e-003	2.5700e-003	0.0124	0.0000	112.3111	112.3111	5.8100e-003	0.0000	112.4564
Worker	0.0961	0.0781	0.7337	2.4300e-003	0.2468	1.6700e-003	0.2485	0.0656	1.5300e-003	0.0671	0.0000	219.6405	219.6405	6.2500e-003	0.0000	219.7968
Total	0.1127	0.5121	0.8495	3.9700e-003	0.2904	4.8300e-003	0.2952	0.0780	4.5500e-003	0.0825	0.0000	370.8895	370.8895	0.0152	0.0000	371.2696

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3.7 Construction of Underground Electrical Systems - 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	tons/yr										MT/yr					
Fugitive Dust					0.2261	0.0000	0.2261	0.1243	0.0000	0.1243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0261	0.1132	1.3587	2.1300e-003		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	187.5254	187.5254	0.0607	0.0000	189.0416
Total	0.0261	0.1132	1.3587	2.1300e-003	0.2261	3.4800e-003	0.2295	0.1243	3.4800e-003	0.1277	0.0000	187.5254	187.5254	0.0607	0.0000	189.0416

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	3.7400e-003	0.1220	0.0307	3.9000e-004	9.4400e-003	4.7000e-004	9.9100e-003	2.5900e-003	4.5000e-004	3.0400e-003	0.0000	38.9380	38.9380	3.1400e-003	0.0000	39.0165
Vendor	0.0129	0.3121	0.0852	1.1500e-003	0.0341	2.6900e-003	0.0368	9.8300e-003	2.5700e-003	0.0124	0.0000	112.3111	112.3111	5.8100e-003	0.0000	112.4564
Worker	0.0961	0.0781	0.7337	2.4300e-003	0.2468	1.6700e-003	0.2485	0.0656	1.5300e-003	0.0671	0.0000	219.6405	219.6405	6.2500e-003	0.0000	219.7968
Total	0.1127	0.5121	0.8495	3.9700e-003	0.2904	4.8300e-003	0.2952	0.0780	4.5500e-003	0.0825	0.0000	370.8895	370.8895	0.0152	0.0000	371.2696

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3.8 O&M Building - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.8997	0.7222	1.3100e-003		0.0460	0.0460		0.0441	0.0441	0.0000	111.2694	111.2694	0.0217	0.0000	111.8125
Total	0.1024	0.8997	0.7222	1.3100e-003		0.0460	0.0460		0.0441	0.0441	0.0000	111.2694	111.2694	0.0217	0.0000	111.8125

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.6300e-003	1.6700e-003	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	2.1162	2.1162	1.7000e-004	0.0000	2.1205
Vendor	6.0600e-003	0.1466	0.0400	5.4000e-004	0.0160	1.2600e-003	0.0173	4.6200e-003	1.2100e-003	5.8200e-003	0.0000	52.7522	52.7522	2.7300e-003	0.0000	52.8204
Worker	0.0677	0.0550	0.5169	1.7100e-003	0.1739	1.1700e-003	0.1751	0.0462	1.0800e-003	0.0473	0.0000	154.7467	154.7467	4.4100e-003	0.0000	154.8568
Total	0.0739	0.2082	0.5586	2.2700e-003	0.1904	2.4600e-003	0.1929	0.0510	2.3100e-003	0.0533	0.0000	209.6151	209.6151	7.3100e-003	0.0000	209.7977

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3.8 O&M Building - 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	tons/yr										MT/yr					
Off-Road	0.0159	0.1319	0.7655	1.3100e-003		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	111.2692	111.2692	0.0217	0.0000	111.8124
Total	0.0159	0.1319	0.7655	1.3100e-003		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	111.2692	111.2692	0.0217	0.0000	111.8124

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	2.0000e-004	6.6300e-003	1.6700e-003	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	2.1162	2.1162	1.7000e-004	0.0000	2.1205
Vendor	6.0600e-003	0.1466	0.0400	5.4000e-004	0.0160	1.2600e-003	0.0173	4.6200e-003	1.2100e-003	5.8200e-003	0.0000	52.7522	52.7522	2.7300e-003	0.0000	52.8204
Worker	0.0677	0.0550	0.5169	1.7100e-003	0.1739	1.1700e-003	0.1751	0.0462	1.0800e-003	0.0473	0.0000	154.7467	154.7467	4.4100e-003	0.0000	154.8568
Total	0.0739	0.2082	0.5586	2.2700e-003	0.1904	2.4600e-003	0.1929	0.0510	2.3100e-003	0.0533	0.0000	209.6151	209.6151	7.3100e-003	0.0000	209.7977

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3.9 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0552	0.5605	0.5637	8.4000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	73.7707	73.7707	0.0239	0.0000	74.3672
Paving	0.0563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1115	0.5605	0.5637	8.4000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	73.7707	73.7707	0.0239	0.0000	74.3672

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797
Total	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797

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3.9 Paving - 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	tons/yr										MT/yr					
Off-Road	0.0103	0.0447	0.6368	8.4000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	73.7707	73.7707	0.0239	0.0000	74.3671
Paving	0.0563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0667	0.0447	0.6368	8.4000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	73.7707	73.7707	0.0239	0.0000	74.3671

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	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797
Total	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797

Campo Construction Mitigated - San Diego County, Annual

3.10 Met Towers - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0215	0.1886	0.1628	2.9000e-004		9.8800e-003	9.8800e-003		9.5700e-003	9.5700e-003	0.0000	25.0118	25.0118	3.9000e-003	0.0000	25.1093
Total	0.0215	0.1886	0.1628	2.9000e-004		9.8800e-003	9.8800e-003		9.5700e-003	9.5700e-003	0.0000	25.0118	25.0118	3.9000e-003	0.0000	25.1093

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0143	3.5800e-003	5.0000e-005	1.1000e-003	6.0000e-005	1.1600e-003	3.0000e-004	5.0000e-005	3.6000e-004	0.0000	4.5498	4.5498	3.7000e-004	0.0000	4.5590
Vendor	9.8000e-004	0.0236	6.4500e-003	9.0000e-005	2.5800e-003	2.0000e-004	2.7900e-003	7.4000e-004	1.9000e-004	9.4000e-004	0.0000	8.5084	8.5084	4.4000e-004	0.0000	8.5194
Worker	2.1800e-003	1.7700e-003	0.0167	6.0000e-005	5.6100e-003	4.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.9918	4.9918	1.4000e-004	0.0000	4.9954
Total	3.6000e-003	0.0397	0.0267	2.0000e-004	9.2900e-003	3.0000e-004	9.6000e-003	2.5300e-003	2.7000e-004	2.8200e-003	0.0000	18.0501	18.0501	9.5000e-004	0.0000	18.0738

Campo Construction Mitigated - San Diego County, Annual

3.10 Met Towers - 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	tons/yr										MT/yr					
Off-Road	3.3800e-003	0.0248	0.1742	2.9000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	25.0117	25.0117	3.9000e-003	0.0000	25.1093
Total	3.3800e-003	0.0248	0.1742	2.9000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	25.0117	25.0117	3.9000e-003	0.0000	25.1093

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	4.4000e-004	0.0143	3.5800e-003	5.0000e-005	1.1000e-003	6.0000e-005	1.1600e-003	3.0000e-004	5.0000e-005	3.6000e-004	0.0000	4.5498	4.5498	3.7000e-004	0.0000	4.5590
Vendor	9.8000e-004	0.0236	6.4500e-003	9.0000e-005	2.5800e-003	2.0000e-004	2.7900e-003	7.4000e-004	1.9000e-004	9.4000e-004	0.0000	8.5084	8.5084	4.4000e-004	0.0000	8.5194
Worker	2.1800e-003	1.7700e-003	0.0167	6.0000e-005	5.6100e-003	4.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.9918	4.9918	1.4000e-004	0.0000	4.9954
Total	3.6000e-003	0.0397	0.0267	2.0000e-004	9.2900e-003	3.0000e-004	9.6000e-003	2.5300e-003	2.7000e-004	2.8200e-003	0.0000	18.0501	18.0501	9.5000e-004	0.0000	18.0738

4.0 Operational Detail - Mobile

Campo Construction Mitigated - San Diego County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Unmitigated	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Campo Construction Mitigated - San Diego County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
NaturalGas Mitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
NaturalGas Unmitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

Campo Construction Mitigated - 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					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

Campo Construction Mitigated - 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			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Construction Mitigated - 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	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Unmitigated	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Total	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

Campo Construction Mitigated - 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	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Total	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Campo Construction Mitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6966	7.5700e-003	1.9000e-004	0.9414
Unmitigated	0.6966	7.5700e-003	1.9000e-004	0.9414

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

Campo Construction Mitigated - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2517	0.0149	0.0000	0.6236
Unmitigated	0.2517	0.0149	0.0000	0.6236

Campo Construction Mitigated - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.2517	0.0149	0.0000	0.6236

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.2517	0.0149	0.0000	0.6236

9.0 Operational Offroad

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

Campo Construction Mitigated - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Campo Construction Mitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 12,557.65 76	0.0000	0.0000	- 12,557.65 76

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	24.26 / 0	-104.5606	0.0000	0.0000	-104.5606
Scrub	698.99 / 0	- 9,995.557 0	0.0000	0.0000	- 9,995.557 0
Trees	22.14 / 0	- 2,457.540 0	0.0000	0.0000	- 2,457.540 0
Wetlands	0.36 / 0	0.0000	0.0000	0.0000	0.0000
Total		- 12,557.65 76	0.0000	0.0000	- 12,557.65 76

Campo Construction Mitigated - San Diego County, Summer

Campo Construction Mitigated

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	43.00	Acre	43.00	1,873,080.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Construction Mitigated - San Diego County, Summer

Project Characteristics - Campo Construction Unmitigated. 2016 RPS for SDG&E. Minus Boulder Brush

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data from client

Off-road Equipment - Data provided by applicant

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by applicant.

Land Use Change - Data provided by bio report.

Construction Off-road Equipment Mitigation - M-AQ-1 and M-AQ-2

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	112385	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Campo Construction Mitigated - San Diego County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	55.00	40.00
tblConstructionPhase	NumDays	30.00	110.00

Campo Construction Mitigated - San Diego County, Summer

tblGrading	AcresOfGrading	279.00	745.75
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	PhaseName		Clearing and Grading
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	60.00

Campo Construction Mitigated - San Diego County, Summer

tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	43.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	8.00

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tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	35.00	72.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00

2.0 Emissions Summary

Campo Construction Mitigated - San Diego County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	41.1159	412.4927	252.6365	0.6782	116.5414	17.2373	133.4469	54.7380	16.3572	70.5376	0.0000	67,916.19 45	67,916.19 45	10.1949	0.0000	68,162.04 95
2020	51.9549	455.7082	332.9922	0.8880	77.8020	20.0711	97.8731	35.6972	18.9222	54.6194	0.0000	88,335.82 83	88,335.82 83	12.9570	0.0000	88,659.75 45
Maximum	51.9549	455.7082	332.9922	0.8880	116.5414	20.0711	133.4469	54.7380	18.9222	70.5376	0.0000	88,335.82 83	88,335.82 83	12.9570	0.0000	88,659.75 45

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	12.7606	100.1345	254.3927	0.6782	53.6582	2.0185	55.4453	23.6093	1.9966	25.3589	0.0000	67,916.19 45	67,916.19 45	10.1949	0.0000	68,162.04 95
2020	19.4305	110.9893	345.3458	0.8880	45.6591	2.0539	47.7129	18.0289	2.0292	20.0581	0.0000	88,335.82 83	88,335.82 83	12.9570	0.0000	88,659.75 45
Maximum	19.4305	110.9893	345.3458	0.8880	53.6582	2.0539	55.4453	23.6093	2.0292	25.3589	0.0000	88,335.82 83	88,335.82 83	12.9570	0.0000	88,659.75 45

	ROG	NOx	CO	SO2	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	65.41	75.68	-2.41	0.00	48.90	89.08	55.40	53.96	88.59	63.71	0.00	0.00	0.00	0.00	0.00	0.00

Campo Construction Mitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.9568	0.0611	0.1771	6.2000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		66.6189	66.6189	3.1600e-003	1.2000e-004	66.7333

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.9568	0.0611	0.1771	6.2000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		66.6189	66.6189	3.1600e-003	1.2000e-004	66.7333

Campo Construction Mitigated - 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	Clearing and Grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction Access Roads	Grading	9/29/2019	3/28/2020	5	130	
3	Substation and Switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
4	Wind Turbine Foundation Construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Wind Turbine Erection	Building Construction	12/22/2019	3/28/2020	5	70	
6	Construction of Underground Electrical Systems	Site Preparation	1/19/2020	6/20/2020	5	110	
7	O&M Building	Building Construction	2/2/2020	9/5/2020	5	155	
8	Paving	Paving	3/1/2020	4/25/2020	5	40	
9	Met Towers	Building Construction	6/7/2020	7/11/2020	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43

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

OffRoad Equipment

Campo Construction Mitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Construction of Underground Electrical Systems	Rollers	1	4.00	80	0.38
Construction of Underground Electrical Systems	Rubber Tired Dozers	2	7.00	247	0.40
Construction of Underground Electrical Systems	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of Underground Electrical Systems	Trenchers	3	8.00	78	0.50
Clearing and Grading	Graders	3	8.00	187	0.41
Clearing and Grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and Grading	Scrapers	3	8.00	367	0.48
Construction Access Roads	Rubber Tired Dozers	7	8.00	247	0.40
Construction Access Roads	Scrapers	3	8.00	367	0.48
Substation and Switchyard	Air Compressors	1	8.00	78	0.48
Substation and Switchyard	Cranes	2	7.00	231	0.29
Substation and Switchyard	Generator Sets	6	8.00	84	0.74
Substation and Switchyard	Pumps	3	8.00	84	0.74
Substation and Switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Substation and Switchyard	Welders	2	8.00	46	0.45
Wind Turbine Foundation Construction	Air Compressors	3	8.00	78	0.48
Wind Turbine Foundation Construction	Generator Sets	3	8.00	84	0.74
Wind Turbine Foundation Construction	Pumps	1	8.00	84	0.74
O&M Building	Cranes	1	7.00	231	0.29
O&M Building	Generator Sets	1	8.00	84	0.74
O&M Building	Tractors/Loaders/Backhoes	1	7.00	97	0.37
O&M Building	Welders	1	8.00	46	0.45
Wind Turbine Erection	Air Compressors	2	8.00	78	0.48
Wind Turbine Erection	Cranes	19	7.00	231	0.29
Wind Turbine Erection	Generator Sets	3	8.00	84	0.74

Campo Construction Mitigated - San Diego County, Summer

Wind Turbine Erection	Pumps	2	8.00	84	0.74
Wind Turbine Erection	Welders	7	8.00	46	0.45
Met Towers	Cranes	1	7.00	231	0.29
Met Towers	Generator Sets	2	8.00	84	0.74
Met Towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Met Towers	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	8	8.00	80	0.38
Clearing and Grading	Crushing/Proc. Equipment	1	8.00	85	0.78

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
Construction of Underground Electrical	10	240.00	12.00	368.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and Grading	14	72.00	108.00	734.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction Access Roads	10	120.00	0.00	22.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Substation and Switchyard	17	144.00	8.00	415.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Foundation Construction	7	168.00	20.00	3,046.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	120.00	4.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Erection	33	144.00	0.00	720.00	25.20	57.00	80.00	LD_Mix	HDT_Mix	HHDT
Met Towers	5	24.00	4.00	43.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving	13	66.00	0.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Campo Construction Mitigated - San Diego County, Summer

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Clearing and Grading - 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					
Fugitive Dust					60.9326	0.0000	60.9326	27.8592	0.0000	27.8592			0.0000			0.0000
Off-Road	14.3396	159.2198	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943		13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	14.3396	159.2198	68.3433	0.1406	60.9326	7.1432	68.0758	27.8592	6.5943	34.4534		13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Campo Construction Mitigated - San Diego County, Summer

3.2 Clearing and Grading - 2019**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	0.2622	8.2937	1.9878	0.0257	0.6201	0.0384	0.6585	0.1699	0.0368	0.2067		2,802.6653	2,802.6653	0.2215		2,808.2030
Vendor	2.6977	57.3895	15.6048	0.1913	5.6895	0.6885	6.3779	1.6358	0.6586	2.2944		20,476.6414	20,476.6414	1.0744		20,503.5021
Worker	0.5434	0.4268	4.7424	0.0144	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,439.1279	1,439.1279	0.0440		1,440.2282
Total	3.5033	66.1099	22.3350	0.2314	7.6887	0.7361	8.4248	2.1714	0.7039	2.8753		24,718.4346	24,718.4346	1.3400		24,751.9333

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.7637	0.0000	23.7637	10.8651	0.0000	10.8651			0.0000			0.0000
Off-Road	2.2460	7.1026	64.4712	0.1406		0.5004	0.5004		0.5004	0.5004	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189
Total	2.2460	7.1026	64.4712	0.1406	23.7637	0.5004	24.2641	10.8651	0.5004	11.3654	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189

Campo Construction Mitigated - San Diego County, Summer

3.2 Clearing and Grading - 2019**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	0.2622	8.2937	1.9878	0.0257	0.6201	0.0384	0.6585	0.1699	0.0368	0.2067		2,802.6653	2,802.6653	0.2215		2,808.2030
Vendor	2.6977	57.3895	15.6048	0.1913	5.6895	0.6885	6.3779	1.6358	0.6586	2.2944		20,476.6414	20,476.6414	1.0744		20,503.5021
Worker	0.5434	0.4268	4.7424	0.0144	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,439.1279	1,439.1279	0.0440		1,440.2282
Total	3.5033	66.1099	22.3350	0.2314	7.6887	0.7361	8.4248	2.1714	0.7039	2.8753		24,718.4346	24,718.4346	1.3400		24,751.9333

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	11.1379	123.2625	54.1730	0.1051		5.6391	5.6391		5.1880	5.1880		10,417.4429	10,417.4429	3.2960		10,499.8421
Total	11.1379	123.2625	54.1730	0.1051	42.1546	5.6391	47.7937	23.1716	5.1880	28.3596		10,417.4429	10,417.4429	3.2960		10,499.8421

Campo Construction Mitigated - San Diego County, Summer

3.3 Construction Access Roads - 2019**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	3.7500e-003	0.1186	0.0284	3.7000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5000e-003		40.0633	40.0633	3.1700e-003		40.1424
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	0.9057	0.7113	7.9039	0.0241	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,398.5465	2,398.5465	0.0734		2,400.3803
Total	0.9095	0.8299	7.9324	0.0244	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,438.6097	2,438.6097	0.0765		2,440.5227

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					16.4403	0.0000	16.4403	9.0369	0.0000	9.0369			0.0000			0.0000
Off-Road	1.2911	5.5948	47.3408	0.1051		0.1722	0.1722		0.1722	0.1722	0.0000	10,417.4429	10,417.4429	3.2960		10,499.8421
Total	1.2911	5.5948	47.3408	0.1051	16.4403	0.1722	16.6124	9.0369	0.1722	9.2091	0.0000	10,417.4429	10,417.4429	3.2960		10,499.8421

Campo Construction Mitigated - San Diego County, Summer

3.3 Construction Access Roads - 2019**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	3.7500e-003	0.1186	0.0284	3.7000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5000e-003		40.0633	40.0633	3.1700e-003		40.1424
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	0.9057	0.7113	7.9039	0.0241	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,398.5465	2,398.5465	0.0734		2,400.3803
Total	0.9095	0.8299	7.9324	0.0244	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,438.6097	2,438.6097	0.0765		2,440.5227

3.3 Construction Access Roads - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	10.5351	114.5820	51.2971	0.1052		5.2599	5.2599		4.8391	4.8391		10,192.4429	10,192.4429	3.2964		10,274.8540
Total	10.5351	114.5820	51.2971	0.1052	42.1546	5.2599	47.4145	23.1716	4.8391	28.0107		10,192.4429	10,192.4429	3.2964		10,274.8540

Campo Construction Mitigated - San Diego County, Summer

3.3 Construction Access Roads - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4300e-003	0.1089	0.0280	3.6000e-004	0.0160	4.3000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.5810	39.5810	3.1600e-003		39.6601
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	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.7620	2,322.7620	0.0665		2,324.4241
Total	0.8517	0.7516	7.2764	0.0237	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,362.3430	2,362.3430	0.0696		2,364.0841

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					16.4403	0.0000	16.4403	9.0369	0.0000	9.0369			0.0000			0.0000
Off-Road	1.2911	5.5948	47.3408	0.1052		0.1722	0.1722		0.1722	0.1722	0.0000	10,192.4429	10,192.4429	3.2964		10,274.8540
Total	1.2911	5.5948	47.3408	0.1052	16.4403	0.1722	16.6124	9.0369	0.1722	9.2091	0.0000	10,192.4429	10,192.4429	3.2964		10,274.8540

Campo Construction Mitigated - San Diego County, Summer

3.3 Construction Access Roads - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4300e-003	0.1089	0.0280	3.6000e-004	0.0160	4.3000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.5810	39.5810	3.1600e-003		39.6601
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	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.7620	2,322.7620	0.0665		2,324.4241
Total	0.8517	0.7516	7.2764	0.0237	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,362.3430	2,362.3430	0.0696		2,364.0841

3.4 Substation and Switchyard - 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	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099

Campo Construction Mitigated - San Diego County, Summer

3.4 Substation and Switchyard - 2019**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	0.0460	1.4537	0.3484	4.5000e-003	0.2721	6.7300e-003	0.2788	0.0699	6.4400e-003	0.0763		491.2301	491.2301	0.0388		492.2007
Vendor	0.1998	4.2511	1.1559	0.0142	0.4214	0.0510	0.4724	0.1212	0.0488	0.1700		1,516.7883	1,516.7883	0.0796		1,518.7779
Worker	1.0869	0.8536	9.4847	0.0289	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,878.2558	2,878.2558	0.0880		2,880.4564
Total	1.3327	6.5583	10.9890	0.0476	3.4518	0.0762	3.5280	0.9224	0.0722	0.9947		4,886.2741	4,886.2741	0.2064		4,891.4350

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2586	7.9901	52.6528	0.0865		0.2863	0.2863		0.2863	0.2863	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099
Total	1.2586	7.9901	52.6528	0.0865		0.2863	0.2863		0.2863	0.2863	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099

Campo Construction Mitigated - San Diego County, Summer

3.4 Substation and Switchyard - 2019**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	0.0460	1.4537	0.3484	4.5000e-003	0.2721	6.7300e-003	0.2788	0.0699	6.4400e-003	0.0763		491.2301	491.2301	0.0388		492.2007
Vendor	0.1998	4.2511	1.1559	0.0142	0.4214	0.0510	0.4724	0.1212	0.0488	0.1700		1,516.7883	1,516.7883	0.0796		1,518.7779
Worker	1.0869	0.8536	9.4847	0.0289	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,878.2558	2,878.2558	0.0880		2,880.4564
Total	1.3327	6.5583	10.9890	0.0476	3.4518	0.0762	3.5280	0.9224	0.0722	0.9947		4,886.2741	4,886.2741	0.2064		4,891.4350

3.4 Substation and Switchyard - 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	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378
Total	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378

Campo Construction Mitigated - San Diego County, Summer

3.4 Substation and Switchyard - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0420	1.3347	0.3433	4.4300e-003	0.1502	5.3200e-003	0.1555	0.0400	5.0900e-003	0.0451		485.3170	485.3170	0.0388		486.2866
Vendor	0.1557	3.6657	1.0261	0.0140	0.4214	0.0325	0.4540	0.1212	0.0311	0.1523		1,503.1735	1,503.1735	0.0773		1,505.1052
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.3144	2,787.3144	0.0798		2,789.3089
Total	1.2157	5.7716	10.0675	0.0464	3.3299	0.0560	3.3859	0.8925	0.0530	0.9455		4,775.8049	4,775.8049	0.1958		4,780.7007

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2263	7.7881	52.6396	0.0865		0.2625	0.2625		0.2625	0.2625	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378
Total	1.2263	7.7881	52.6396	0.0865		0.2625	0.2625		0.2625	0.2625	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378

Campo Construction Mitigated - San Diego County, Summer

3.4 Substation and Switchyard - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0420	1.3347	0.3433	4.4300e-003	0.1502	5.3200e-003	0.1555	0.0400	5.0900e-003	0.0451		485.3170	485.3170	0.0388		486.2866
Vendor	0.1557	3.6657	1.0261	0.0140	0.4214	0.0325	0.4540	0.1212	0.0311	0.1523		1,503.1735	1,503.1735	0.0773		1,505.1052
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.3144	2,787.3144	0.0798		2,789.3089
Total	1.2157	5.7716	10.0675	0.0464	3.3299	0.0560	3.3859	0.8925	0.0530	0.9455		4,775.8049	4,775.8049	0.1958		4,780.7007

3.5 Wind Turbine Foundation Construction - 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	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092
Total	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092

Campo Construction Mitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 2019**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	0.9636	30.4843	7.3065	0.0944	17.8126	0.1412	17.9538	4.4372	0.1351	4.5723		10,301.4588	10,301.4588	0.8142		10,321.8130
Vendor	0.4996	10.6277	2.8898	0.0354	1.0536	0.1275	1.1811	0.3029	0.1220	0.4249		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	1.2680	0.9958	11.0655	0.0337	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,357.9651	3,357.9651	0.1027		3,360.5325
Total	2.7313	42.1078	21.2618	0.1635	22.0842	0.2903	22.3744	5.5934	0.2769	5.8703		17,451.3944	17,451.3944	1.1158		17,479.2903

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3289	8.4817	23.5908	0.0382		0.5501	0.5501		0.5501	0.5501	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092
Total	1.3289	8.4817	23.5908	0.0382		0.5501	0.5501		0.5501	0.5501	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092

Campo Construction Mitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 2019**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	0.9636	30.4843	7.3065	0.0944	17.8126	0.1412	17.9538	4.4372	0.1351	4.5723		10,301.4588	10,301.4588	0.8142		10,321.8130
Vendor	0.4996	10.6277	2.8898	0.0354	1.0536	0.1275	1.1811	0.3029	0.1220	0.4249		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	1.2680	0.9958	11.0655	0.0337	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,357.9651	3,357.9651	0.1027		3,360.5325
Total	2.7313	42.1078	21.2618	0.1635	22.0842	0.2903	22.3744	5.5934	0.2769	5.8703		17,451.3944	17,451.3944	1.1158		17,479.2903

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726

Campo Construction Mitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8816	27.9887	7.1984	0.0930	2.4710	0.1116	2.5826	0.6715	0.1068	0.7783		10,177.4560	10,177.4560	0.8134		10,197.7905
Vendor	0.3893	9.1643	2.5653	0.0351	1.0536	0.0813	1.1349	0.3029	0.0778	0.3807		3,757.9338	3,757.9338	0.1932		3,762.7630
Worker	1.1876	0.8998	10.1478	0.0326	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,251.8668	3,251.8668	0.0931		3,254.1937
Total	2.4585	38.0527	19.9115	0.1607	6.7426	0.2141	6.9567	1.8277	0.2041	2.0318		17,187.2567	17,187.2567	1.0996		17,214.7471

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2318	7.8755	23.5511	0.0382		0.4788	0.4788		0.4788	0.4788	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726
Total	1.2318	7.8755	23.5511	0.0382		0.4788	0.4788		0.4788	0.4788	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726

Campo Construction Mitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8816	27.9887	7.1984	0.0930	2.4710	0.1116	2.5826	0.6715	0.1068	0.7783		10,177.4560	10,177.4560	0.8134		10,197.7905
Vendor	0.3893	9.1643	2.5653	0.0351	1.0536	0.0813	1.1349	0.3029	0.0778	0.3807		3,757.9338	3,757.9338	0.1932		3,762.7630
Worker	1.1876	0.8998	10.1478	0.0326	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,251.8668	3,251.8668	0.0931		3,254.1937
Total	2.4585	38.0527	19.9115	0.1607	6.7426	0.2141	6.9567	1.8277	0.2041	2.0318		17,187.2567	17,187.2567	1.0996		17,214.7471

3.6 Wind Turbine Erection - 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	14.0588	135.1318	74.4139	0.1546		6.4277	6.4277		6.0890	6.0890		14,814.4210	14,814.4210	3.5125		14,902.2322
Total	14.0588	135.1318	74.4139	0.1546		6.4277	6.4277		6.0890	6.0890		14,814.4210	14,814.4210	3.5125		14,902.2322

Campo Construction Mitigated - San Diego County, Summer

3.6 Wind Turbine Erection - 2019**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	0.2970	9.2639	2.2572	0.0294	5.6139	0.0443	5.6581	1.3984	0.0423	1.4408		3,207.419 6	3,207.419 6	0.2493		3,213.651 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0869	0.8536	9.4847	0.0289	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,878.255 8	2,878.255 8	0.0880		2,880.456 4
Total	1.3839	10.1174	11.7419	0.0583	8.3721	0.0627	8.4348	2.1298	0.0593	2.1892		6,085.675 4	6,085.675 4	0.3373		6,094.108 1

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5246	18.4545	78.8834	0.1546		0.5648	0.5648		0.5648	0.5648	0.0000	14,814.42 10	14,814.42 10	3.5125		14,902.23 22
Total	2.5246	18.4545	78.8834	0.1546		0.5648	0.5648		0.5648	0.5648	0.0000	14,814.42 10	14,814.42 10	3.5125		14,902.23 22

Campo Construction Mitigated - San Diego County, Summer

3.6 Wind Turbine Erection - 2019**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	0.2970	9.2639	2.2572	0.0294	5.6139	0.0443	5.6581	1.3984	0.0423	1.4408		3,207.419 6	3,207.419 6	0.2493		3,213.651 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0869	0.8536	9.4847	0.0289	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,878.255 8	2,878.255 8	0.0880		2,880.456 4
Total	1.3839	10.1174	11.7419	0.0583	8.3721	0.0627	8.4348	2.1298	0.0593	2.1892		6,085.675 4	6,085.675 4	0.3373		6,094.108 1

3.6 Wind Turbine Erection - 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	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.92 27	14,607.92 27	3.4571		14,694.35 04

Campo Construction Mitigated - San Diego County, Summer

3.6 Wind Turbine Erection - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2720	8.4891	2.2266	0.0290	0.7787	0.0350	0.8137	0.2116	0.0335	0.2451		3,168.1565	3,168.1565	0.2496		3,174.3965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.3144	2,787.3144	0.0798		2,789.3089
Total	1.2899	9.2603	10.9246	0.0569	3.5370	0.0532	3.5901	0.9430	0.0502	0.9932		5,955.4709	5,955.4709	0.3294		5,963.7054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4599	18.0504	78.8570	0.1546		0.5173	0.5173		0.5173	0.5173	0.0000	14,607.9227	14,607.9227	3.4571		14,694.3504
Total	2.4599	18.0504	78.8570	0.1546		0.5173	0.5173		0.5173	0.5173	0.0000	14,607.9227	14,607.9227	3.4571		14,694.3504

Campo Construction Mitigated - San Diego County, Summer

3.6 Wind Turbine Erection - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2720	8.4891	2.2266	0.0290	0.7787	0.0350	0.8137	0.2116	0.0335	0.2451		3,168.1565	3,168.1565	0.2496		3,174.3965
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.3144	2,787.3144	0.0798		2,789.3089
Total	1.2899	9.2603	10.9246	0.0569	3.5370	0.0532	3.5901	0.9430	0.0502	0.9932		5,955.4709	5,955.4709	0.3294		5,963.7054

3.7 Construction of Underground Electrical Systems - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.5387	0.0000	10.5387	5.7929	0.0000	5.7929			0.0000			0.0000
Off-Road	4.0904	40.6823	25.2047	0.0388		2.4228	2.4228		2.2289	2.2289		3,758.3929	3,758.3929	1.2155		3,788.7814
Total	4.0904	40.6823	25.2047	0.0388	10.5387	2.4228	12.9614	5.7929	2.2289	8.0218		3,758.3929	3,758.3929	1.2155		3,788.7814

Campo Construction Mitigated - San Diego County, Summer

3.7 Construction of Underground Electrical Systems - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0678	2.1518	0.5534	7.1500e-003	0.1752	8.5800e-003	0.1838	0.0480	8.2100e-003	0.0562		782.4607	782.4607	0.0625		784.0240
Vendor	0.2336	5.4986	1.5392	0.0210	0.6322	0.0488	0.6810	0.1818	0.0467	0.2284		2,254.7603	2,254.7603	0.1159		2,257.6578
Worker	1.6965	1.2854	14.4968	0.0466	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,645.5241	4,645.5241	0.1330		4,648.8481
Total	1.9979	8.9358	16.5894	0.0748	5.4045	0.0877	5.4922	1.4487	0.0828	1.5315		7,682.7450	7,682.7450	0.3114		7,690.5299

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1101	0.0000	4.1101	2.2592	0.0000	2.2592			0.0000			0.0000
Off-Road	0.4748	2.0574	24.7040	0.0388		0.0633	0.0633		0.0633	0.0633	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814
Total	0.4748	2.0574	24.7040	0.0388	4.1101	0.0633	4.1734	2.2592	0.0633	2.3225	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814

Campo Construction Mitigated - San Diego County, Summer

3.7 Construction of Underground Electrical Systems - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0678	2.1518	0.5534	7.1500e-003	0.1752	8.5800e-003	0.1838	0.0480	8.2100e-003	0.0562		782.4607	782.4607	0.0625		784.0240
Vendor	0.2336	5.4986	1.5392	0.0210	0.6322	0.0488	0.6810	0.1818	0.0467	0.2284		2,254.7603	2,254.7603	0.1159		2,257.6578
Worker	1.6965	1.2854	14.4968	0.0466	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,645.5241	4,645.5241	0.1330		4,648.8481
Total	1.9979	8.9358	16.5894	0.0748	5.4045	0.0877	5.4922	1.4487	0.0828	1.5315		7,682.7450	7,682.7450	0.3114		7,690.5299

3.8 O&M Building - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.6257	1,582.6257	0.3090		1,590.3506
Total	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.6257	1,582.6257	0.3090		1,590.3506

Campo Construction Mitigated - San Diego County, Summer

3.8 O&M Building - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6100e-003	0.0830	0.0214	2.8000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		30.1791	30.1791	2.4100e-003		30.2394
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.7620	2,322.7620	0.0665		2,324.4241
Total	0.9287	2.5586	7.7828	0.0306	2.5160	0.0317	2.5478	0.6719	0.0298	0.7018		3,104.5279	3,104.5279	0.1075		3,107.2160

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	0.2049	1.7018	9.8769	0.0169		0.0244	0.0244		0.0244	0.0244	0.0000	1,582.6257	1,582.6257	0.3090		1,590.3506
Total	0.2049	1.7018	9.8769	0.0169		0.0244	0.0244		0.0244	0.0244	0.0000	1,582.6257	1,582.6257	0.3090		1,590.3506

Campo Construction Mitigated - San Diego County, Summer

3.8 O&M Building - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6100e-003	0.0830	0.0214	2.8000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		30.1791	30.1791	2.4100e-003		30.2394
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.7620	2,322.7620	0.0665		2,324.4241
Total	0.9287	2.5586	7.7828	0.0306	2.5160	0.0317	2.5478	0.6719	0.0298	0.7018		3,104.5279	3,104.5279	0.1075		3,107.2160

3.9 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.9163	4,065.9163	1.3150		4,098.7913
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5742	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.9163	4,065.9163	1.3150		4,098.7913

Campo Construction Mitigated - San Diego County, Summer

3.9 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2
Total	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5163	2.2372	31.8375	0.0420		0.0688	0.0688		0.0688	0.0688	0.0000	4,065.916 3	4,065.916 3	1.3150		4,098.791 3
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3328	2.2372	31.8375	0.0420		0.0688	0.0688		0.0688	0.0688	0.0000	4,065.916 3	4,065.916 3	1.3150		4,098.791 3

Campo Construction Mitigated - San Diego County, Summer

3.9 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2
Total	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2

3.10 Met Towers - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.660 2	2,205.660 2	0.3441		2,214.262 2

Campo Construction Mitigated - San Diego County, Summer

3.10 Met Towers - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0349	1.1063	0.2845	3.6800e-003	0.0901	4.4100e-003	0.0945	0.0247	4.2200e-003	0.0289		402.2868	402.2868	0.0322		403.0906
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.1697	0.1285	1.4497	4.6600e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		464.5524	464.5524	0.0133		464.8848
Total	0.2824	3.0677	2.2473	0.0154	0.7605	0.0237	0.7842	0.2072	0.0226	0.2297		1,618.4260	1,618.4260	0.0841		1,620.5280

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	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	0.0000	2,205.6602	2,205.6602	0.3441		2,214.2622
Total	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	0.0000	2,205.6602	2,205.6602	0.3441		2,214.2622

Campo Construction Mitigated - San Diego County, Summer

3.10 Met Towers - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0349	1.1063	0.2845	3.6800e-003	0.0901	4.4100e-003	0.0945	0.0247	4.2200e-003	0.0289		402.2868	402.2868	0.0322		403.0906
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.1697	0.1285	1.4497	4.6600e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		464.5524	464.5524	0.0133		464.8848
Total	0.2824	3.0677	2.2473	0.0154	0.7605	0.0237	0.7842	0.2072	0.0226	0.2297		1,618.4260	1,618.4260	0.0841		1,620.5280

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

Campo Construction Mitigated - 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	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Unmitigated	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Campo Construction Mitigated - San Diego County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Campo Construction Mitigated - 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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Construction Mitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Unmitigated	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

Campo Construction Mitigated - 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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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**Fire Pumps and Emergency Generators**

Campo Construction Mitigated - San Diego County, Summer

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

Campo Construction Mitigated - San Diego County, Winter

Campo Construction Mitigated

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	43.00	Acre	43.00	1,873,080.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Construction Mitigated - San Diego County, Winter

Project Characteristics - Campo Construction Unmitigated. 2016 RPS for SDG&E. Minus Boulder Brush

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data from client

Off-road Equipment - Data provided by applicant

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by applicant.

Land Use Change - Data provided by bio report.

Construction Off-road Equipment Mitigation - M-AQ-1 and M-AQ-2

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	112385	79200
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Campo Construction Mitigated - San Diego County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	55.00	40.00
tblConstructionPhase	NumDays	30.00	110.00

Campo Construction Mitigated - San Diego County, Winter

tblGrading	AcresOfGrading	279.00	745.75
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	PhaseName		Clearing and Grading
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	60.00

Campo Construction Mitigated - San Diego County, Winter

tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	43.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	8.00

Campo Construction Mitigated - San Diego County, Winter

tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	35.00	72.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00

2.0 Emissions Summary

Campo Construction Mitigated - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	41.9077	414.6512	249.5942	0.6701	116.5414	17.2392	133.4491	54.7380	16.3591	70.5397	0.0000	67,101.1187	67,101.1187	10.1999	0.0000	67,346.8590
2020	53.2524	457.8902	327.8724	0.8748	77.8020	20.0727	97.8747	35.6972	18.9237	54.6209	0.0000	87,014.6106	87,014.6106	12.9396	0.0000	87,338.1005
Maximum	53.2524	457.8902	327.8724	0.8748	116.5414	20.0727	133.4491	54.7380	18.9237	70.5397	0.0000	87,014.6106	87,014.6106	12.9396	0.0000	87,338.1005

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	13.5524	101.9949	251.3504	0.6701	53.6582	2.0204	55.4474	23.6093	1.9984	25.3609	0.0000	67,101.1187	67,101.1187	10.1999	0.0000	67,346.8590
2020	20.7279	113.1714	340.2260	0.8748	45.6591	2.0555	47.7145	18.0289	2.0307	20.0596	0.0000	87,014.6106	87,014.6106	12.9396	0.0000	87,338.1005
Maximum	20.7279	113.1714	340.2260	0.8748	53.6582	2.0555	55.4474	23.6093	2.0307	25.3609	0.0000	87,014.6106	87,014.6106	12.9396	0.0000	87,338.1005

	ROG	NOx	CO	SO2	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	63.98	75.34	-2.44	0.00	48.90	89.08	55.40	53.96	88.58	63.71	0.00	0.00	0.00	0.00	0.00	0.00

Campo Construction Mitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.9565	0.0630	0.1723	5.9000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		63.5403	63.5403	3.1500e-003	1.2000e-004	63.6546

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.9565	0.0630	0.1723	5.9000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		63.5403	63.5403	3.1500e-003	1.2000e-004	63.6546

Campo Construction Mitigated - 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	Clearing and Grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction Access Roads	Grading	9/29/2019	3/28/2020	5	130	
3	Substation and Switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
4	Wind Turbine Foundation Construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Wind Turbine Erection	Building Construction	12/22/2019	3/28/2020	5	70	
6	Construction of Underground Electrical Systems	Site Preparation	1/19/2020	6/20/2020	5	110	
7	O&M Building	Building Construction	2/2/2020	9/5/2020	5	155	
8	Paving	Paving	3/1/2020	4/25/2020	5	40	
9	Met Towers	Building Construction	6/7/2020	7/11/2020	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43

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

OffRoad Equipment

Campo Construction Mitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Construction of Underground Electrical Systems	Rollers	1	4.00	80	0.38
Construction of Underground Electrical Systems	Rubber Tired Dozers	2	7.00	247	0.40
Construction of Underground Electrical Systems	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of Underground Electrical Systems	Trenchers	3	8.00	78	0.50
Clearing and Grading	Graders	3	8.00	187	0.41
Clearing and Grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and Grading	Scrapers	3	8.00	367	0.48
Construction Access Roads	Rubber Tired Dozers	7	8.00	247	0.40
Construction Access Roads	Scrapers	3	8.00	367	0.48
Substation and Switchyard	Air Compressors	1	8.00	78	0.48
Substation and Switchyard	Cranes	2	7.00	231	0.29
Substation and Switchyard	Generator Sets	6	8.00	84	0.74
Substation and Switchyard	Pumps	3	8.00	84	0.74
Substation and Switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Substation and Switchyard	Welders	2	8.00	46	0.45
Wind Turbine Foundation Construction	Air Compressors	3	8.00	78	0.48
Wind Turbine Foundation Construction	Generator Sets	3	8.00	84	0.74
Wind Turbine Foundation Construction	Pumps	1	8.00	84	0.74
O&M Building	Cranes	1	7.00	231	0.29
O&M Building	Generator Sets	1	8.00	84	0.74
O&M Building	Tractors/Loaders/Backhoes	1	7.00	97	0.37
O&M Building	Welders	1	8.00	46	0.45
Wind Turbine Erection	Air Compressors	2	8.00	78	0.48
Wind Turbine Erection	Cranes	19	7.00	231	0.29
Wind Turbine Erection	Generator Sets	3	8.00	84	0.74

Campo Construction Mitigated - San Diego County, Winter

Wind Turbine Erection	Pumps	2	8.00	84	0.74
Wind Turbine Erection	Welders	7	8.00	46	0.45
Met Towers	Cranes	1	7.00	231	0.29
Met Towers	Generator Sets	2	8.00	84	0.74
Met Towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Met Towers	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	8	8.00	80	0.38
Clearing and Grading	Crushing/Proc. Equipment	1	8.00	85	0.78

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
Construction of Underground Electrical	10	240.00	12.00	368.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and Grading	14	72.00	108.00	734.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction Access Roads	10	120.00	0.00	22.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Substation and Switchyard	17	144.00	8.00	415.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Foundation Construction	7	168.00	20.00	3,046.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	120.00	4.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Erection	33	144.00	0.00	720.00	25.20	57.00	80.00	LD_Mix	HDT_Mix	HHDT
Met Towers	5	24.00	4.00	43.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving	13	66.00	0.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Campo Construction Mitigated - San Diego County, Winter

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Clearing and Grading - 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					
Fugitive Dust					60.9326	0.0000	60.9326	27.8592	0.0000	27.8592			0.0000			0.0000
Off-Road	14.3396	159.2198	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943		13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	14.3396	159.2198	68.3433	0.1406	60.9326	7.1432	68.0758	27.8592	6.5943	34.4534		13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Campo Construction Mitigated - San Diego County, Winter

3.2 Clearing and Grading - 2019**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	0.2650	8.4980	2.0321	0.0255	0.6201	0.0387	0.6589	0.1699	0.0371	0.2070		2,785.4236	2,785.4236	0.2247		2,791.0413
Vendor	2.7385	58.9466	15.8473	0.1905	5.6895	0.6901	6.3796	1.6358	0.6602	2.2960		20,395.4645	20,395.4645	1.0883		20,422.6712
Worker	0.6395	0.4789	4.3286	0.0136	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,350.0769	1,350.0769	0.0411		1,351.1044
Total	3.6429	67.9234	22.2080	0.2296	7.6887	0.7381	8.4268	2.1714	0.7058	2.8772		24,530.9649	24,530.9649	1.3541		24,564.8169

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.7637	0.0000	23.7637	10.8651	0.0000	10.8651			0.0000			0.0000
Off-Road	2.2460	7.1026	64.4712	0.1406		0.5004	0.5004		0.5004	0.5004	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189
Total	2.2460	7.1026	64.4712	0.1406	23.7637	0.5004	24.2641	10.8651	0.5004	11.3654	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189

Campo Construction Mitigated - San Diego County, Winter

3.2 Clearing and Grading - 2019**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	0.2650	8.4980	2.0321	0.0255	0.6201	0.0387	0.6589	0.1699	0.0371	0.2070		2,785.4236	2,785.4236	0.2247		2,791.0413
Vendor	2.7385	58.9466	15.8473	0.1905	5.6895	0.6901	6.3796	1.6358	0.6602	2.2960		20,395.4645	20,395.4645	1.0883		20,422.6712
Worker	0.6395	0.4789	4.3286	0.0136	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,350.0769	1,350.0769	0.0411		1,351.1044
Total	3.6429	67.9234	22.2080	0.2296	7.6887	0.7381	8.4268	2.1714	0.7058	2.8772		24,530.9649	24,530.9649	1.3541		24,564.8169

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	11.1379	123.2625	54.1730	0.1051		5.6391	5.6391		5.1880	5.1880		10,417.4429	10,417.4429	3.2960		10,499.8421
Total	11.1379	123.2625	54.1730	0.1051	42.1546	5.6391	47.7937	23.1716	5.1880	28.3596		10,417.4429	10,417.4429	3.2960		10,499.8421

Campo Construction Mitigated - San Diego County, Winter

3.3 Construction Access Roads - 2019**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	3.7900e-003	0.1215	0.0291	3.6000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5100e-003		39.8168	39.8168	3.2100e-003		39.8971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0658	0.7981	7.2143	0.0226	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,250.1282	2,250.1282	0.0685		2,251.8407
Total	1.0695	0.9196	7.2433	0.0229	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,289.9450	2,289.9450	0.0717		2,291.7378

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					16.4403	0.0000	16.4403	9.0369	0.0000	9.0369			0.0000			0.0000
Off-Road	1.2911	5.5948	47.3408	0.1051		0.1722	0.1722		0.1722	0.1722	0.0000	10,417.4429	10,417.4429	3.2960		10,499.8421
Total	1.2911	5.5948	47.3408	0.1051	16.4403	0.1722	16.6124	9.0369	0.1722	9.2091	0.0000	10,417.4429	10,417.4429	3.2960		10,499.8421

Campo Construction Mitigated - San Diego County, Winter

3.3 Construction Access Roads - 2019**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	3.7900e-003	0.1215	0.0291	3.6000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5100e-003		39.8168	39.8168	3.2100e-003		39.8971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0658	0.7981	7.2143	0.0226	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,250.1282	2,250.1282	0.0685		2,251.8407
Total	1.0695	0.9196	7.2433	0.0229	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,289.9450	2,289.9450	0.0717		2,291.7378

3.3 Construction Access Roads - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	10.5351	114.5820	51.2971	0.1052		5.2599	5.2599		4.8391	4.8391		10,192.4429	10,192.4429	3.2964		10,274.8540
Total	10.5351	114.5820	51.2971	0.1052	42.1546	5.2599	47.4145	23.1716	4.8391	28.0107		10,192.4429	10,192.4429	3.2964		10,274.8540

Campo Construction Mitigated - San Diego County, Winter

3.3 Construction Access Roads - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4600e-003	0.1115	0.0286	3.6000e-004	0.0160	4.4000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.3324	39.3324	3.2100e-003		39.4125
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.9974	2,178.9974	0.0620		2,180.5463
Total	1.0038	0.8325	6.6303	0.0222	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,218.3298	2,218.3298	0.0652		2,219.9589

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					16.4403	0.0000	16.4403	9.0369	0.0000	9.0369			0.0000			0.0000
Off-Road	1.2911	5.5948	47.3408	0.1052		0.1722	0.1722		0.1722	0.1722	0.0000	10,192.4429	10,192.4429	3.2964		10,274.8540
Total	1.2911	5.5948	47.3408	0.1052	16.4403	0.1722	16.6124	9.0369	0.1722	9.2091	0.0000	10,192.4429	10,192.4429	3.2964		10,274.8540

Campo Construction Mitigated - San Diego County, Winter

3.3 Construction Access Roads - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4600e-003	0.1115	0.0286	3.6000e-004	0.0160	4.4000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.3324	39.3324	3.2100e-003		39.4125
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.9974	2,178.9974	0.0620		2,180.5463
Total	1.0038	0.8325	6.6303	0.0222	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,218.3298	2,218.3298	0.0652		2,219.9589

3.4 Substation and Switchyard - 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	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099

Campo Construction Mitigated - San Diego County, Winter

3.4 Substation and Switchyard - 2019**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	0.0464	1.4895	0.3562	4.4700e-003	0.2721	6.7900e-003	0.2789	0.0699	6.5000e-003	0.0764		488.2081	488.2081	0.0394		489.1927
Vendor	0.2029	4.3664	1.1739	0.0141	0.4214	0.0511	0.4726	0.1212	0.0489	0.1701		1,510.7751	1,510.7751	0.0806		1,512.7905
Worker	1.2789	0.9577	8.6572	0.0271	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,700.1538	2,700.1538	0.0822		2,702.2088
Total	1.5282	6.8136	10.1872	0.0457	3.4518	0.0764	3.5281	0.9224	0.0724	0.9948		4,699.1370	4,699.1370	0.2022		4,704.1920

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2586	7.9901	52.6528	0.0865		0.2863	0.2863		0.2863	0.2863	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099
Total	1.2586	7.9901	52.6528	0.0865		0.2863	0.2863		0.2863	0.2863	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099

Campo Construction Mitigated - San Diego County, Winter

3.4 Substation and Switchyard - 2019**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	0.0464	1.4895	0.3562	4.4700e-003	0.2721	6.7900e-003	0.2789	0.0699	6.5000e-003	0.0764		488.2081	488.2081	0.0394		489.1927
Vendor	0.2029	4.3664	1.1739	0.0141	0.4214	0.0511	0.4726	0.1212	0.0489	0.1701		1,510.7751	1,510.7751	0.0806		1,512.7905
Worker	1.2789	0.9577	8.6572	0.0271	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,700.1538	2,700.1538	0.0822		2,702.2088
Total	1.5282	6.8136	10.1872	0.0457	3.4518	0.0764	3.5281	0.9224	0.0724	0.9948		4,699.1370	4,699.1370	0.2022		4,704.1920

3.4 Substation and Switchyard - 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	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378
Total	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378

Campo Construction Mitigated - San Diego County, Winter

3.4 Substation and Switchyard - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0425	1.3671	0.3501	4.4100e-003	0.1502	5.3600e-003	0.1555	0.0400	5.1300e-003	0.0451		482.2685	482.2685	0.0393		483.2513
Vendor	0.1585	3.7625	1.0422	0.0140	0.4214	0.0326	0.4541	0.1212	0.0312	0.1524		1,497.1112	1,497.1112	0.0782		1,499.0671
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.7969	2,614.7969	0.0744		2,616.6556
Total	1.4014	5.9948	9.3145	0.0446	3.3299	0.0562	3.3860	0.8925	0.0531	0.9456		4,594.1767	4,594.1767	0.1919		4,598.9740

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2263	7.7881	52.6396	0.0865		0.2625	0.2625		0.2625	0.2625	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378
Total	1.2263	7.7881	52.6396	0.0865		0.2625	0.2625		0.2625	0.2625	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378

Campo Construction Mitigated - San Diego County, Winter

3.4 Substation and Switchyard - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0425	1.3671	0.3501	4.4100e-003	0.1502	5.3600e-003	0.1555	0.0400	5.1300e-003	0.0451		482.2685	482.2685	0.0393		483.2513
Vendor	0.1585	3.7625	1.0422	0.0140	0.4214	0.0326	0.4541	0.1212	0.0312	0.1524		1,497.1112	1,497.1112	0.0782		1,499.0671
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.7969	2,614.7969	0.0744		2,616.6556
Total	1.4014	5.9948	9.3145	0.0446	3.3299	0.0562	3.3860	0.8925	0.0531	0.9456		4,594.1767	4,594.1767	0.1919		4,598.9740

3.5 Wind Turbine Foundation Construction - 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	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092
Total	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092

Campo Construction Mitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 2019**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	0.9739	31.2352	7.4693	0.0938	17.8126	0.1424	17.9550	4.4372	0.1362	4.5734		10,238.0851	10,238.0851	0.8259		10,258.7335
Vendor	0.5071	10.9160	2.9347	0.0353	1.0536	0.1278	1.1814	0.3029	0.1223	0.4252		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	1.4921	1.1174	10.1000	0.0316	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,150.1794	3,150.1794	0.0959		3,152.5770
Total	2.9731	43.2686	20.5040	0.1607	22.0842	0.2917	22.3759	5.5934	0.2783	5.8717		17,165.2024	17,165.2024	1.1234		17,193.2866

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3289	8.4817	23.5908	0.0382		0.5501	0.5501		0.5501	0.5501	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092
Total	1.3289	8.4817	23.5908	0.0382		0.5501	0.5501		0.5501	0.5501	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092

Campo Construction Mitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 2019**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	0.9739	31.2352	7.4693	0.0938	17.8126	0.1424	17.9550	4.4372	0.1362	4.5734		10,238.0851	10,238.0851	0.8259		10,258.7335
Vendor	0.5071	10.9160	2.9347	0.0353	1.0536	0.1278	1.1814	0.3029	0.1223	0.4252		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	1.4921	1.1174	10.1000	0.0316	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,150.1794	3,150.1794	0.0959		3,152.5770
Total	2.9731	43.2686	20.5040	0.1607	22.0842	0.2917	22.3759	5.5934	0.2783	5.8717		17,165.2024	17,165.2024	1.1234		17,193.2866

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726

Campo Construction Mitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8908	28.6682	7.3413	0.0924	2.4710	0.1124	2.5834	0.6715	0.1075	0.7791		10,113.528 2	10,113.528 2	0.8244		10,134.13 70
Vendor	0.3961	9.4063	2.6056	0.0349	1.0536	0.0816	1.1351	0.3029	0.0780	0.3809		3,742.778 1	3,742.778 1	0.1956		3,747.667 9
Worker	1.4005	1.0094	9.2425	0.0306	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,050.596 4	3,050.596 4	0.0867		3,052.764 9
Total	2.6874	39.0839	19.1894	0.1579	6.7426	0.2151	6.9577	1.8277	0.2051	2.0328		16,906.90 26	16,906.90 26	1.1067		16,934.56 97

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2318	7.8755	23.5511	0.0382		0.4788	0.4788		0.4788	0.4788	0.0000	3,617.930 5	3,617.930 5	0.2297		3,623.672 6
Total	1.2318	7.8755	23.5511	0.0382		0.4788	0.4788		0.4788	0.4788	0.0000	3,617.930 5	3,617.930 5	0.2297		3,623.672 6

Campo Construction Mitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8908	28.6682	7.3413	0.0924	2.4710	0.1124	2.5834	0.6715	0.1075	0.7791		10,113.5282	10,113.5282	0.8244		10,134.1370
Vendor	0.3961	9.4063	2.6056	0.0349	1.0536	0.0816	1.1351	0.3029	0.0780	0.3809		3,742.7781	3,742.7781	0.1956		3,747.6679
Worker	1.4005	1.0094	9.2425	0.0306	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,050.5964	3,050.5964	0.0867		3,052.7649
Total	2.6874	39.0839	19.1894	0.1579	6.7426	0.2151	6.9577	1.8277	0.2051	2.0328		16,906.9026	16,906.9026	1.1067		16,934.5697

3.6 Wind Turbine Erection - 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	14.0588	135.1318	74.4139	0.1546		6.4277	6.4277		6.0890	6.0890		14,814.4210	14,814.4210	3.5125		14,902.2322
Total	14.0588	135.1318	74.4139	0.1546		6.4277	6.4277		6.0890	6.0890		14,814.4210	14,814.4210	3.5125		14,902.2322

Campo Construction Mitigated - San Diego County, Winter

3.6 Wind Turbine Erection - 2019**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	0.2994	9.5142	2.2910	0.0293	5.6139	0.0445	5.6584	1.3984	0.0426	1.4410		3,192.4396	3,192.4396	0.2520		3,198.7404
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2789	0.9577	8.6572	0.0271	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,700.1538	2,700.1538	0.0822		2,702.2088
Total	1.5783	10.4720	10.9481	0.0563	8.3721	0.0630	8.4351	2.1298	0.0596	2.1894		5,892.5934	5,892.5934	0.3342		5,900.9492

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5246	18.4545	78.8834	0.1546		0.5648	0.5648		0.5648	0.5648	0.0000	14,814.4210	14,814.4210	3.5125		14,902.2322
Total	2.5246	18.4545	78.8834	0.1546		0.5648	0.5648		0.5648	0.5648	0.0000	14,814.4210	14,814.4210	3.5125		14,902.2322

Campo Construction Mitigated - San Diego County, Winter

3.6 Wind Turbine Erection - 2019**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	0.2994	9.5142	2.2910	0.0293	5.6139	0.0445	5.6584	1.3984	0.0426	1.4410		3,192.4396	3,192.4396	0.2520		3,198.7404
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2789	0.9577	8.6572	0.0271	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,700.1538	2,700.1538	0.0822		2,702.2088
Total	1.5783	10.4720	10.9481	0.0563	8.3721	0.0630	8.4351	2.1298	0.0596	2.1894		5,892.5934	5,892.5934	0.3342		5,900.9492

3.6 Wind Turbine Erection - 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	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.9227	14,607.9227	3.4571		14,694.3504
Total	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.9227	14,607.9227	3.4571		14,694.3504

Campo Construction Mitigated - San Diego County, Winter

3.6 Wind Turbine Erection - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2741	8.7162	2.2557	0.0288	0.7787	0.0352	0.8139	0.2116	0.0337	0.2453		3,153.0455	3,153.0455	0.2522		3,159.3496
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.7969	2,614.7969	0.0744		2,616.6556
Total	1.4745	9.5814	10.1779	0.0550	3.5370	0.0534	3.5903	0.9430	0.0504	0.9934		5,767.8423	5,767.8423	0.3265		5,776.0052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4599	18.0504	78.8570	0.1546		0.5173	0.5173		0.5173	0.5173	0.0000	14,607.9227	14,607.9227	3.4571		14,694.3504
Total	2.4599	18.0504	78.8570	0.1546		0.5173	0.5173		0.5173	0.5173	0.0000	14,607.9227	14,607.9227	3.4571		14,694.3504

Campo Construction Mitigated - San Diego County, Winter

3.6 Wind Turbine Erection - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2741	8.7162	2.2557	0.0288	0.7787	0.0352	0.8139	0.2116	0.0337	0.2453		3,153.045 5	3,153.045 5	0.2522		3,159.349 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.796 9	2,614.796 9	0.0744		2,616.655 6
Total	1.4745	9.5814	10.1779	0.0550	3.5370	0.0534	3.5903	0.9430	0.0504	0.9934		5,767.842 3	5,767.842 3	0.3265		5,776.005 2

3.7 Construction of Underground Electrical Systems - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.5387	0.0000	10.5387	5.7929	0.0000	5.7929			0.0000			0.0000
Off-Road	4.0904	40.6823	25.2047	0.0388		2.4228	2.4228		2.2289	2.2289		3,758.392 9	3,758.392 9	1.2155		3,788.781 4
Total	4.0904	40.6823	25.2047	0.0388	10.5387	2.4228	12.9614	5.7929	2.2289	8.0218		3,758.392 9	3,758.392 9	1.2155		3,788.781 4

Campo Construction Mitigated - San Diego County, Winter

3.7 Construction of Underground Electrical Systems - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0685	2.2041	0.5644	7.1100e-003	0.1752	8.6400e-003	0.1839	0.0480	8.2700e-003	0.0563		777.5458	777.5458	0.0634		779.1302
Vendor	0.2377	5.6438	1.5634	0.0209	0.6322	0.0489	0.6811	0.1818	0.0468	0.2286		2,245.6669	2,245.6669	0.1174		2,248.6007
Worker	2.0007	1.4420	13.2036	0.0437	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,357.9948	4,357.9948	0.1239		4,361.0927
Total	2.3069	9.2898	15.3314	0.0718	5.4045	0.0879	5.4924	1.4487	0.0830	1.5317		7,381.2074	7,381.2074	0.3047		7,388.8236

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1101	0.0000	4.1101	2.2592	0.0000	2.2592			0.0000			0.0000
Off-Road	0.4748	2.0574	24.7040	0.0388		0.0633	0.0633		0.0633	0.0633	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814
Total	0.4748	2.0574	24.7040	0.0388	4.1101	0.0633	4.1734	2.2592	0.0633	2.3225	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814

Campo Construction Mitigated - San Diego County, Winter

3.7 Construction of Underground Electrical Systems - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0685	2.2041	0.5644	7.1100e-003	0.1752	8.6400e-003	0.1839	0.0480	8.2700e-003	0.0563		777.5458	777.5458	0.0634		779.1302
Vendor	0.2377	5.6438	1.5634	0.0209	0.6322	0.0489	0.6811	0.1818	0.0468	0.2286		2,245.6669	2,245.6669	0.1174		2,248.6007
Worker	2.0007	1.4420	13.2036	0.0437	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,357.9948	4,357.9948	0.1239		4,361.0927
Total	2.3069	9.2898	15.3314	0.0718	5.4045	0.0879	5.4924	1.4487	0.0830	1.5317		7,381.2074	7,381.2074	0.3047		7,388.8236

3.8 O&M Building - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.6257	1,582.6257	0.3090		1,590.3506
Total	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.6257	1,582.6257	0.3090		1,590.3506

Campo Construction Mitigated - San Diego County, Winter

3.8 O&M Building - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6400e-003	0.0850	0.0218	2.7000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		29.9895	29.9895	2.4400e-003		30.0506
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.9974	2,178.9974	0.0620		2,180.5463
Total	1.0822	2.6873	7.1447	0.0291	2.5160	0.0318	2.5478	0.6719	0.0299	0.7018		2,957.5425	2,957.5425	0.1035		2,960.1305

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	0.2049	1.7018	9.8769	0.0169		0.0244	0.0244		0.0244	0.0244	0.0000	1,582.6257	1,582.6257	0.3090		1,590.3506
Total	0.2049	1.7018	9.8769	0.0169		0.0244	0.0244		0.0244	0.0244	0.0000	1,582.6257	1,582.6257	0.3090		1,590.3506

Campo Construction Mitigated - San Diego County, Winter

3.8 O&M Building - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6400e-003	0.0850	0.0218	2.7000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		29.9895	29.9895	2.4400e-003		30.0506
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.9974	2,178.9974	0.0620		2,180.5463
Total	1.0822	2.6873	7.1447	0.0291	2.5160	0.0318	2.5478	0.6719	0.0299	0.7018		2,957.5425	2,957.5425	0.1035		2,960.1305

3.9 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.9163	4,065.9163	1.3150		4,098.7913
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5742	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.9163	4,065.9163	1.3150		4,098.7913

Campo Construction Mitigated - San Diego County, Winter

3.9 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.4486	1,198.4486	0.0341		1,199.3005
Total	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.4486	1,198.4486	0.0341		1,199.3005

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	0.5163	2.2372	31.8375	0.0420		0.0688	0.0688		0.0688	0.0688	0.0000	4,065.9163	4,065.9163	1.3150		4,098.7913
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3328	2.2372	31.8375	0.0420		0.0688	0.0688		0.0688	0.0688	0.0000	4,065.9163	4,065.9163	1.3150		4,098.7913

Campo Construction Mitigated - San Diego County, Winter

3.9 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.4486	1,198.4486	0.0341		1,199.3005
Total	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.4486	1,198.4486	0.0341		1,199.3005

3.10 Met Towers - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.6602	2,205.6602	0.3441		2,214.2622
Total	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.6602	2,205.6602	0.3441		2,214.2622

Campo Construction Mitigated - San Diego County, Winter

3.10 Met Towers - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0352	1.1332	0.2902	3.6500e-003	0.0901	4.4400e-003	0.0945	0.0247	4.2500e-003	0.0289		399.7599	399.7599	0.0326		400.5746
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	0.2001	0.1442	1.3204	4.3700e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		435.7995	435.7995	0.0124		436.1093
Total	0.3145	3.1586	2.1317	0.0150	0.7605	0.0238	0.7843	0.2072	0.0226	0.2298		1,584.1150	1,584.1150	0.0841		1,586.2174

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	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	0.0000	2,205.6602	2,205.6602	0.3441		2,214.2622
Total	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	0.0000	2,205.6602	2,205.6602	0.3441		2,214.2622

Campo Construction Mitigated - San Diego County, Winter

3.10 Met Towers - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0352	1.1332	0.2902	3.6500e-003	0.0901	4.4400e-003	0.0945	0.0247	4.2500e-003	0.0289		399.7599	399.7599	0.0326		400.5746
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	0.2001	0.1442	1.3204	4.3700e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		435.7995	435.7995	0.0124		436.1093
Total	0.3145	3.1586	2.1317	0.0150	0.7605	0.0238	0.7843	0.2072	0.0226	0.2298		1,584.1150	1,584.1150	0.0841		1,586.2174

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

Campo Construction Mitigated - 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	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Unmitigated	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Campo Construction Mitigated - San Diego County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Campo Construction Mitigated - 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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Construction Mitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Unmitigated	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

Campo Construction Mitigated - 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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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**Fire Pumps and Emergency Generators**

Campo Construction Mitigated - San Diego County, Winter

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

Campo Construction Unmitigated - San Diego County, Annual

Campo Construction Unmitigated

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	43.00	Acre	43.00	1,873,080.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Construction Unmitigated - San Diego County, Annual

Project Characteristics - Campo Construction Unmitigated. 2016 RPS for SDG&E. Minus Boulder Brush

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data from client

Off-road Equipment - Data provided by applicant

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by applicant.

Land Use Change - Data provided by bio report.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	112385	79200
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	55.00	40.00

Campo Construction Unmitigated - San Diego County, Annual

tblConstructionPhase	NumDays	740.00	25.00
tblGrading	AcresOfGrading	279.00	745.75
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	PhaseName		Clearing and Grading
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	43.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00

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tblTripsAndVMT	VendorTripNumber	307.00	8.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
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tblTripsAndVMT	WorkerTripNumber	35.00	72.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	25.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.2482	13.5652	7.0245	0.0209	3.7985	0.5527	4.3512	1.7754	0.5171	2.2925	0.0000	1,929.034 1	1,929.034 1	0.3014	0.0000	1,936.569 1
2020	2.4242	21.1215	15.7945	0.0412	3.0901	0.9457	4.0357	1.3661	0.8956	2.2616	0.0000	3,694.782 5	3,694.782 5	0.5235	0.0000	3,707.869 0
Maximum	2.4242	21.1215	15.7945	0.0412	3.7985	0.9457	4.3512	1.7754	0.8956	2.2925	0.0000	3,694.782 5	3,694.782 5	0.5235	0.0000	3,707.869 0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.2482	13.4367	7.0245	0.0209	3.7985	0.5527	4.3512	1.7754	0.5171	2.2925	0.0000	1,929.0330	1,929.0330	0.3014	0.0000	1,936.5679
2020	2.4242	21.1214	15.7945	0.0412	3.0901	0.9457	4.0357	1.3661	0.8956	2.2616	0.0000	3,694.7801	3,694.7801	0.5235	0.0000	3,707.8666
Maximum	2.4242	21.1214	15.7945	0.0412	3.7985	0.9457	4.3512	1.7754	0.8956	2.2925	0.0000	3,694.7801	3,694.7801	0.5235	0.0000	3,707.8666

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2019	10-31-2019	7.7695	7.6792
2	11-1-2019	1-31-2020	10.1717	10.1332
3	2-1-2020	4-30-2020	13.5648	13.5648
4	5-1-2020	7-31-2020	6.6210	6.6210
5	8-1-2020	9-30-2020	0.2111	0.2111
		Highest	13.5648	13.5648

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.1740	9.1900e-003	0.0243	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9076	12.2327	0.0230	2.5000e-004	12.8808

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.8592	3.8592	2.0000e-004	6.0000e-005	3.8809
Mobile	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Waste						0.0000	0.0000		0.0000	0.0000	0.2517	0.0000	0.2517	0.0149	0.0000	0.6236
Water						0.0000	0.0000		0.0000	0.0000	0.0734	0.6232	0.6966	7.5700e-003	1.9000e-004	0.9414
Total	0.1740	9.1900e-003	0.0243	9.0000e-005	6.9800e-003	1.5000e-004	7.1300e-003	1.8700e-003	1.4000e-004	2.0100e-003	0.3251	11.9076	12.2327	0.0230	2.5000e-004	12.8808

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2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 12,557.65 76
Total	- 12,557.65 76

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction Access Roads	Grading	9/29/2019	3/28/2020	5	130	
3	Substation and Switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
4	Wind Turbine Foundation Construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Construction of Underground Electrical Systems	Site Preparation	1/19/2020	6/20/2020	5	110	
6	O&M Building	Building Construction	2/2/2020	9/5/2020	5	155	
7	Wind Turbine Erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Paving	Paving	3/1/2020	4/25/2020	5	40	
9	Met Towers	Building Construction	6/7/2020	7/11/2020	5	25	

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Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 43****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
Clearing and Grading	Graders	3	8.00	187	0.41
Clearing and Grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and Grading	Scrapers	3	8.00	367	0.48
Construction Access Roads	Rubber Tired Dozers	7	8.00	247	0.40
Construction Access Roads	Scrapers	3	8.00	367	0.48
Substation and Switchyard	Air Compressors	1	8.00	78	0.48
Substation and Switchyard	Cranes	2	7.00	231	0.29
Substation and Switchyard	Generator Sets	6	8.00	84	0.74
Substation and Switchyard	Pumps	3	8.00	84	0.74
Substation and Switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Substation and Switchyard	Welders	2	8.00	46	0.45
Wind Turbine Foundation Construction	Air Compressors	3	8.00	78	0.48
Wind Turbine Foundation Construction	Generator Sets	3	8.00	84	0.74
Wind Turbine Foundation Construction	Pumps	1	8.00	84	0.74
Construction of Underground Electrical Systems	Rollers	1	4.00	80	0.38
Construction of Underground Electrical Systems	Rubber Tired Dozers	2	7.00	247	0.40
Construction of Underground Electrical Systems	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of Underground Electrical Systems	Trenchers	3	8.00	78	0.50

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O&M Building	Cranes	1	7.00	231	0.29
O&M Building	Generator Sets	1	8.00	84	0.74
O&M Building	Tractors/Loaders/Backhoes	1	7.00	97	0.37
O&M Building	Welders	1	8.00	46	0.45
Wind Turbine Erection	Air Compressors	2	8.00	78	0.48
Wind Turbine Erection	Cranes	19	7.00	231	0.29
Wind Turbine Erection	Generator Sets	3	8.00	84	0.74
Wind Turbine Erection	Pumps	2	8.00	84	0.74
Wind Turbine Erection	Welders	7	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	8	8.00	80	0.38
Met Towers	Cranes	1	7.00	231	0.29
Met Towers	Generator Sets	2	8.00	84	0.74
Met Towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Met Towers	Welders	1	8.00	46	0.45
Clearing and Grading	Crushing/Proc. Equipment	1	8.00	85	0.78

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing and Grading	14	72.00	108.00	734.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction Access Roads	10	120.00	0.00	22.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Substation and Switchyard	17	144.00	8.00	415.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Foundation Construction	7	168.00	20.00	3,046.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of Underground Electrical	10	240.00	12.00	368.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	120.00	4.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Erection	33	144.00	0.00	720.00	25.20	57.00	80.00	LD_Mix	HDT_Mix	HHDT
Paving	13	66.00	0.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Met Towers	5	24.00	4.00	43.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Clearing and Grading - 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	tons/yr										MT/yr					
Fugitive Dust					1.8889	0.0000	1.8889	0.8636	0.0000	0.8636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4445	4.9358	2.1186	4.3600e-003		0.2214	0.2214		0.2044	0.2044	0.0000	390.9139	390.9139	0.1193	0.0000	393.8959
Total	0.4445	4.9358	2.1186	4.3600e-003	1.8889	0.2214	2.1104	0.8636	0.2044	1.0681	0.0000	390.9139	390.9139	0.1193	0.0000	393.8959

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3.2 Clearing and Grading - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.1600e-003	0.2650	0.0621	7.9000e-004	0.0188	1.2000e-003	0.0200	5.1700e-003	1.1400e-003	6.3100e-003	0.0000	78.6149	78.6149	6.2700e-003	0.0000	78.7716
Vendor	0.0840	1.8370	0.4866	5.9200e-003	0.1729	0.0214	0.1943	0.0499	0.0204	0.0703	0.0000	574.9002	574.9002	0.0304	0.0000	575.6596
Worker	0.0173	0.0146	0.1355	4.2000e-004	0.0417	2.9000e-004	0.0420	0.0111	2.6000e-004	0.0114	0.0000	38.3515	38.3515	1.1700e-003	0.0000	38.3807
Total	0.1095	2.1166	0.6842	7.1300e-003	0.2335	0.0229	0.2563	0.0661	0.0218	0.0880	0.0000	691.8666	691.8666	0.0378	0.0000	692.8119

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.8889	0.0000	1.8889	0.8636	0.0000	0.8636	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4445	4.8073	2.1186	4.3600e-003		0.2214	0.2214		0.2044	0.2044	0.0000	390.9134	390.9134	0.1193	0.0000	393.8954
Total	0.4445	4.8073	2.1186	4.3600e-003	1.8889	0.2214	2.1104	0.8636	0.2044	1.0681	0.0000	390.9134	390.9134	0.1193	0.0000	393.8954

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3.2 Clearing and Grading - 2019**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	8.1600e-003	0.2650	0.0621	7.9000e-004	0.0188	1.2000e-003	0.0200	5.1700e-003	1.1400e-003	6.3100e-003	0.0000	78.6149	78.6149	6.2700e-003	0.0000	78.7716
Vendor	0.0840	1.8370	0.4866	5.9200e-003	0.1729	0.0214	0.1943	0.0499	0.0204	0.0703	0.0000	574.9002	574.9002	0.0304	0.0000	575.6596
Worker	0.0173	0.0146	0.1355	4.2000e-004	0.0417	2.9000e-004	0.0420	0.0111	2.6000e-004	0.0114	0.0000	38.3515	38.3515	1.1700e-003	0.0000	38.3807
Total	0.1095	2.1166	0.6842	7.1300e-003	0.2335	0.0229	0.2563	0.0661	0.0218	0.0880	0.0000	691.8666	691.8666	0.0378	0.0000	692.8119

3.3 Construction Access Roads - 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	tons/yr										MT/yr					
Fugitive Dust					1.4122	0.0000	1.4122	0.7763	0.0000	0.7763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3731	4.1293	1.8148	3.5200e-003		0.1889	0.1889		0.1738	0.1738	0.0000	316.5933	316.5933	0.1002	0.0000	319.0974
Total	0.3731	4.1293	1.8148	3.5200e-003	1.4122	0.1889	1.6011	0.7763	0.1738	0.9501	0.0000	316.5933	316.5933	0.1002	0.0000	319.0974

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3.3 Construction Access Roads - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	4.0900e-003	9.6000e-004	1.0000e-005	5.0000e-004	2.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	1.2144	1.2144	1.0000e-004	0.0000	1.2168
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	0.0312	0.0263	0.2440	7.6000e-004	0.0752	5.2000e-004	0.0757	0.0200	4.7000e-004	0.0204	0.0000	69.0739	69.0739	2.1000e-003	0.0000	69.1265
Total	0.0313	0.0304	0.2450	7.7000e-004	0.0757	5.4000e-004	0.0762	0.0201	4.9000e-004	0.0206	0.0000	70.2883	70.2883	2.2000e-003	0.0000	70.3433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4122	0.0000	1.4122	0.7763	0.0000	0.7763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3731	4.1293	1.8148	3.5200e-003		0.1889	0.1889		0.1738	0.1738	0.0000	316.5929	316.5929	0.1002	0.0000	319.0971
Total	0.3731	4.1293	1.8148	3.5200e-003	1.4122	0.1889	1.6011	0.7763	0.1738	0.9501	0.0000	316.5929	316.5929	0.1002	0.0000	319.0971

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3.3 Construction Access Roads - 2019**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	1.3000e-004	4.0900e-003	9.6000e-004	1.0000e-005	5.0000e-004	2.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.5000e-004	0.0000	1.2144	1.2144	1.0000e-004	0.0000	1.2168
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	0.0312	0.0263	0.2440	7.6000e-004	0.0752	5.2000e-004	0.0757	0.0200	4.7000e-004	0.0204	0.0000	69.0739	69.0739	2.1000e-003	0.0000	69.1265
Total	0.0313	0.0304	0.2450	7.7000e-004	0.0757	5.4000e-004	0.0762	0.0201	4.9000e-004	0.0206	0.0000	70.2883	70.2883	2.2000e-003	0.0000	70.3433

3.3 Construction Access Roads - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3279	0.0000	1.3279	0.7299	0.0000	0.7299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3319	3.6093	1.6159	3.3100e-003		0.1657	0.1657		0.1524	0.1524	0.0000	291.2625	291.2625	0.0942	0.0000	293.6175
Total	0.3319	3.6093	1.6159	3.3100e-003	1.3279	0.1657	1.4936	0.7299	0.1524	0.8823	0.0000	291.2625	291.2625	0.0942	0.0000	293.6175

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3.3 Construction Access Roads - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.5300e-003	8.9000e-004	1.0000e-005	4.9000e-004	1.0000e-005	5.1000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.1281	1.1281	9.0000e-005	0.0000	1.1304
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	0.0275	0.0224	0.2101	7.0000e-004	0.0707	4.8000e-004	0.0712	0.0188	4.4000e-004	0.0192	0.0000	62.8970	62.8970	1.7900e-003	0.0000	62.9418
Total	0.0276	0.0259	0.2110	7.1000e-004	0.0712	4.9000e-004	0.0717	0.0189	4.5000e-004	0.0194	0.0000	64.0251	64.0251	1.8800e-003	0.0000	64.0722

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3279	0.0000	1.3279	0.7299	0.0000	0.7299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3319	3.6093	1.6159	3.3100e-003		0.1657	0.1657		0.1524	0.1524	0.0000	291.2622	291.2622	0.0942	0.0000	293.6172
Total	0.3319	3.6093	1.6159	3.3100e-003	1.3279	0.1657	1.4936	0.7299	0.1524	0.8823	0.0000	291.2622	291.2622	0.0942	0.0000	293.6172

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3.3 Construction Access Roads - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	3.5300e-003	8.9000e-004	1.0000e-005	4.9000e-004	1.0000e-005	5.1000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.1281	1.1281	9.0000e-005	0.0000	1.1304
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	0.0275	0.0224	0.2101	7.0000e-004	0.0707	4.8000e-004	0.0712	0.0188	4.4000e-004	0.0192	0.0000	62.8970	62.8970	1.7900e-003	0.0000	62.9418
Total	0.0276	0.0259	0.2110	7.1000e-004	0.0712	4.9000e-004	0.0717	0.0189	4.5000e-004	0.0194	0.0000	64.0251	64.0251	1.8800e-003	0.0000	64.0722

3.4 Substation and Switchyard - 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	tons/yr										MT/yr					
Off-Road	0.2242	1.8932	1.6686	2.9000e-003		0.1104	0.1104		0.1081	0.1081	0.0000	249.3388	249.3388	0.0314	0.0000	250.1248
Total	0.2242	1.8932	1.6686	2.9000e-003		0.1104	0.1104		0.1081	0.1081	0.0000	249.3388	249.3388	0.0314	0.0000	250.1248

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3.4 Substation and Switchyard - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5500e-003	0.0502	0.0118	1.5000e-004	8.8900e-003	2.3000e-004	9.1100e-003	2.2900e-003	2.2000e-004	2.5000e-003	0.0000	14.8903	14.8903	1.1900e-003	0.0000	14.9199
Vendor	6.7200e-003	0.1471	0.0390	4.7000e-004	0.0138	1.7100e-003	0.0156	3.9900e-003	1.6400e-003	5.6300e-003	0.0000	46.0195	46.0195	2.4300e-003	0.0000	46.0803
Worker	0.0375	0.0316	0.2928	9.2000e-004	0.0902	6.2000e-004	0.0908	0.0240	5.7000e-004	0.0245	0.0000	82.8887	82.8887	2.5200e-003	0.0000	82.9518
Total	0.0457	0.2288	0.3436	1.5400e-003	0.1129	2.5600e-003	0.1155	0.0302	2.4300e-003	0.0327	0.0000	143.7984	143.7984	6.1400e-003	0.0000	143.9520

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2242	1.8932	1.6686	2.9000e-003		0.1104	0.1104		0.1081	0.1081	0.0000	249.3385	249.3385	0.0314	0.0000	250.1245
Total	0.2242	1.8932	1.6686	2.9000e-003		0.1104	0.1104		0.1081	0.1081	0.0000	249.3385	249.3385	0.0314	0.0000	250.1245

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3.4 Substation and Switchyard - 2019**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	1.5500e-003	0.0502	0.0118	1.5000e-004	8.8900e-003	2.3000e-004	9.1100e-003	2.2900e-003	2.2000e-004	2.5000e-003	0.0000	14.8903	14.8903	1.1900e-003	0.0000	14.9199
Vendor	6.7200e-003	0.1471	0.0390	4.7000e-004	0.0138	1.7100e-003	0.0156	3.9900e-003	1.6400e-003	5.6300e-003	0.0000	46.0195	46.0195	2.4300e-003	0.0000	46.0803
Worker	0.0375	0.0316	0.2928	9.2000e-004	0.0902	6.2000e-004	0.0908	0.0240	5.7000e-004	0.0245	0.0000	82.8887	82.8887	2.5200e-003	0.0000	82.9518
Total	0.0457	0.2288	0.3436	1.5400e-003	0.1129	2.5600e-003	0.1155	0.0302	2.4300e-003	0.0327	0.0000	143.7984	143.7984	6.1400e-003	0.0000	143.9520

3.4 Substation and Switchyard - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4000	3.4452	3.2707	5.7500e-003		0.1901	0.1901		0.1862	0.1862	0.0000	492.5721	492.5721	0.0594	0.0000	494.0567
Total	0.4000	3.4452	3.2707	5.7500e-003		0.1901	0.1901		0.1862	0.1862	0.0000	492.5721	492.5721	0.0594	0.0000	494.0567

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3.4 Substation and Switchyard - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8100e-003	0.0915	0.0230	2.9000e-004	9.7600e-003	3.5000e-004	0.0101	2.6000e-003	3.4000e-004	2.9400e-003	0.0000	29.2009	29.2009	2.3500e-003	0.0000	29.2597
Vendor	0.0104	0.2516	0.0686	9.3000e-004	0.0275	2.1700e-003	0.0296	7.9200e-003	2.0700e-003	9.9900e-003	0.0000	90.5295	90.5295	4.6900e-003	0.0000	90.6467
Worker	0.0697	0.0566	0.5323	1.7600e-003	0.1791	1.2100e-003	0.1803	0.0476	1.1100e-003	0.0487	0.0000	159.3392	159.3392	4.5400e-003	0.0000	159.4526
Total	0.0829	0.3997	0.6239	2.9800e-003	0.2163	3.7300e-003	0.2200	0.0581	3.5200e-003	0.0616	0.0000	279.0696	279.0696	0.0116	0.0000	279.3589

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4000	3.4452	3.2707	5.7500e-003		0.1901	0.1901		0.1862	0.1862	0.0000	492.5716	492.5716	0.0594	0.0000	494.0561
Total	0.4000	3.4452	3.2707	5.7500e-003		0.1901	0.1901		0.1862	0.1862	0.0000	492.5716	492.5716	0.0594	0.0000	494.0561

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3.4 Substation and Switchyard - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8100e-003	0.0915	0.0230	2.9000e-004	9.7600e-003	3.5000e-004	0.0101	2.6000e-003	3.4000e-004	2.9400e-003	0.0000	29.2009	29.2009	2.3500e-003	0.0000	29.2597
Vendor	0.0104	0.2516	0.0686	9.3000e-004	0.0275	2.1700e-003	0.0296	7.9200e-003	2.0700e-003	9.9900e-003	0.0000	90.5295	90.5295	4.6900e-003	0.0000	90.6467
Worker	0.0697	0.0566	0.5323	1.7600e-003	0.1791	1.2100e-003	0.1803	0.0476	1.1100e-003	0.0487	0.0000	159.3392	159.3392	4.5400e-003	0.0000	159.4526
Total	0.0829	0.3997	0.6239	2.9800e-003	0.2163	3.7300e-003	0.2200	0.0581	3.5200e-003	0.0616	0.0000	279.0696	279.0696	0.0116	0.0000	279.3589

3.5 Wind Turbine Foundation Construction - 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	tons/yr										MT/yr					
Off-Road	0.0100	0.0788	0.0781	1.3000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077
Total	0.0100	0.0788	0.0781	1.3000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077

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3.5 Wind Turbine Foundation Construction - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3900e-003	0.1100	0.0258	3.3000e-004	0.0607	5.0000e-004	0.0612	0.0151	4.7000e-004	0.0156	0.0000	32.6241	32.6241	2.6000e-003	0.0000	32.6892
Vendor	1.7600e-003	0.0384	0.0102	1.2000e-004	3.6200e-003	4.5000e-004	4.0600e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.0200	12.0200	6.4000e-004	0.0000	12.0359
Worker	4.5600e-003	3.8500e-003	0.0357	1.1000e-004	0.0110	8.0000e-005	0.0111	2.9200e-003	7.0000e-005	2.9900e-003	0.0000	10.1033	10.1033	3.1000e-004	0.0000	10.1110
Total	9.7100e-003	0.1522	0.0716	5.6000e-004	0.0753	1.0300e-003	0.0763	0.0191	9.7000e-004	0.0201	0.0000	54.7475	54.7475	3.5500e-003	0.0000	54.8361

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0100	0.0788	0.0781	1.3000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077
Total	0.0100	0.0788	0.0781	1.3000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077

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3.5 Wind Turbine Foundation Construction - 2019**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	3.3900e-003	0.1100	0.0258	3.3000e-004	0.0607	5.0000e-004	0.0612	0.0151	4.7000e-004	0.0156	0.0000	32.6241	32.6241	2.6000e-003	0.0000	32.6892
Vendor	1.7600e-003	0.0384	0.0102	1.2000e-004	3.6200e-003	4.5000e-004	4.0600e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.0200	12.0200	6.4000e-004	0.0000	12.0359
Worker	4.5600e-003	3.8500e-003	0.0357	1.1000e-004	0.0110	8.0000e-005	0.0111	2.9200e-003	7.0000e-005	2.9900e-003	0.0000	10.1033	10.1033	3.1000e-004	0.0000	10.1110
Total	9.7100e-003	0.1522	0.0716	5.6000e-004	0.0753	1.0300e-003	0.0763	0.0191	9.7000e-004	0.0201	0.0000	54.7475	54.7475	3.5500e-003	0.0000	54.8361

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0816	0.6521	0.6995	1.2000e-003		0.0391	0.0391		0.0391	0.0391	0.0000	103.3871	103.3871	6.5600e-003	0.0000	103.5512
Total	0.0816	0.6521	0.6995	1.2000e-003		0.0391	0.0391		0.0391	0.0391	0.0000	103.3871	103.3871	6.5600e-003	0.0000	103.5512

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3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0279	0.9085	0.2284	2.9200e-003	0.0762	3.5300e-003	0.0797	0.0208	3.3700e-003	0.0241	0.0000	290.0670	290.0670	0.0234	0.0000	290.6514
Vendor	0.0123	0.2979	0.0813	1.1000e-003	0.0325	2.5600e-003	0.0351	9.3800e-003	2.4500e-003	0.0118	0.0000	107.2060	107.2060	5.5500e-003	0.0000	107.3447
Worker	0.0385	0.0313	0.2941	9.7000e-004	0.0990	6.7000e-004	0.0996	0.0263	6.2000e-004	0.0269	0.0000	88.0559	88.0559	2.5100e-003	0.0000	88.1185
Total	0.0787	1.2377	0.6038	4.9900e-003	0.2077	6.7600e-003	0.2144	0.0564	6.4400e-003	0.0629	0.0000	485.3289	485.3289	0.0314	0.0000	486.1147

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0816	0.6521	0.6995	1.2000e-003		0.0391	0.0391		0.0391	0.0391	0.0000	103.3870	103.3870	6.5600e-003	0.0000	103.5511
Total	0.0816	0.6521	0.6995	1.2000e-003		0.0391	0.0391		0.0391	0.0391	0.0000	103.3870	103.3870	6.5600e-003	0.0000	103.5511

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3.5 Wind Turbine Foundation Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0279	0.9085	0.2284	2.9200e-003	0.0762	3.5300e-003	0.0797	0.0208	3.3700e-003	0.0241	0.0000	290.0670	290.0670	0.0234	0.0000	290.6514
Vendor	0.0123	0.2979	0.0813	1.1000e-003	0.0325	2.5600e-003	0.0351	9.3800e-003	2.4500e-003	0.0118	0.0000	107.2060	107.2060	5.5500e-003	0.0000	107.3447
Worker	0.0385	0.0313	0.2941	9.7000e-004	0.0990	6.7000e-004	0.0996	0.0263	6.2000e-004	0.0269	0.0000	88.0559	88.0559	2.5100e-003	0.0000	88.1185
Total	0.0787	1.2377	0.6038	4.9900e-003	0.2077	6.7600e-003	0.2144	0.0564	6.4400e-003	0.0629	0.0000	485.3289	485.3289	0.0314	0.0000	486.1147

3.6 Construction of Underground Electrical Systems - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5796	0.0000	0.5796	0.3186	0.0000	0.3186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2250	2.2375	1.3863	2.1300e-003		0.1333	0.1333		0.1226	0.1226	0.0000	187.5256	187.5256	0.0607	0.0000	189.0419
Total	0.2250	2.2375	1.3863	2.1300e-003	0.5796	0.1333	0.7129	0.3186	0.1226	0.4412	0.0000	187.5256	187.5256	0.0607	0.0000	189.0419

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3.6 Construction of Underground Electrical Systems - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7400e-003	0.1220	0.0307	3.9000e-004	9.4400e-003	4.7000e-004	9.9100e-003	2.5900e-003	4.5000e-004	3.0400e-003	0.0000	38.9380	38.9380	3.1400e-003	0.0000	39.0165
Vendor	0.0129	0.3121	0.0852	1.1500e-003	0.0341	2.6900e-003	0.0368	9.8300e-003	2.5700e-003	0.0124	0.0000	112.3111	112.3111	5.8100e-003	0.0000	112.4564
Worker	0.0961	0.0781	0.7337	2.4300e-003	0.2468	1.6700e-003	0.2485	0.0656	1.5300e-003	0.0671	0.0000	219.6405	219.6405	6.2500e-003	0.0000	219.7968
Total	0.1127	0.5121	0.8495	3.9700e-003	0.2904	4.8300e-003	0.2952	0.0780	4.5500e-003	0.0825	0.0000	370.8895	370.8895	0.0152	0.0000	371.2696

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5796	0.0000	0.5796	0.3186	0.0000	0.3186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2250	2.2375	1.3863	2.1300e-003		0.1333	0.1333		0.1226	0.1226	0.0000	187.5254	187.5254	0.0607	0.0000	189.0416
Total	0.2250	2.2375	1.3863	2.1300e-003	0.5796	0.1333	0.7129	0.3186	0.1226	0.4412	0.0000	187.5254	187.5254	0.0607	0.0000	189.0416

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3.6 Construction of Underground Electrical Systems - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7400e-003	0.1220	0.0307	3.9000e-004	9.4400e-003	4.7000e-004	9.9100e-003	2.5900e-003	4.5000e-004	3.0400e-003	0.0000	38.9380	38.9380	3.1400e-003	0.0000	39.0165
Vendor	0.0129	0.3121	0.0852	1.1500e-003	0.0341	2.6900e-003	0.0368	9.8300e-003	2.5700e-003	0.0124	0.0000	112.3111	112.3111	5.8100e-003	0.0000	112.4564
Worker	0.0961	0.0781	0.7337	2.4300e-003	0.2468	1.6700e-003	0.2485	0.0656	1.5300e-003	0.0671	0.0000	219.6405	219.6405	6.2500e-003	0.0000	219.7968
Total	0.1127	0.5121	0.8495	3.9700e-003	0.2904	4.8300e-003	0.2952	0.0780	4.5500e-003	0.0825	0.0000	370.8895	370.8895	0.0152	0.0000	371.2696

3.7 O&M Building - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.8997	0.7222	1.3100e-003		0.0460	0.0460		0.0441	0.0441	0.0000	111.2694	111.2694	0.0217	0.0000	111.8125
Total	0.1024	0.8997	0.7222	1.3100e-003		0.0460	0.0460		0.0441	0.0441	0.0000	111.2694	111.2694	0.0217	0.0000	111.8125

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3.7 O&M Building - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.6300e-003	1.6700e-003	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	2.1162	2.1162	1.7000e-004	0.0000	2.1205
Vendor	6.0600e-003	0.1466	0.0400	5.4000e-004	0.0160	1.2600e-003	0.0173	4.6200e-003	1.2100e-003	5.8200e-003	0.0000	52.7522	52.7522	2.7300e-003	0.0000	52.8204
Worker	0.0677	0.0550	0.5169	1.7100e-003	0.1739	1.1700e-003	0.1751	0.0462	1.0800e-003	0.0473	0.0000	154.7467	154.7467	4.4100e-003	0.0000	154.8568
Total	0.0739	0.2082	0.5586	2.2700e-003	0.1904	2.4600e-003	0.1929	0.0510	2.3100e-003	0.0533	0.0000	209.6151	209.6151	7.3100e-003	0.0000	209.7977

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.8997	0.7222	1.3100e-003		0.0460	0.0460		0.0441	0.0441	0.0000	111.2692	111.2692	0.0217	0.0000	111.8124
Total	0.1024	0.8997	0.7222	1.3100e-003		0.0460	0.0460		0.0441	0.0441	0.0000	111.2692	111.2692	0.0217	0.0000	111.8124

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3.7 O&M Building - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	6.6300e-003	1.6700e-003	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	2.1162	2.1162	1.7000e-004	0.0000	2.1205
Vendor	6.0600e-003	0.1466	0.0400	5.4000e-004	0.0160	1.2600e-003	0.0173	4.6200e-003	1.2100e-003	5.8200e-003	0.0000	52.7522	52.7522	2.7300e-003	0.0000	52.8204
Worker	0.0677	0.0550	0.5169	1.7100e-003	0.1739	1.1700e-003	0.1751	0.0462	1.0800e-003	0.0473	0.0000	154.7467	154.7467	4.4100e-003	0.0000	154.8568
Total	0.0739	0.2082	0.5586	2.2700e-003	0.1904	2.4600e-003	0.1929	0.0510	2.3100e-003	0.0533	0.0000	209.6151	209.6151	7.3100e-003	0.0000	209.7977

3.8 Wind Turbine Erection - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.6942	6.7440	3.9084	8.5000e-003		0.3081	0.3081		0.2919	0.2919	0.0000	728.8647	728.8647	0.1725	0.0000	733.1770
Total	0.6942	6.7440	3.9084	8.5000e-003		0.3081	0.3081		0.2919	0.2919	0.0000	728.8647	728.8647	0.1725	0.0000	733.1770

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3.8 Wind Turbine Erection - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5500e-003	0.3067	0.0782	1.0100e-003	0.0246	1.2300e-003	0.0258	6.7600e-003	1.1700e-003	7.9300e-003	0.0000	100.3921	100.3921	7.9600e-003	0.0000	100.5911
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	0.0576	0.0468	0.4402	1.4600e-003	0.1481	1.0000e-003	0.1491	0.0393	9.2000e-004	0.0403	0.0000	131.7843	131.7843	3.7500e-003	0.0000	131.8781
Total	0.0672	0.3535	0.5184	2.4700e-003	0.1727	2.2300e-003	0.1749	0.0461	2.0900e-003	0.0482	0.0000	232.1764	232.1764	0.0117	0.0000	232.4692

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.6942	6.7440	3.9084	8.5000e-003		0.3081	0.3081		0.2919	0.2919	0.0000	728.8638	728.8638	0.1725	0.0000	733.1761
Total	0.6942	6.7440	3.9084	8.5000e-003		0.3081	0.3081		0.2919	0.2919	0.0000	728.8638	728.8638	0.1725	0.0000	733.1761

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3.8 Wind Turbine Erection - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.5500e-003	0.3067	0.0782	1.0100e-003	0.0246	1.2300e-003	0.0258	6.7600e-003	1.1700e-003	7.9300e-003	0.0000	100.3921	100.3921	7.9600e-003	0.0000	100.5911
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	0.0576	0.0468	0.4402	1.4600e-003	0.1481	1.0000e-003	0.1491	0.0393	9.2000e-004	0.0403	0.0000	131.7843	131.7843	3.7500e-003	0.0000	131.8781
Total	0.0672	0.3535	0.5184	2.4700e-003	0.1727	2.2300e-003	0.1749	0.0461	2.0900e-003	0.0482	0.0000	232.1764	232.1764	0.0117	0.0000	232.4692

3.9 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0552	0.5605	0.5637	8.4000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	73.7707	73.7707	0.0239	0.0000	74.3672
Paving	0.0563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1115	0.5605	0.5637	8.4000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	73.7707	73.7707	0.0239	0.0000	74.3672

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3.9 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797
Total	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0552	0.5605	0.5637	8.4000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	73.7707	73.7707	0.0239	0.0000	74.3671
Paving	0.0563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1115	0.5605	0.5637	8.4000e-004		0.0325	0.0325		0.0299	0.0299	0.0000	73.7707	73.7707	0.0239	0.0000	74.3671

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3.9 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797
Total	9.6100e-003	7.8100e-003	0.0734	2.4000e-004	0.0247	1.7000e-004	0.0249	6.5600e-003	1.5000e-004	6.7100e-003	0.0000	21.9641	21.9641	6.3000e-004	0.0000	21.9797

3.10 Met Towers - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0215	0.1886	0.1628	2.9000e-004		9.8800e-003	9.8800e-003		9.5700e-003	9.5700e-003	0.0000	25.0118	25.0118	3.9000e-003	0.0000	25.1093
Total	0.0215	0.1886	0.1628	2.9000e-004		9.8800e-003	9.8800e-003		9.5700e-003	9.5700e-003	0.0000	25.0118	25.0118	3.9000e-003	0.0000	25.1093

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3.10 Met Towers - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0143	3.5800e-003	5.0000e-005	1.1000e-003	6.0000e-005	1.1600e-003	3.0000e-004	5.0000e-005	3.6000e-004	0.0000	4.5498	4.5498	3.7000e-004	0.0000	4.5590
Vendor	9.8000e-004	0.0236	6.4500e-003	9.0000e-005	2.5800e-003	2.0000e-004	2.7900e-003	7.4000e-004	1.9000e-004	9.4000e-004	0.0000	8.5084	8.5084	4.4000e-004	0.0000	8.5194
Worker	2.1800e-003	1.7700e-003	0.0167	6.0000e-005	5.6100e-003	4.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.9918	4.9918	1.4000e-004	0.0000	4.9954
Total	3.6000e-003	0.0397	0.0267	2.0000e-004	9.2900e-003	3.0000e-004	9.6000e-003	2.5300e-003	2.7000e-004	2.8200e-003	0.0000	18.0501	18.0501	9.5000e-004	0.0000	18.0738

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0215	0.1886	0.1628	2.9000e-004		9.8800e-003	9.8800e-003		9.5700e-003	9.5700e-003	0.0000	25.0117	25.0117	3.9000e-003	0.0000	25.1093
Total	0.0215	0.1886	0.1628	2.9000e-004		9.8800e-003	9.8800e-003		9.5700e-003	9.5700e-003	0.0000	25.0117	25.0117	3.9000e-003	0.0000	25.1093

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3.10 Met Towers - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0143	3.5800e-003	5.0000e-005	1.1000e-003	6.0000e-005	1.1600e-003	3.0000e-004	5.0000e-005	3.6000e-004	0.0000	4.5498	4.5498	3.7000e-004	0.0000	4.5590
Vendor	9.8000e-004	0.0236	6.4500e-003	9.0000e-005	2.5800e-003	2.0000e-004	2.7900e-003	7.4000e-004	1.9000e-004	9.4000e-004	0.0000	8.5084	8.5084	4.4000e-004	0.0000	8.5194
Worker	2.1800e-003	1.7700e-003	0.0167	6.0000e-005	5.6100e-003	4.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.9918	4.9918	1.4000e-004	0.0000	4.9954
Total	3.6000e-003	0.0397	0.0267	2.0000e-004	9.2900e-003	3.0000e-004	9.6000e-003	2.5300e-003	2.7000e-004	2.8200e-003	0.0000	18.0501	18.0501	9.5000e-004	0.0000	18.0738

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

Campo Construction Unmitigated - 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	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340
Unmitigated	1.7800e-003	8.2000e-003	0.0230	8.0000e-005	6.9800e-003	7.0000e-005	7.0500e-003	1.8700e-003	6.0000e-005	1.9300e-003	0.0000	7.4244	7.4244	3.8000e-004	0.0000	7.4340

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Campo Construction Unmitigated - San Diego County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.7818	2.7818	1.8000e-004	4.0000e-005	2.7971
NaturalGas Mitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
NaturalGas Unmitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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					
Industrial Park	20190	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0774	1.0774	2.0000e-005	2.0000e-005	1.0838

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	13440	2.7818	1.8000e-004	4.0000e-005	2.7971
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		2.7818	1.8000e-004	4.0000e-005	2.7971

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Unmitigated	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Total	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004
Total	0.1721	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.9000e-004	7.9000e-004	0.0000	0.0000	8.4000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Campo Construction Unmitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6966	7.5700e-003	1.9000e-004	0.9414
Unmitigated	0.6966	7.5700e-003	1.9000e-004	0.9414

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

Campo Construction Unmitigated - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0.23125 / 0	0.6966	7.5700e-003	1.9000e-004	0.9414
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.6966	7.5700e-003	1.9000e-004	0.9414

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2517	0.0149	0.0000	0.6236
Unmitigated	0.2517	0.0149	0.0000	0.6236

Campo Construction Unmitigated - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.2517	0.0149	0.0000	0.6236

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	1.24	0.2517	0.0149	0.0000	0.6236
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.2517	0.0149	0.0000	0.6236

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Campo Construction Unmitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 12,557.65 76	0.0000	0.0000	- 12,557.65 76

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	24.26 / 0	-104.5606	0.0000	0.0000	-104.5606
Scrub	698.99 / 0	- 9,995.557 0	0.0000	0.0000	- 9,995.557 0
Trees	22.14 / 0	- 2,457.540 0	0.0000	0.0000	- 2,457.540 0
Wetlands	0.36 / 0	0.0000	0.0000	0.0000	0.0000
Total		- 12,557.65 76	0.0000	0.0000	- 12,557.65 76

Campo Construction Unmitigated - San Diego County, Summer

Campo Construction Unmitigated

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	43.00	Acre	43.00	1,873,080.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Construction Unmitigated - San Diego County, Summer

Project Characteristics - Campo Construction Unmitigated. 2016 RPS for SDG&E. Minus Boulder Brush

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data from client

Off-road Equipment - Data provided by applicant

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by applicant.

Land Use Change - Data provided by bio report.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	112385	79200
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	55.00	40.00

Campo Construction Unmitigated - San Diego County, Summer

tblConstructionPhase	NumDays	740.00	25.00
tblGrading	AcresOfGrading	279.00	745.75
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	PhaseName		Clearing and Grading
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

Campo Construction Unmitigated - San Diego County, Summer

tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	43.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00

Campo Construction Unmitigated - San Diego County, Summer

tblTripsAndVMT	VendorTripNumber	307.00	8.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	35.00	72.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	25.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00

2.0 Emissions Summary

Campo Construction Unmitigated - San Diego County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	37.9167	412.4927	213.5816	0.6356	116.5414	16.9055	133.4469	54.7380	15.7997	70.5376	0.0000	64,565.4907	64,565.4907	10.1949	0.0000	64,820.3619
2020	51.8560	452.6212	332.1825	0.8774	77.4803	20.0584	97.5387	35.6108	18.9100	54.5208	0.0000	87,183.7714	87,183.7714	12.8663	0.0000	87,505.4285
Maximum	51.8560	452.6212	332.1825	0.8774	116.5414	20.0584	133.4469	54.7380	18.9100	70.5376	0.0000	87,183.7714	87,183.7714	12.8663	0.0000	87,505.4285

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	37.9167	408.3486	213.5816	0.6356	116.5414	16.9055	133.4469	54.7380	15.7997	70.5376	0.0000	64,565.4907	64,565.4907	10.1949	0.0000	64,820.3619
2020	51.8560	452.6212	332.1825	0.8774	77.4803	20.0584	97.5387	35.6108	18.9100	54.5208	0.0000	87,183.7714	87,183.7714	12.8663	0.0000	87,505.4285
Maximum	51.8560	452.6212	332.1825	0.8774	116.5414	20.0584	133.4469	54.7380	18.9100	70.5376	0.0000	87,183.7714	87,183.7714	12.8663	0.0000	87,505.4285

[illegible]

Campo Construction Unmitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.9568	0.0611	0.1771	6.2000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		66.6189	66.6189	3.1600e-003	1.2000e-004	66.7333

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Total	0.9568	0.0611	0.1771	6.2000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		66.6189	66.6189	3.1600e-003	1.2000e-004	66.7333

Campo Construction Unmitigated - 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	Clearing and Grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction Access Roads	Grading	9/29/2019	3/28/2020	5	130	
3	Substation and Switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
4	Wind Turbine Foundation Construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Construction of Underground Electrical Systems	Site Preparation	1/19/2020	6/20/2020	5	110	
6	O&M Building	Building Construction	2/2/2020	9/5/2020	5	155	
7	Wind Turbine Erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Paving	Paving	3/1/2020	4/25/2020	5	40	
9	Met Towers	Building Construction	6/7/2020	7/11/2020	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43

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
Clearing and Grading	Graders	3	8.00	187	0.41

Campo Construction Unmitigated - San Diego County, Summer

Clearing and Grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and Grading	Scrapers	3	8.00	367	0.48
Construction Access Roads	Rubber Tired Dozers	7	8.00	247	0.40
Construction Access Roads	Scrapers	3	8.00	367	0.48
Substation and Switchyard	Air Compressors	1	8.00	78	0.48
Substation and Switchyard	Cranes	2	7.00	231	0.29
Substation and Switchyard	Generator Sets	6	8.00	84	0.74
Substation and Switchyard	Pumps	3	8.00	84	0.74
Substation and Switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Substation and Switchyard	Welders	2	8.00	46	0.45
Wind Turbine Foundation Construction	Air Compressors	3	8.00	78	0.48
Wind Turbine Foundation Construction	Generator Sets	3	8.00	84	0.74
Wind Turbine Foundation Construction	Pumps	1	8.00	84	0.74
Construction of Underground Electrical Systems	Rollers	1	4.00	80	0.38
Construction of Underground Electrical Systems	Rubber Tired Dozers	2	7.00	247	0.40
Construction of Underground Electrical Systems	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of Underground Electrical Systems	Trenchers	3	8.00	78	0.50
O&M Building	Cranes	1	7.00	231	0.29
O&M Building	Generator Sets	1	8.00	84	0.74
O&M Building	Tractors/Loaders/Backhoes	1	7.00	97	0.37
O&M Building	Welders	1	8.00	46	0.45
Wind Turbine Erection	Air Compressors	2	8.00	78	0.48
Wind Turbine Erection	Cranes	19	7.00	231	0.29
Wind Turbine Erection	Generator Sets	3	8.00	84	0.74
Wind Turbine Erection	Pumps	2	8.00	84	0.74
Wind Turbine Erection	Welders	7	8.00	46	0.45

Campo Construction Unmitigated - San Diego County, Summer

Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	8	8.00	80	0.38
Met Towers	Cranes	1	7.00	231	0.29
Met Towers	Generator Sets	2	8.00	84	0.74
Met Towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Met Towers	Welders	1	8.00	46	0.45
Clearing and Grading	Crushing/Proc. Equipment	1	8.00	85	0.78

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
Clearing and Grading	14	72.00	108.00	734.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction Access Roads	10	120.00	0.00	22.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Substation and Switchyard	17	144.00	8.00	415.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Foundation Construction	7	168.00	20.00	3,046.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of Underground Electrical	10	240.00	12.00	368.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	120.00	4.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Erection	33	144.00	0.00	720.00	25.20	57.00	80.00	LD_Mix	HDT_Mix	HHDT
Paving	13	66.00	0.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Met Towers	5	24.00	4.00	43.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Campo Construction Unmitigated - San Diego County, Summer

3.2 Clearing and Grading - 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					
Fugitive Dust					60.9326	0.0000	60.9326	27.8592	0.0000	27.8592			0.0000			0.0000
Off-Road	14.3396	159.2198	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943		13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	14.3396	159.2198	68.3433	0.1406	60.9326	7.1432	68.0758	27.8592	6.5943	34.4534		13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2622	8.2937	1.9878	0.0257	0.6201	0.0384	0.6585	0.1699	0.0368	0.2067		2,802.665 3	2,802.665 3	0.2215		2,808.203 0
Vendor	2.6977	57.3895	15.6048	0.1913	5.6895	0.6885	6.3779	1.6358	0.6586	2.2944		20,476.64 14	20,476.64 14	1.0744		20,503.50 21
Worker	0.5434	0.4268	4.7424	0.0144	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,439.127 9	1,439.127 9	0.0440		1,440.228 2
Total	3.5033	66.1099	22.3350	0.2314	7.6887	0.7361	8.4248	2.1714	0.7039	2.8753		24,718.43 46	24,718.43 46	1.3400		24,751.93 33

Campo Construction Unmitigated - San Diego County, Summer

3.2 Clearing and Grading - 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					
Fugitive Dust					60.9326	0.0000	60.9326	27.8592	0.0000	27.8592			0.0000			0.0000
Off-Road	14.3396	155.0757	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943	0.0000	13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	14.3396	155.0757	68.3433	0.1406	60.9326	7.1432	68.0758	27.8592	6.5943	34.4534	0.0000	13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2622	8.2937	1.9878	0.0257	0.6201	0.0384	0.6585	0.1699	0.0368	0.2067		2,802.665 3	2,802.665 3	0.2215		2,808.203 0
Vendor	2.6977	57.3895	15.6048	0.1913	5.6895	0.6885	6.3779	1.6358	0.6586	2.2944		20,476.64 14	20,476.64 14	1.0744		20,503.50 21
Worker	0.5434	0.4268	4.7424	0.0144	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,439.127 9	1,439.127 9	0.0440		1,440.228 2
Total	3.5033	66.1099	22.3350	0.2314	7.6887	0.7361	8.4248	2.1714	0.7039	2.8753		24,718.43 46	24,718.43 46	1.3400		24,751.93 33

Campo Construction Unmitigated - San Diego County, Summer

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	11.1379	123.2625	54.1730	0.1051		5.6391	5.6391		5.1880	5.1880		10,417.44 29	10,417.44 29	3.2960		10,499.84 21
Total	11.1379	123.2625	54.1730	0.1051	42.1546	5.6391	47.7937	23.1716	5.1880	28.3596		10,417.44 29	10,417.44 29	3.2960		10,499.84 21

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	3.7500e-003	0.1186	0.0284	3.7000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5000e-003		40.0633	40.0633	3.1700e-003		40.1424
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	0.9057	0.7113	7.9039	0.0241	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,398.546 5	2,398.546 5	0.0734		2,400.380 3
Total	0.9095	0.8299	7.9324	0.0244	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,438.609 7	2,438.609 7	0.0765		2,440.522 7

Campo Construction Unmitigated - San Diego County, Summer

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	11.1379	123.2625	54.1730	0.1051		5.6391	5.6391		5.1880	5.1880	0.0000	10,417.44 29	10,417.44 29	3.2960		10,499.84 21
Total	11.1379	123.2625	54.1730	0.1051	42.1546	5.6391	47.7937	23.1716	5.1880	28.3596	0.0000	10,417.44 29	10,417.44 29	3.2960		10,499.84 21

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	3.7500e-003	0.1186	0.0284	3.7000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5000e-003		40.0633	40.0633	3.1700e-003		40.1424
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	0.9057	0.7113	7.9039	0.0241	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,398.546 5	2,398.546 5	0.0734		2,400.380 3
Total	0.9095	0.8299	7.9324	0.0244	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,438.609 7	2,438.609 7	0.0765		2,440.522 7

Campo Construction Unmitigated - San Diego County, Summer

3.3 Construction Access Roads - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	10.5351	114.5820	51.2971	0.1052		5.2599	5.2599		4.8391	4.8391		10,192.44 29	10,192.44 29	3.2964		10,274.85 40
Total	10.5351	114.5820	51.2971	0.1052	42.1546	5.2599	47.4145	23.1716	4.8391	28.0107		10,192.44 29	10,192.44 29	3.2964		10,274.85 40

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	3.4300e-003	0.1089	0.0280	3.6000e-004	0.0160	4.3000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.5810	39.5810	3.1600e-003		39.6601
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	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.762 0	2,322.762 0	0.0665		2,324.424 1
Total	0.8517	0.7516	7.2764	0.0237	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,362.343 0	2,362.343 0	0.0696		2,364.084 1

Campo Construction Unmitigated - San Diego County, Summer

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	10.5351	114.5820	51.2971	0.1052		5.2599	5.2599		4.8391	4.8391	0.0000	10,192.44 29	10,192.44 29	3.2964		10,274.85 40
Total	10.5351	114.5820	51.2971	0.1052	42.1546	5.2599	47.4145	23.1716	4.8391	28.0107	0.0000	10,192.44 29	10,192.44 29	3.2964		10,274.85 40

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	3.4300e-003	0.1089	0.0280	3.6000e-004	0.0160	4.3000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.5810	39.5810	3.1600e-003		39.6601
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	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.762 0	2,322.762 0	0.0665		2,324.424 1
Total	0.8517	0.7516	7.2764	0.0237	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,362.343 0	2,362.343 0	0.0696		2,364.084 1

Campo Construction Unmitigated - San Diego County, Summer

3.4 Substation and Switchyard - 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	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099

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	0.0460	1.4537	0.3484	4.5000e-003	0.2721	6.7300e-003	0.2788	0.0699	6.4400e-003	0.0763		491.2301	491.2301	0.0388		492.2007
Vendor	0.1998	4.2511	1.1559	0.0142	0.4214	0.0510	0.4724	0.1212	0.0488	0.1700		1,516.7883	1,516.7883	0.0796		1,518.7779
Worker	1.0869	0.8536	9.4847	0.0289	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,878.2558	2,878.2558	0.0880		2,880.4564
Total	1.3327	6.5583	10.9890	0.0476	3.4518	0.0762	3.5280	0.9224	0.0722	0.9947		4,886.2741	4,886.2741	0.2064		4,891.4350

Campo Construction Unmitigated - San Diego County, Summer

3.4 Substation and Switchyard - 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	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099

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	0.0460	1.4537	0.3484	4.5000e-003	0.2721	6.7300e-003	0.2788	0.0699	6.4400e-003	0.0763		491.2301	491.2301	0.0388		492.2007
Vendor	0.1998	4.2511	1.1559	0.0142	0.4214	0.0510	0.4724	0.1212	0.0488	0.1700		1,516.7883	1,516.7883	0.0796		1,518.7779
Worker	1.0869	0.8536	9.4847	0.0289	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,878.2558	2,878.2558	0.0880		2,880.4564
Total	1.3327	6.5583	10.9890	0.0476	3.4518	0.0762	3.5280	0.9224	0.0722	0.9947		4,886.2741	4,886.2741	0.2064		4,891.4350

Campo Construction Unmitigated - San Diego County, Summer

3.4 Substation and Switchyard - 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	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378
Total	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378

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	0.0420	1.3347	0.3433	4.4300e-003	0.1502	5.3200e-003	0.1555	0.0400	5.0900e-003	0.0451		485.3170	485.3170	0.0388		486.2866
Vendor	0.1557	3.6657	1.0261	0.0140	0.4214	0.0325	0.4540	0.1212	0.0311	0.1523		1,503.1735	1,503.1735	0.0773		1,505.1052
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.3144	2,787.3144	0.0798		2,789.3089
Total	1.2157	5.7716	10.0675	0.0464	3.3299	0.0560	3.3859	0.8925	0.0530	0.9455		4,775.8049	4,775.8049	0.1958		4,780.7007

Campo Construction Unmitigated - San Diego County, Summer

3.4 Substation and Switchyard - 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	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378
Total	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378

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	0.0420	1.3347	0.3433	4.4300e-003	0.1502	5.3200e-003	0.1555	0.0400	5.0900e-003	0.0451		485.3170	485.3170	0.0388		486.2866
Vendor	0.1557	3.6657	1.0261	0.0140	0.4214	0.0325	0.4540	0.1212	0.0311	0.1523		1,503.1735	1,503.1735	0.0773		1,505.1052
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.3144	2,787.3144	0.0798		2,789.3089
Total	1.2157	5.7716	10.0675	0.0464	3.3299	0.0560	3.3859	0.8925	0.0530	0.9455		4,775.8049	4,775.8049	0.1958		4,780.7007

Campo Construction Unmitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 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	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092
Total	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092

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	0.9636	30.4843	7.3065	0.0944	17.8126	0.1412	17.9538	4.4372	0.1351	4.5723		10,301.4588	10,301.4588	0.8142		10,321.8130
Vendor	0.4996	10.6277	2.8898	0.0354	1.0536	0.1275	1.1811	0.3029	0.1220	0.4249		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	1.2680	0.9958	11.0655	0.0337	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,357.9651	3,357.9651	0.1027		3,360.5325
Total	2.7313	42.1078	21.2618	0.1635	22.0842	0.2903	22.3744	5.5934	0.2769	5.8703		17,451.3944	17,451.3944	1.1158		17,479.2903

Campo Construction Unmitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 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	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092
Total	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092

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	0.9636	30.4843	7.3065	0.0944	17.8126	0.1412	17.9538	4.4372	0.1351	4.5723		10,301.4588	10,301.4588	0.8142		10,321.8130
Vendor	0.4996	10.6277	2.8898	0.0354	1.0536	0.1275	1.1811	0.3029	0.1220	0.4249		3,791.9706	3,791.9706	0.1990		3,796.9448
Worker	1.2680	0.9958	11.0655	0.0337	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,357.9651	3,357.9651	0.1027		3,360.5325
Total	2.7313	42.1078	21.2618	0.1635	22.0842	0.2903	22.3744	5.5934	0.2769	5.8703		17,451.3944	17,451.3944	1.1158		17,479.2903

Campo Construction Unmitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726

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	0.8816	27.9887	7.1984	0.0930	2.4710	0.1116	2.5826	0.6715	0.1068	0.7783		10,177.4560	10,177.4560	0.8134		10,197.7905
Vendor	0.3893	9.1643	2.5653	0.0351	1.0536	0.0813	1.1349	0.3029	0.0778	0.3807		3,757.9338	3,757.9338	0.1932		3,762.7630
Worker	1.1876	0.8998	10.1478	0.0326	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,251.8668	3,251.8668	0.0931		3,254.1937
Total	2.4585	38.0527	19.9115	0.1607	6.7426	0.2141	6.9567	1.8277	0.2041	2.0318		17,187.2567	17,187.2567	1.0996		17,214.7471

Campo Construction Unmitigated - San Diego County, Summer

3.5 Wind Turbine Foundation Construction - 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	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726

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	0.8816	27.9887	7.1984	0.0930	2.4710	0.1116	2.5826	0.6715	0.1068	0.7783		10,177.4560	10,177.4560	0.8134		10,197.7905
Vendor	0.3893	9.1643	2.5653	0.0351	1.0536	0.0813	1.1349	0.3029	0.0778	0.3807		3,757.9338	3,757.9338	0.1932		3,762.7630
Worker	1.1876	0.8998	10.1478	0.0326	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,251.8668	3,251.8668	0.0931		3,254.1937
Total	2.4585	38.0527	19.9115	0.1607	6.7426	0.2141	6.9567	1.8277	0.2041	2.0318		17,187.2567	17,187.2567	1.0996		17,214.7471

Campo Construction Unmitigated - San Diego County, Summer

3.6 Construction of Underground Electrical Systems - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.5387	0.0000	10.5387	5.7929	0.0000	5.7929			0.0000			0.0000
Off-Road	4.0904	40.6823	25.2047	0.0388		2.4228	2.4228		2.2289	2.2289		3,758.3929	3,758.3929	1.2155		3,788.7814
Total	4.0904	40.6823	25.2047	0.0388	10.5387	2.4228	12.9614	5.7929	2.2289	8.0218		3,758.3929	3,758.3929	1.2155		3,788.7814

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	0.0678	2.1518	0.5534	7.1500e-003	0.1752	8.5800e-003	0.1838	0.0480	8.2100e-003	0.0562		782.4607	782.4607	0.0625		784.0240
Vendor	0.2336	5.4986	1.5392	0.0210	0.6322	0.0488	0.6810	0.1818	0.0467	0.2284		2,254.7603	2,254.7603	0.1159		2,257.6578
Worker	1.6965	1.2854	14.4968	0.0466	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,645.5241	4,645.5241	0.1330		4,648.8481
Total	1.9979	8.9358	16.5894	0.0748	5.4045	0.0877	5.4922	1.4487	0.0828	1.5315		7,682.7450	7,682.7450	0.3114		7,690.5299

Campo Construction Unmitigated - San Diego County, Summer

3.6 Construction of Underground Electrical Systems - 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					
Fugitive Dust					10.5387	0.0000	10.5387	5.7929	0.0000	5.7929			0.0000			0.0000
Off-Road	4.0904	40.6823	25.2047	0.0388		2.4228	2.4228		2.2289	2.2289	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814
Total	4.0904	40.6823	25.2047	0.0388	10.5387	2.4228	12.9614	5.7929	2.2289	8.0218	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814

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	0.0678	2.1518	0.5534	7.1500e-003	0.1752	8.5800e-003	0.1838	0.0480	8.2100e-003	0.0562		782.4607	782.4607	0.0625		784.0240
Vendor	0.2336	5.4986	1.5392	0.0210	0.6322	0.0488	0.6810	0.1818	0.0467	0.2284		2,254.7603	2,254.7603	0.1159		2,257.6578
Worker	1.6965	1.2854	14.4968	0.0466	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,645.5241	4,645.5241	0.1330		4,648.8481
Total	1.9979	8.9358	16.5894	0.0748	5.4045	0.0877	5.4922	1.4487	0.0828	1.5315		7,682.7450	7,682.7450	0.3114		7,690.5299

Campo Construction Unmitigated - San Diego County, Summer

3.7 O&M Building - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.6257	1,582.6257	0.3090		1,590.3506
Total	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.6257	1,582.6257	0.3090		1,590.3506

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	2.6100e-003	0.0830	0.0214	2.8000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		30.1791	30.1791	2.4100e-003		30.2394
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.7620	2,322.7620	0.0665		2,324.4241
Total	0.9287	2.5586	7.7828	0.0306	2.5160	0.0317	2.5478	0.6719	0.0298	0.7018		3,104.5279	3,104.5279	0.1075		3,107.2160

Campo Construction Unmitigated - San Diego County, Summer

3.7 O&M Building - 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	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692	0.0000	1,582.625 7	1,582.625 7	0.3090		1,590.350 6
Total	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692	0.0000	1,582.625 7	1,582.625 7	0.3090		1,590.350 6

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	2.6100e-003	0.0830	0.0214	2.8000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		30.1791	30.1791	2.4100e-003		30.2394
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.8483	0.6427	7.2484	0.0233	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,322.762 0	2,322.762 0	0.0665		2,324.424 1
Total	0.9287	2.5586	7.7828	0.0306	2.5160	0.0317	2.5478	0.6719	0.0298	0.7018		3,104.527 9	3,104.527 9	0.1075		3,107.216 0

Campo Construction Unmitigated - San Diego County, Summer

3.8 Wind Turbine Erection - 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	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.92 27	14,607.92 27	3.4571		14,694.35 04

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	0.1731	5.4021	1.4169	0.0184	0.4571	0.0223	0.4793	0.1252	0.0213	0.1465		2,016.099 6	2,016.099 6	0.1588		2,020.070 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.314 4	2,787.314 4	0.0798		2,789.308 9
Total	1.1910	6.1734	10.1150	0.0464	3.2154	0.0404	3.2558	0.8566	0.0380	0.8946		4,803.414 0	4,803.414 0	0.2386		4,809.379 4

Campo Construction Unmitigated - San Diego County, Summer

3.8 Wind Turbine Erection - 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	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068	0.0000	14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068	0.0000	14,607.92 27	14,607.92 27	3.4571		14,694.35 04

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	0.1731	5.4021	1.4169	0.0184	0.4571	0.0223	0.4793	0.1252	0.0213	0.1465		2,016.099 6	2,016.099 6	0.1588		2,020.070 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0179	0.7713	8.6981	0.0280	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,787.314 4	2,787.314 4	0.0798		2,789.308 9
Total	1.1910	6.1734	10.1150	0.0464	3.2154	0.0404	3.2558	0.8566	0.0380	0.8946		4,803.414 0	4,803.414 0	0.2386		4,809.379 4

Campo Construction Unmitigated - San Diego County, Summer

3.9 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.916 3	4,065.916 3	1.3150		4,098.791 3
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5742	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.916 3	4,065.916 3	1.3150		4,098.791 3

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	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2
Total	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2

Campo Construction Unmitigated - San Diego County, Summer

3.9 Paving - 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	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963	0.0000	4,065.916 3	4,065.916 3	1.3150		4,098.791 3
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5742	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963	0.0000	4,065.916 3	4,065.916 3	1.3150		4,098.791 3

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	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2
Total	0.4666	0.3535	3.9866	0.0128	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,277.519 1	1,277.519 1	0.0366		1,278.433 2

Campo Construction Unmitigated - San Diego County, Summer

3.10 Met Towers - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.660 2	2,205.660 2	0.3441		2,214.262 2

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	0.0349	1.1063	0.2845	3.6800e-003	0.0901	4.4100e-003	0.0945	0.0247	4.2200e-003	0.0289		402.2868	402.2868	0.0322		403.0906
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.1697	0.1285	1.4497	4.6600e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		464.5524	464.5524	0.0133		464.8848
Total	0.2824	3.0677	2.2473	0.0154	0.7605	0.0237	0.7842	0.2072	0.0226	0.2297		1,618.426 0	1,618.426 0	0.0841		1,620.528 0

Campo Construction Unmitigated - San Diego County, Summer

3.10 Met Towers - 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	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655	0.0000	2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655	0.0000	2,205.660 2	2,205.660 2	0.3441		2,214.262 2

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	0.0349	1.1063	0.2845	3.6800e-003	0.0901	4.4100e-003	0.0945	0.0247	4.2200e-003	0.0289		402.2868	402.2868	0.0322		403.0906
Vendor	0.0779	1.8329	0.5131	7.0100e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		751.5868	751.5868	0.0386		752.5526
Worker	0.1697	0.1285	1.4497	4.6600e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		464.5524	464.5524	0.0133		464.8848
Total	0.2824	3.0677	2.2473	0.0154	0.7605	0.0237	0.7842	0.2072	0.0226	0.2297		1,618.426 0	1,618.426 0	0.0841		1,620.528 0

4.0 Operational Detail - Mobile

Campo Construction Unmitigated - 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	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767
Unmitigated	0.0132	0.0557	0.1680	5.9000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		60.1016	60.1016	3.0100e-003		60.1767

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Campo Construction Unmitigated - San Diego County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Campo Construction Unmitigated - 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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Construction Unmitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Unmitigated	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

Campo Construction Unmitigated - 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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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**Fire Pumps and Emergency Generators**

Campo Construction Unmitigated - San Diego County, Summer

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

Campo Construction Unmitigated - San Diego County, Winter

Campo Construction Unmitigated

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	43.00	Acre	43.00	1,873,080.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	456.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Construction Unmitigated - San Diego County, Winter

Project Characteristics - Campo Construction Unmitigated. 2016 RPS for SDG&E. Minus Boulder Brush

Land Use -

Construction Phase - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data from client

Off-road Equipment - Data provided by applicant

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by client.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by applicant.

Trips and VMT - Data provided by applicant. Water trucks modeled as vendor trips and delivery trips modeled as haul trips.

Grading - Data provided by applicant.

Land Use Change - Data provided by bio report.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	112385	79200
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	55.00	40.00

Campo Construction Unmitigated - San Diego County, Winter

tblConstructionPhase	NumDays	740.00	25.00
tblGrading	AcresOfGrading	279.00	745.75
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	PhaseName		Clearing and Grading
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

Campo Construction Unmitigated - San Diego County, Winter

tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	43.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripLength	6.60	57.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00

Campo Construction Unmitigated - San Diego County, Winter

tblTripsAndVMT	VendorTripNumber	307.00	8.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	35.00	72.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	25.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00

2.0 Emissions Summary

Campo Construction Unmitigated - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	38.4119	414.6512	211.9638	0.6304	116.5414	16.9076	133.4491	54.7380	15.8017	70.5397	0.0000	64,042.21 92	64,042.21 92	10.1999	0.0000	64,297.21 76
2020	53.1527	454.7207	327.0521	0.8643	77.4803	20.0599	97.5402	35.6108	18.9114	54.5222	0.0000	85,868.04 87	85,868.04 87	12.8479	0.0000	86,189.24 61
Maximum	53.1527	454.7207	327.0521	0.8643	116.5414	20.0599	133.4491	54.7380	18.9114	70.5397	0.0000	85,868.04 87	85,868.04 87	12.8479	0.0000	86,189.24 61

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	38.4119	410.5071	211.9638	0.6304	116.5414	16.9076	133.4491	54.7380	15.8017	70.5397	0.0000	64,042.2192	64,042.2192	10.1999	0.0000	64,297.2176
2020	53.1527	454.7207	327.0521	0.8643	77.4803	20.0599	97.5402	35.6108	18.9114	54.5222	0.0000	85,868.0486	85,868.0486	12.8479	0.0000	86,189.2461
Maximum	53.1527	454.7207	327.0521	0.8643	116.5414	20.0599	133.4491	54.7380	18.9114	70.5397	0.0000	85,868.0486	85,868.0486	12.8479	0.0000	86,189.2461

[illegible]

Campo Construction Unmitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.9565	0.0630	0.1723	5.9000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		63.5403	63.5403	3.1500e-003	1.2000e-004	63.6546

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Energy	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Mobile	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Total	0.9565	0.0630	0.1723	5.9000e-004	0.0503	9.1000e-004	0.0512	0.0134	8.8000e-004	0.0143		63.5403	63.5403	3.1500e-003	1.2000e-004	63.6546

Campo Construction Unmitigated - 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	Clearing and Grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction Access Roads	Grading	9/29/2019	3/28/2020	5	130	
3	Substation and Switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
4	Wind Turbine Foundation Construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Construction of Underground Electrical Systems	Site Preparation	1/19/2020	6/20/2020	5	110	
6	O&M Building	Building Construction	2/2/2020	9/5/2020	5	155	
7	Wind Turbine Erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Paving	Paving	3/1/2020	4/25/2020	5	40	
9	Met Towers	Building Construction	6/7/2020	7/11/2020	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43

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
Clearing and Grading	Graders	3	8.00	187	0.41

Campo Construction Unmitigated - San Diego County, Winter

Clearing and Grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and Grading	Scrapers	3	8.00	367	0.48
Construction Access Roads	Rubber Tired Dozers	7	8.00	247	0.40
Construction Access Roads	Scrapers	3	8.00	367	0.48
Substation and Switchyard	Air Compressors	1	8.00	78	0.48
Substation and Switchyard	Cranes	2	7.00	231	0.29
Substation and Switchyard	Generator Sets	6	8.00	84	0.74
Substation and Switchyard	Pumps	3	8.00	84	0.74
Substation and Switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Substation and Switchyard	Welders	2	8.00	46	0.45
Wind Turbine Foundation Construction	Air Compressors	3	8.00	78	0.48
Wind Turbine Foundation Construction	Generator Sets	3	8.00	84	0.74
Wind Turbine Foundation Construction	Pumps	1	8.00	84	0.74
Construction of Underground Electrical Systems	Rollers	1	4.00	80	0.38
Construction of Underground Electrical Systems	Rubber Tired Dozers	2	7.00	247	0.40
Construction of Underground Electrical Systems	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of Underground Electrical Systems	Trenchers	3	8.00	78	0.50
O&M Building	Cranes	1	7.00	231	0.29
O&M Building	Generator Sets	1	8.00	84	0.74
O&M Building	Tractors/Loaders/Backhoes	1	7.00	97	0.37
O&M Building	Welders	1	8.00	46	0.45
Wind Turbine Erection	Air Compressors	2	8.00	78	0.48
Wind Turbine Erection	Cranes	19	7.00	231	0.29
Wind Turbine Erection	Generator Sets	3	8.00	84	0.74
Wind Turbine Erection	Pumps	2	8.00	84	0.74
Wind Turbine Erection	Welders	7	8.00	46	0.45

Campo Construction Unmitigated - San Diego County, Winter

Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	8	8.00	80	0.38
Met Towers	Cranes	1	7.00	231	0.29
Met Towers	Generator Sets	2	8.00	84	0.74
Met Towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Met Towers	Welders	1	8.00	46	0.45
Clearing and Grading	Crushing/Proc. Equipment	1	8.00	85	0.78

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
Clearing and Grading	14	72.00	108.00	734.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction Access Roads	10	120.00	0.00	22.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Substation and Switchyard	17	144.00	8.00	415.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Foundation Construction	7	168.00	20.00	3,046.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of Underground Electrical	10	240.00	12.00	368.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
O&M Building	4	120.00	4.00	20.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind Turbine Erection	33	144.00	0.00	720.00	25.20	57.00	80.00	LD_Mix	HDT_Mix	HHDT
Paving	13	66.00	0.00	0.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT
Met Towers	5	24.00	4.00	43.00	25.20	57.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Campo Construction Unmitigated - San Diego County, Winter

3.2 Clearing and Grading - 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					
Fugitive Dust					60.9326	0.0000	60.9326	27.8592	0.0000	27.8592			0.0000			0.0000
Off-Road	14.3396	159.2198	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943		13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	14.3396	159.2198	68.3433	0.1406	60.9326	7.1432	68.0758	27.8592	6.5943	34.4534		13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2650	8.4980	2.0321	0.0255	0.6201	0.0387	0.6589	0.1699	0.0371	0.2070		2,785.423 6	2,785.423 6	0.2247		2,791.041 3
Vendor	2.7385	58.9466	15.8473	0.1905	5.6895	0.6901	6.3796	1.6358	0.6602	2.2960		20,395.46 45	20,395.46 45	1.0883		20,422.67 12
Worker	0.6395	0.4789	4.3286	0.0136	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,350.076 9	1,350.076 9	0.0411		1,351.104 4
Total	3.6429	67.9234	22.2080	0.2296	7.6887	0.7381	8.4268	2.1714	0.7058	2.8772		24,530.96 49	24,530.96 49	1.3541		24,564.81 69

Campo Construction Unmitigated - San Diego County, Winter

3.2 Clearing and Grading - 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					
Fugitive Dust					60.9326	0.0000	60.9326	27.8592	0.0000	27.8592			0.0000			0.0000
Off-Road	14.3396	155.0757	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943	0.0000	13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	14.3396	155.0757	68.3433	0.1406	60.9326	7.1432	68.0758	27.8592	6.5943	34.4534	0.0000	13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2650	8.4980	2.0321	0.0255	0.6201	0.0387	0.6589	0.1699	0.0371	0.2070		2,785.423 6	2,785.423 6	0.2247		2,791.041 3
Vendor	2.7385	58.9466	15.8473	0.1905	5.6895	0.6901	6.3796	1.6358	0.6602	2.2960		20,395.46 45	20,395.46 45	1.0883		20,422.67 12
Worker	0.6395	0.4789	4.3286	0.0136	1.3791	9.2300e-003	1.3884	0.3657	8.5100e-003	0.3742		1,350.076 9	1,350.076 9	0.0411		1,351.104 4
Total	3.6429	67.9234	22.2080	0.2296	7.6887	0.7381	8.4268	2.1714	0.7058	2.8772		24,530.96 49	24,530.96 49	1.3541		24,564.81 69

Campo Construction Unmitigated - San Diego County, Winter

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	11.1379	123.2625	54.1730	0.1051		5.6391	5.6391		5.1880	5.1880		10,417.44 29	10,417.44 29	3.2960		10,499.84 21
Total	11.1379	123.2625	54.1730	0.1051	42.1546	5.6391	47.7937	23.1716	5.1880	28.3596		10,417.44 29	10,417.44 29	3.2960		10,499.84 21

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	3.7900e-003	0.1215	0.0291	3.6000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5100e-003		39.8168	39.8168	3.2100e-003		39.8971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0658	0.7981	7.2143	0.0226	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,250.128 2	2,250.128 2	0.0685		2,251.840 7
Total	1.0695	0.9196	7.2433	0.0229	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,289.945 0	2,289.945 0	0.0717		2,291.737 8

Campo Construction Unmitigated - San Diego County, Winter

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	11.1379	123.2625	54.1730	0.1051		5.6391	5.6391		5.1880	5.1880	0.0000	10,417.44 29	10,417.44 29	3.2960		10,499.84 21
Total	11.1379	123.2625	54.1730	0.1051	42.1546	5.6391	47.7937	23.1716	5.1880	28.3596	0.0000	10,417.44 29	10,417.44 29	3.2960		10,499.84 21

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	3.7900e-003	0.1215	0.0291	3.6000e-004	0.0152	5.5000e-004	0.0157	3.9800e-003	5.3000e-004	4.5100e-003		39.8168	39.8168	3.2100e-003		39.8971
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0658	0.7981	7.2143	0.0226	2.2986	0.0154	2.3139	0.6095	0.0142	0.6237		2,250.128 2	2,250.128 2	0.0685		2,251.840 7
Total	1.0695	0.9196	7.2433	0.0229	2.3137	0.0159	2.3297	0.6135	0.0147	0.6282		2,289.945 0	2,289.945 0	0.0717		2,291.737 8

Campo Construction Unmitigated - San Diego County, Winter

3.3 Construction Access Roads - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	10.5351	114.5820	51.2971	0.1052		5.2599	5.2599		4.8391	4.8391		10,192.44 29	10,192.44 29	3.2964		10,274.85 40
Total	10.5351	114.5820	51.2971	0.1052	42.1546	5.2599	47.4145	23.1716	4.8391	28.0107		10,192.44 29	10,192.44 29	3.2964		10,274.85 40

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	3.4600e-003	0.1115	0.0286	3.6000e-004	0.0160	4.4000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.3324	39.3324	3.2100e-003		39.4125
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.997 4	2,178.997 4	0.0620		2,180.546 3
Total	1.0038	0.8325	6.6303	0.0222	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,218.329 8	2,218.329 8	0.0652		2,219.958 9

Campo Construction Unmitigated - San Diego County, Winter

3.3 Construction Access Roads - 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					
Fugitive Dust					42.1546	0.0000	42.1546	23.1716	0.0000	23.1716			0.0000			0.0000
Off-Road	10.5351	114.5820	51.2971	0.1052		5.2599	5.2599		4.8391	4.8391	0.0000	10,192.44 29	10,192.44 29	3.2964		10,274.85 40
Total	10.5351	114.5820	51.2971	0.1052	42.1546	5.2599	47.4145	23.1716	4.8391	28.0107	0.0000	10,192.44 29	10,192.44 29	3.2964		10,274.85 40

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	3.4600e-003	0.1115	0.0286	3.6000e-004	0.0160	4.4000e-004	0.0164	4.1800e-003	4.2000e-004	4.6000e-003		39.3324	39.3324	3.2100e-003		39.4125
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.997 4	2,178.997 4	0.0620		2,180.546 3
Total	1.0038	0.8325	6.6303	0.0222	2.3146	0.0156	2.3301	0.6137	0.0144	0.6280		2,218.329 8	2,218.329 8	0.0652		2,219.958 9

Campo Construction Unmitigated - San Diego County, Winter

3.4 Substation and Switchyard - 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	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.4465	8,204.4465	1.0345		8,230.3099

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	0.0464	1.4895	0.3562	4.4700e-003	0.2721	6.7900e-003	0.2789	0.0699	6.5000e-003	0.0764		488.2081	488.2081	0.0394		489.1927
Vendor	0.2029	4.3664	1.1739	0.0141	0.4214	0.0511	0.4726	0.1212	0.0489	0.1701		1,510.7751	1,510.7751	0.0806		1,512.7905
Worker	1.2789	0.9577	8.6572	0.0271	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,700.1538	2,700.1538	0.0822		2,702.2088
Total	1.5282	6.8136	10.1872	0.0457	3.4518	0.0764	3.5281	0.9224	0.0724	0.9948		4,699.1370	4,699.1370	0.2022		4,704.1920

Campo Construction Unmitigated - San Diego County, Winter

3.4 Substation and Switchyard - 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	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099

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	0.0464	1.4895	0.3562	4.4700e-003	0.2721	6.7900e-003	0.2789	0.0699	6.5000e-003	0.0764		488.2081	488.2081	0.0394		489.1927
Vendor	0.2029	4.3664	1.1739	0.0141	0.4214	0.0511	0.4726	0.1212	0.0489	0.1701		1,510.7751	1,510.7751	0.0806		1,512.7905
Worker	1.2789	0.9577	8.6572	0.0271	2.7583	0.0185	2.7767	0.7314	0.0170	0.7484		2,700.1538	2,700.1538	0.0822		2,702.2088
Total	1.5282	6.8136	10.1872	0.0457	3.4518	0.0764	3.5281	0.9224	0.0724	0.9948		4,699.1370	4,699.1370	0.2022		4,704.1920

Campo Construction Unmitigated - San Diego County, Winter

3.4 Substation and Switchyard - 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	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378
Total	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001		8,164.9298	8,164.9298	0.9843		8,189.5378

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	0.0425	1.3671	0.3501	4.4100e-003	0.1502	5.3600e-003	0.1555	0.0400	5.1300e-003	0.0451		482.2685	482.2685	0.0393		483.2513
Vendor	0.1585	3.7625	1.0422	0.0140	0.4214	0.0326	0.4541	0.1212	0.0312	0.1524		1,497.1112	1,497.1112	0.0782		1,499.0671
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.7969	2,614.7969	0.0744		2,616.6556
Total	1.4014	5.9948	9.3145	0.0446	3.3299	0.0562	3.3860	0.8925	0.0531	0.9456		4,594.1767	4,594.1767	0.1919		4,598.9740

Campo Construction Unmitigated - San Diego County, Winter

3.4 Substation and Switchyard - 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	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378
Total	6.0143	51.8077	49.1829	0.0865		2.8592	2.8592		2.8001	2.8001	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378

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	0.0425	1.3671	0.3501	4.4100e-003	0.1502	5.3600e-003	0.1555	0.0400	5.1300e-003	0.0451		482.2685	482.2685	0.0393		483.2513
Vendor	0.1585	3.7625	1.0422	0.0140	0.4214	0.0326	0.4541	0.1212	0.0312	0.1524		1,497.1112	1,497.1112	0.0782		1,499.0671
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.7969	2,614.7969	0.0744		2,616.6556
Total	1.4014	5.9948	9.3145	0.0446	3.3299	0.0562	3.3860	0.8925	0.0531	0.9456		4,594.1767	4,594.1767	0.1919		4,598.9740

Campo Construction Unmitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 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	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092
Total	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305		3,617.9305	3,617.9305	0.2552		3,624.3092

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	0.9739	31.2352	7.4693	0.0938	17.8126	0.1424	17.9550	4.4372	0.1362	4.5734		10,238.0851	10,238.0851	0.8259		10,258.7335
Vendor	0.5071	10.9160	2.9347	0.0353	1.0536	0.1278	1.1814	0.3029	0.1223	0.4252		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	1.4921	1.1174	10.1000	0.0316	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,150.1794	3,150.1794	0.0959		3,152.5770
Total	2.9731	43.2686	20.5040	0.1607	22.0842	0.2917	22.3759	5.5934	0.2783	5.8717		17,165.2024	17,165.2024	1.1234		17,193.2866

Campo Construction Unmitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 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	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092
Total	2.8681	22.5091	22.3158	0.0382		1.4305	1.4305		1.4305	1.4305	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092

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	0.9739	31.2352	7.4693	0.0938	17.8126	0.1424	17.9550	4.4372	0.1362	4.5734		10,238.0851	10,238.0851	0.8259		10,258.7335
Vendor	0.5071	10.9160	2.9347	0.0353	1.0536	0.1278	1.1814	0.3029	0.1223	0.4252		3,776.9379	3,776.9379	0.2015		3,781.9762
Worker	1.4921	1.1174	10.1000	0.0316	3.2180	0.0215	3.2395	0.8533	0.0199	0.8731		3,150.1794	3,150.1794	0.0959		3,152.5770
Total	2.9731	43.2686	20.5040	0.1607	22.0842	0.2917	22.3759	5.5934	0.2783	5.8717		17,165.2024	17,165.2024	1.1234		17,193.2866

Campo Construction Unmitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397		3,617.9305	3,617.9305	0.2297		3,623.6726

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	0.8908	28.6682	7.3413	0.0924	2.4710	0.1124	2.5834	0.6715	0.1075	0.7791		10,113.5282	10,113.5282	0.8244		10,134.1370
Vendor	0.3961	9.4063	2.6056	0.0349	1.0536	0.0816	1.1351	0.3029	0.0780	0.3809		3,742.7781	3,742.7781	0.1956		3,747.6679
Worker	1.4005	1.0094	9.2425	0.0306	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,050.5964	3,050.5964	0.0867		3,052.7649
Total	2.6874	39.0839	19.1894	0.1579	6.7426	0.2151	6.9577	1.8277	0.2051	2.0328		16,906.9026	16,906.9026	1.1067		16,934.5697

Campo Construction Unmitigated - San Diego County, Winter

3.5 Wind Turbine Foundation Construction - 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	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726

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	0.8908	28.6682	7.3413	0.0924	2.4710	0.1124	2.5834	0.6715	0.1075	0.7791		10,113.5282	10,113.5282	0.8244		10,134.1370
Vendor	0.3961	9.4063	2.6056	0.0349	1.0536	0.0816	1.1351	0.3029	0.0780	0.3809		3,742.7781	3,742.7781	0.1956		3,747.6679
Worker	1.4005	1.0094	9.2425	0.0306	3.2180	0.0212	3.2392	0.8533	0.0195	0.8728		3,050.5964	3,050.5964	0.0867		3,052.7649
Total	2.6874	39.0839	19.1894	0.1579	6.7426	0.2151	6.9577	1.8277	0.2051	2.0328		16,906.9026	16,906.9026	1.1067		16,934.5697

Campo Construction Unmitigated - San Diego County, Winter

3.6 Construction of Underground Electrical Systems - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.5387	0.0000	10.5387	5.7929	0.0000	5.7929			0.0000			0.0000
Off-Road	4.0904	40.6823	25.2047	0.0388		2.4228	2.4228		2.2289	2.2289		3,758.3929	3,758.3929	1.2155		3,788.7814
Total	4.0904	40.6823	25.2047	0.0388	10.5387	2.4228	12.9614	5.7929	2.2289	8.0218		3,758.3929	3,758.3929	1.2155		3,788.7814

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	0.0685	2.2041	0.5644	7.1100e-003	0.1752	8.6400e-003	0.1839	0.0480	8.2700e-003	0.0563		777.5458	777.5458	0.0634		779.1302
Vendor	0.2377	5.6438	1.5634	0.0209	0.6322	0.0489	0.6811	0.1818	0.0468	0.2286		2,245.6669	2,245.6669	0.1174		2,248.6007
Worker	2.0007	1.4420	13.2036	0.0437	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,357.9948	4,357.9948	0.1239		4,361.0927
Total	2.3069	9.2898	15.3314	0.0718	5.4045	0.0879	5.4924	1.4487	0.0830	1.5317		7,381.2074	7,381.2074	0.3047		7,388.8236

Campo Construction Unmitigated - San Diego County, Winter

3.6 Construction of Underground Electrical Systems - 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					
Fugitive Dust					10.5387	0.0000	10.5387	5.7929	0.0000	5.7929			0.0000			0.0000
Off-Road	4.0904	40.6823	25.2047	0.0388		2.4228	2.4228		2.2289	2.2289	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814
Total	4.0904	40.6823	25.2047	0.0388	10.5387	2.4228	12.9614	5.7929	2.2289	8.0218	0.0000	3,758.3929	3,758.3929	1.2155		3,788.7814

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	0.0685	2.2041	0.5644	7.1100e-003	0.1752	8.6400e-003	0.1839	0.0480	8.2700e-003	0.0563		777.5458	777.5458	0.0634		779.1302
Vendor	0.2377	5.6438	1.5634	0.0209	0.6322	0.0489	0.6811	0.1818	0.0468	0.2286		2,245.6669	2,245.6669	0.1174		2,248.6007
Worker	2.0007	1.4420	13.2036	0.0437	4.5971	0.0303	4.6274	1.2190	0.0279	1.2469		4,357.9948	4,357.9948	0.1239		4,361.0927
Total	2.3069	9.2898	15.3314	0.0718	5.4045	0.0879	5.4924	1.4487	0.0830	1.5317		7,381.2074	7,381.2074	0.3047		7,388.8236

Campo Construction Unmitigated - San Diego County, Winter

3.7 O&M Building - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.625 7	1,582.625 7	0.3090		1,590.350 6
Total	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692		1,582.625 7	1,582.625 7	0.3090		1,590.350 6

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	2.6400e-003	0.0850	0.0218	2.7000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		29.9895	29.9895	2.4400e-003		30.0506
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.997 4	2,178.997 4	0.0620		2,180.546 3
Total	1.0822	2.6873	7.1447	0.0291	2.5160	0.0318	2.5478	0.6719	0.0299	0.7018		2,957.542 5	2,957.542 5	0.1035		2,960.130 5

Campo Construction Unmitigated - San Diego County, Winter

3.7 O&M Building - 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	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692	0.0000	1,582.625 7	1,582.625 7	0.3090		1,590.350 6
Total	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692	0.0000	1,582.625 7	1,582.625 7	0.3090		1,590.350 6

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	2.6400e-003	0.0850	0.0218	2.7000e-004	6.7600e-003	3.3000e-004	7.0900e-003	1.8500e-003	3.2000e-004	2.1700e-003		29.9895	29.9895	2.4400e-003		30.0506
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	1.0004	0.7210	6.6018	0.0219	2.2986	0.0151	2.3137	0.6095	0.0140	0.6234		2,178.997 4	2,178.997 4	0.0620		2,180.546 3
Total	1.0822	2.6873	7.1447	0.0291	2.5160	0.0318	2.5478	0.6719	0.0299	0.7018		2,957.542 5	2,957.542 5	0.1035		2,960.130 5

Campo Construction Unmitigated - San Diego County, Winter

3.8 Wind Turbine Erection - 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	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068		14,607.92 27	14,607.92 27	3.4571		14,694.35 04

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	0.1744	5.5467	1.4354	0.0183	0.4571	0.0224	0.4795	0.1252	0.0214	0.1466		2,006.483 5	2,006.483 5	0.1605		2,010.495 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.796 9	2,614.796 9	0.0744		2,616.655 6
Total	1.3748	6.4119	9.3576	0.0446	3.2154	0.0406	3.2559	0.8566	0.0382	0.8948		4,621.280 4	4,621.280 4	0.2348		4,627.150 8

Campo Construction Unmitigated - San Diego County, Winter

3.8 Wind Turbine Erection - 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	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068	0.0000	14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	12.6217	122.6176	71.0626	0.1546		5.6024	5.6024		5.3068	5.3068	0.0000	14,607.92 27	14,607.92 27	3.4571		14,694.35 04

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	0.1744	5.5467	1.4354	0.0183	0.4571	0.0224	0.4795	0.1252	0.0214	0.1466		2,006.483 5	2,006.483 5	0.1605		2,010.495 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2004	0.8652	7.9222	0.0262	2.7583	0.0182	2.7764	0.7314	0.0167	0.7481		2,614.796 9	2,614.796 9	0.0744		2,616.655 6
Total	1.3748	6.4119	9.3576	0.0446	3.2154	0.0406	3.2559	0.8566	0.0382	0.8948		4,621.280 4	4,621.280 4	0.2348		4,627.150 8

Campo Construction Unmitigated - San Diego County, Winter

3.9 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.916 3	4,065.916 3	1.3150		4,098.791 3
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5742	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963		4,065.916 3	4,065.916 3	1.3150		4,098.791 3

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	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.448 6	1,198.448 6	0.0341		1,199.300 5
Total	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.448 6	1,198.448 6	0.0341		1,199.300 5

Campo Construction Unmitigated - San Diego County, Winter

3.9 Paving - 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	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963	0.0000	4,065.916 3	4,065.916 3	1.3150		4,098.791 3
Paving	2.8165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5742	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963	0.0000	4,065.916 3	4,065.916 3	1.3150		4,098.791 3

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	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.448 6	1,198.448 6	0.0341		1,199.300 5
Total	0.5502	0.3965	3.6310	0.0120	1.2642	8.3300e-003	1.2725	0.3352	7.6700e-003	0.3429		1,198.448 6	1,198.448 6	0.0341		1,199.300 5

Campo Construction Unmitigated - San Diego County, Winter

3.10 Met Towers - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655		2,205.660 2	2,205.660 2	0.3441		2,214.262 2

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	0.0352	1.1332	0.2902	3.6500e-003	0.0901	4.4400e-003	0.0945	0.0247	4.2500e-003	0.0289		399.7599	399.7599	0.0326		400.5746
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	0.2001	0.1442	1.3204	4.3700e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		435.7995	435.7995	0.0124		436.1093
Total	0.3145	3.1586	2.1317	0.0150	0.7605	0.0238	0.7843	0.2072	0.0226	0.2298		1,584.115 0	1,584.115 0	0.0841		1,586.217 4

Campo Construction Unmitigated - San Diego County, Winter

3.10 Met Towers - 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	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655	0.0000	2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	1.7202	15.0881	13.0238	0.0235		0.7903	0.7903		0.7655	0.7655	0.0000	2,205.660 2	2,205.660 2	0.3441		2,214.262 2

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	0.0352	1.1332	0.2902	3.6500e-003	0.0901	4.4400e-003	0.0945	0.0247	4.2500e-003	0.0289		399.7599	399.7599	0.0326		400.5746
Vendor	0.0792	1.8813	0.5211	6.9800e-003	0.2107	0.0163	0.2270	0.0606	0.0156	0.0762		748.5556	748.5556	0.0391		749.5336
Worker	0.2001	0.1442	1.3204	4.3700e-003	0.4597	3.0300e-003	0.4627	0.1219	2.7900e-003	0.1247		435.7995	435.7995	0.0124		436.1093
Total	0.3145	3.1586	2.1317	0.0150	0.7605	0.0238	0.7843	0.2072	0.0226	0.2298		1,584.115 0	1,584.115 0	0.0841		1,586.217 4

4.0 Operational Detail - Mobile

Campo Construction Unmitigated - 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	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980
Unmitigated	0.0128	0.0575	0.1632	5.6000e-004	0.0503	4.8000e-004	0.0507	0.0134	4.5000e-004	0.0139		57.0230	57.0230	3.0000e-003		57.0980

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	6.83	2.49	0.73	18,523	18,523
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	6.83	2.49	0.73	18,523	18,523

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Campo Construction Unmitigated - San Diego County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193
Other Asphalt Surfaces	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
NaturalGas Unmitigated	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

Campo Construction Unmitigated - 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					
Industrial Park	55.3151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

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					
Industrial Park	0.0553151	6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-004	5.4200e-003	4.5600e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.5077	6.5077	1.2000e-004	1.2000e-004	6.5463

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Construction Unmitigated - 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	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Unmitigated	0.9431	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

Campo Construction Unmitigated - 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	0.2578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103
Total	0.9430	4.0000e-005	4.5100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005		0.0103

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**Fire Pumps and Emergency Generators**

Campo Construction Unmitigated - San Diego County, Winter

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

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Campo Wind Operation

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Operation - San Diego County, Annual

Project Characteristics - Includes RPS for 2016 SDG&E. Project operation only.

Land Use -

Vehicle Trips - Assume 12 employees, 7 days a week. Assume to start from port of SD.

Energy Use - Electrical use only.

Stationary Sources - Emergency Generators and Fire Pumps -

Fleet Mix - Assume employees drive light duty trucks for O&M activities

Consumer Products - No consumer products

Area Coating - Assume no architectural coating reapplication

Landscape Equipment - minimal to none landscape

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaCoating	Area_Nonresidential_Exterior	2500	0
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24NG	15.99	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.04	0.33
tblFleetMix	LDT2	0.18	0.33
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.5580e-003	0.00
tblFleetMix	MCY	6.1810e-003	0.00
tblFleetMix	MDV	0.11	0.34

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tblFleetMix	MH	1.2710e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.9020e-003	0.00
tblFleetMix	SBUS	7.4500e-004	0.00
tblFleetMix	UBUS	2.0240e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	268.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	200.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CC_TL	6.60	68.00
tblVehicleTrips	CNW_TL	6.60	68.00
tblVehicleTrips	CW_TL	14.70	68.00
tblVehicleTrips	ST_TR	2.46	2.40
tblVehicleTrips	SU_TR	1.05	2.40
tblVehicleTrips	WD_TR	11.03	2.40

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0531	0.5339	0.4186	6.6000e-004	3.2800e-003	0.0325	0.0358	1.0500e-003	0.0300	0.0311	0.0000	58.8581	58.8581	0.0170	0.0000	59.2839
2020	0.0625	0.0404	0.0391	6.0000e-005	6.2000e-004	2.3100e-003	2.9400e-003	1.7000e-004	2.1600e-003	2.3300e-003	0.0000	5.5834	5.5834	1.4000e-003	0.0000	5.6184
Maximum	0.0625	0.5339	0.4186	6.6000e-004	3.2800e-003	0.0325	0.0358	1.0500e-003	0.0300	0.0311	0.0000	58.8581	58.8581	0.0170	0.0000	59.2839

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0531	0.5339	0.4186	6.6000e-004	3.2800e-003	0.0325	0.0358	1.0500e-003	0.0300	0.0311	0.0000	58.8580	58.8580	0.0170	0.0000	59.2838
2020	0.0625	0.0404	0.0391	6.0000e-005	6.2000e-004	2.3100e-003	2.9400e-003	1.7000e-004	2.1600e-003	2.3300e-003	0.0000	5.5834	5.5834	1.4000e-003	0.0000	5.6184
Maximum	0.0625	0.5339	0.4186	6.6000e-004	3.2800e-003	0.0325	0.0358	1.0500e-003	0.0300	0.0311	0.0000	58.8580	58.8580	0.0170	0.0000	59.2838

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2019	10-31-2019	0.3502	0.3502
2	11-1-2019	1-31-2020	0.3423	0.3423
		Highest	0.3502	0.3502

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	13.9090	13.9090	8.8000e-004	1.8000e-004	13.9856
Mobile	0.0111	0.0376	0.3343	1.1400e-003	0.0900	6.1000e-004	0.0907	0.0239	5.7000e-004	0.0245	0.0000	102.8483	102.8483	2.7100e-003	0.0000	102.9160
Stationary	0.0192	0.0537	0.0490	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	8.9107	8.9107	1.2500e-003	0.0000	8.9419
Waste						0.0000	0.0000		0.0000	0.0000	0.9439	0.0000	0.9439	0.0558	0.0000	2.3385
Water						0.0000	0.0000		0.0000	0.0000	0.2819	3.6475	3.9294	0.0292	7.3000e-004	4.8772
Total	0.0498	0.0912	0.3833	1.2300e-003	0.0900	3.4300e-003	0.0935	0.0239	3.3900e-003	0.0273	1.2258	129.3155	130.5413	0.0898	9.1000e-004	133.0592

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	13.9090	13.9090	8.8000e-004	1.8000e-004	13.9856
Mobile	0.0111	0.0376	0.3343	1.1400e-003	0.0900	6.1000e-004	0.0907	0.0239	5.7000e-004	0.0245	0.0000	102.8483	102.8483	2.7100e-003	0.0000	102.9160
Stationary	0.0192	0.0537	0.0490	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	8.9107	8.9107	1.2500e-003	0.0000	8.9419
Waste						0.0000	0.0000		0.0000	0.0000	0.9439	0.0000	0.9439	0.0558	0.0000	2.3385
Water						0.0000	0.0000		0.0000	0.0000	0.2819	3.6475	3.9294	0.0292	7.3000e-004	4.8772
Total	0.0498	0.0912	0.3833	1.2300e-003	0.0900	3.4300e-003	0.0935	0.0239	3.3900e-003	0.0273	1.2258	129.3155	130.5413	0.0898	9.1000e-004	133.0592

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/14/2020	1/20/2020	5	5	
2	Building Construction	Building Construction	8/20/2019	1/6/2020	5	100	
3	Demolition	Demolition	8/1/2019	8/14/2019	5	10	
4	Grading	Grading	8/16/2019	8/19/2019	5	2	
5	Paving	Paving	1/7/2020	1/13/2020	5	5	
6	Site Preparation	Site Preparation	8/15/2019	8/15/2019	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Architectural Coating	1	0.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0586	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

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3.2 Architectural Coating - 2020**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0586	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

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3.2 Architectural Coating - 2020**Mitigated Construction Off-Site**

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

3.3 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0460	0.4714	0.3621	5.5000e-004		0.0291	0.0291		0.0267	0.0267	0.0000	49.1042	49.1042	0.0155	0.0000	49.4926
Total	0.0460	0.4714	0.3621	5.5000e-004		0.0291	0.0291		0.0267	0.0267	0.0000	49.1042	49.1042	0.0155	0.0000	49.4926

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3.3 Building Construction - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	5.7400e-003	1.5400e-003	1.0000e-005	2.9000e-004	4.0000e-005	3.3000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.1771	1.1771	1.0000e-004	0.0000	1.1796
Worker	5.3000e-004	4.3000e-004	4.0700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1065	1.1065	3.0000e-005	0.0000	1.1073
Total	7.4000e-004	6.1700e-003	5.6100e-003	2.0000e-005	1.4900e-003	5.0000e-005	1.5400e-003	4.0000e-004	5.0000e-005	4.5000e-004	0.0000	2.2836	2.2836	1.3000e-004	0.0000	2.2869

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0460	0.4714	0.3621	5.5000e-004		0.0291	0.0291		0.0267	0.0267	0.0000	49.1042	49.1042	0.0155	0.0000	49.4926
Total	0.0460	0.4714	0.3621	5.5000e-004		0.0291	0.0291		0.0267	0.0267	0.0000	49.1042	49.1042	0.0155	0.0000	49.4926

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3.3 Building Construction - 2019**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	2.1000e-004	5.7400e-003	1.5400e-003	1.0000e-005	2.9000e-004	4.0000e-005	3.3000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	1.1771	1.1771	1.0000e-004	0.0000	1.1796
Worker	5.3000e-004	4.3000e-004	4.0700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1065	1.1065	3.0000e-005	0.0000	1.1073
Total	7.4000e-004	6.1700e-003	5.6100e-003	2.0000e-005	1.4900e-003	5.0000e-005	1.5400e-003	4.0000e-004	5.0000e-005	4.5000e-004	0.0000	2.2836	2.2836	1.3000e-004	0.0000	2.2869

3.3 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7200e-003	0.0177	0.0148	2.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.0012	2.0012	6.5000e-004	0.0000	2.0174
Total	1.7200e-003	0.0177	0.0148	2.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.0012	2.0012	6.5000e-004	0.0000	2.0174

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3.3 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0487	0.0487	0.0000	0.0000	0.0488
Worker	2.0000e-005	2.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0447	0.0447	0.0000	0.0000	0.0447
Total	3.0000e-005	2.4000e-004	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0934	0.0934	0.0000	0.0000	0.0935

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7200e-003	0.0177	0.0148	2.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.0012	2.0012	6.5000e-004	0.0000	2.0174
Total	1.7200e-003	0.0177	0.0148	2.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	2.0012	2.0012	6.5000e-004	0.0000	2.0174

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3.3 Building Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0487	0.0487	0.0000	0.0000	0.0488
Worker	2.0000e-005	2.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0447	0.0447	0.0000	0.0000	0.0447
Total	3.0000e-005	2.4000e-004	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0934	0.0934	0.0000	0.0000	0.0935

3.4 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	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852
Total	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852

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3.4 Demolition - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.1200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5763	0.5763	2.0000e-005	0.0000	0.5767
Total	2.8000e-004	2.2000e-004	2.1200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5763	0.5763	2.0000e-005	0.0000	0.5767

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852
Total	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852

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3.4 Demolition - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.1200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5763	0.5763	2.0000e-005	0.0000	0.5767
Total	2.8000e-004	2.2000e-004	2.1200e-003	1.0000e-005	6.2000e-004	0.0000	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5763	0.5763	2.0000e-005	0.0000	0.5767

3.5 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
Total	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005	7.5000e-004	5.4000e-004	1.2900e-003	4.1000e-004	5.1000e-004	9.2000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570

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3.5 Grading - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1153	0.1153	0.0000	0.0000	0.1154
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1153	0.1153	0.0000	0.0000	0.1154

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
Total	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005	7.5000e-004	5.4000e-004	1.2900e-003	4.1000e-004	5.1000e-004	9.2000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570

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3.5 Grading - 2019**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	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1153	0.1153	0.0000	0.0000	0.1154
Total	6.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1153	0.1153	0.0000	0.0000	0.1154

3.6 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

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3.6 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.8000e-004	1.7400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5023	0.5023	1.0000e-005	0.0000	0.5026
Total	2.3000e-004	1.8000e-004	1.7400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5023	0.5023	1.0000e-005	0.0000	0.5026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

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3.6 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.8000e-004	1.7400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5023	0.5023	1.0000e-005	0.0000	0.5026
Total	2.3000e-004	1.8000e-004	1.7400e-003	1.0000e-005	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5023	0.5023	1.0000e-005	0.0000	0.5026

3.7 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
Total	3.6000e-004	4.4600e-003	2.0700e-003	0.0000	2.7000e-004	1.8000e-004	4.5000e-004	3.0000e-005	1.7000e-004	2.0000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413

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3.7 Site Preparation - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0288	0.0288	0.0000	0.0000	0.0288
Total	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0288	0.0288	0.0000	0.0000	0.0288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
Total	3.6000e-004	4.4600e-003	2.0700e-003	0.0000	2.7000e-004	1.8000e-004	4.5000e-004	3.0000e-005	1.7000e-004	2.0000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413

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3.7 Site Preparation - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0288	0.0288	0.0000	0.0000	0.0288
Total	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0288	0.0288	0.0000	0.0000	0.0288

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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0111	0.0376	0.3343	1.1400e-003	0.0900	6.1000e-004	0.0907	0.0239	5.7000e-004	0.0245	0.0000	102.8483	102.8483	2.7100e-003	0.0000	102.9160
Unmitigated	0.0111	0.0376	0.3343	1.1400e-003	0.0900	6.1000e-004	0.0907	0.0239	5.7000e-004	0.0245	0.0000	102.8483	102.8483	2.7100e-003	0.0000	102.9160

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	12.00	12.00	12.00	242,835	242,835
Total	12.00	12.00	12.00	242,835	242,835

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	68.00	68.00	68.00	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.000000	0.330000	0.330000	0.340000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Operation - San Diego County, Annual

5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Campo Wind Operation - 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					
General Office Building	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	67200	13.9090	8.8000e-004	1.8000e-004	13.9856
Total		13.9090	8.8000e-004	1.8000e-004	13.9856

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	67200	13.9090	8.8000e-004	1.8000e-004	13.9856
Total		13.9090	8.8000e-004	1.8000e-004	13.9856

6.0 Area Detail

6.1 Mitigation Measures Area

[illegible]

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

Campo Wind Operation - San Diego County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.9294	0.0292	7.3000e-004	4.8772
Unmitigated	3.9294	0.0292	7.3000e-004	4.8772

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	3.9294	0.0292	7.3000e-004	4.8772
Total		3.9294	0.0292	7.3000e-004	4.8772

Campo Wind Operation - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	3.9294	0.0292	7.3000e-004	4.8772
Total		3.9294	0.0292	7.3000e-004	4.8772

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9439	0.0558	0.0000	2.3385
Unmitigated	0.9439	0.0558	0.0000	2.3385

Campo Wind Operation - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Total		0.9439	0.0558	0.0000	2.3385

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Total		0.9439	0.0558	0.0000	2.3385

9.0 Operational Offroad

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

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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	268	0.73	Diesel
Emergency Generator	1	0.5	50	200	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (175 - 300 HP)	0.0192	0.0537	0.0490	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	8.9107	8.9107	1.2500e-003	0.0000	8.9419
Total	0.0192	0.0537	0.0490	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	8.9107	8.9107	1.2500e-003	0.0000	8.9419

11.0 Vegetation

Campo Wind Operation - San Diego County, Summer

Campo Wind Operation

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Operation - San Diego County, Summer

Project Characteristics - Includes RPS for 2016 SDG&E. Project operation only.

Land Use -

Vehicle Trips - Assume 12 employees, 7 days a week. Assume to start from port of SD.

Energy Use - Electrical use only.

Stationary Sources - Emergency Generators and Fire Pumps -

Fleet Mix - Assume employees drive light duty trucks for O&M activities

Consumer Products - No consumer products

Area Coating - Assume no architectural coating reapplication

Landscape Equipment - minimal to none landscape

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaCoating	Area_Nonresidential_Exterior	2500	0
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24NG	15.99	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.04	0.33
tblFleetMix	LDT2	0.18	0.33
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.5580e-003	0.00
tblFleetMix	MCY	6.1810e-003	0.00
tblFleetMix	MDV	0.11	0.34

Campo Wind Operation - San Diego County, Summer

tblFleetMix	MH	1.2710e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.9020e-003	0.00
tblFleetMix	SBUS	7.4500e-004	0.00
tblFleetMix	UBUS	2.0240e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	268.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	200.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CC_TL	6.60	68.00
tblVehicleTrips	CNW_TL	6.60	68.00
tblVehicleTrips	CW_TL	14.70	68.00
tblVehicleTrips	ST_TR	2.46	2.40
tblVehicleTrips	SU_TR	1.05	2.40
tblVehicleTrips	WD_TR	11.03	2.40

2.0 Emissions Summary

Campo Wind Operation - San Diego County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.0074	9.9471	8.1467	0.0133	0.8805	0.6063	1.4185	0.4477	0.5579	0.9609	0.0000	1,293.7015	1,293.7015	0.3598	0.0000	1,299.3334
2020	23.4172	8.9676	7.8634	0.0136	0.2299	0.5231	0.6265	0.0610	0.4812	0.4898	0.0000	1,269.0537	1,269.0537	0.3596	0.0000	1,276.7633
Maximum	23.4172	9.9471	8.1467	0.0136	0.8805	0.6063	1.4185	0.4477	0.5579	0.9609	0.0000	1,293.7015	1,293.7015	0.3598	0.0000	1,299.3334

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.0074	9.9471	8.1467	0.0133	0.8805	0.6063	1.4185	0.4477	0.5579	0.9609	0.0000	1,293.7015	1,293.7015	0.3598	0.0000	1,299.3334
2020	23.4172	8.9676	7.8634	0.0136	0.2299	0.5231	0.6265	0.0610	0.4812	0.4898	0.0000	1,269.0537	1,269.0537	0.3596	0.0000	1,276.7633
Maximum	23.4172	9.9471	8.1467	0.0136	0.8805	0.6063	1.4185	0.4477	0.5579	0.9609	0.0000	1,293.7015	1,293.7015	0.3598	0.0000	1,299.3334

[illegible]

Campo Wind Operation - 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	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0652	0.1869	2.0075	6.6000e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		657.5641	657.5641	0.0174		658.0001
Stationary	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349
Total	0.5562	1.2602	2.9871	8.4500e-003	0.5068	0.0599	0.5667	0.1344	0.0596	0.1940		854.0115	854.0115	0.0450	0.0000	855.1362

Campo Wind Operation - San Diego County, Summer

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	lb/day										lb/day					
Area	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0652	0.1869	2.0075	6.6000e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		657.5641	657.5641	0.0174		658.0001
Stationary	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349
Total	0.5562	1.2602	2.9871	8.4500e-003	0.5068	0.0599	0.5667	0.1344	0.0596	0.1940		854.0115	854.0115	0.0450	0.0000	855.1362

	ROG	NOx	CO	SO2	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**

Campo Wind Operation - San Diego County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/14/2020	1/20/2020	5	5	
2	Building Construction	Building Construction	8/20/2019	1/6/2020	5	100	
3	Demolition	Demolition	8/1/2019	8/14/2019	5	10	
4	Grading	Grading	8/16/2019	8/19/2019	5	2	
5	Paving	Paving	1/7/2020	1/13/2020	5	5	
6	Site Preparation	Site Preparation	8/15/2019	8/15/2019	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Campo Wind Operation - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Architectural Coating	1	0.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Campo Wind Operation - San Diego County, Summer

3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	23.4172	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Campo Wind Operation - San Diego County, Summer

3.2 Architectural Coating - 2020**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	23.4172	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Campo Wind Operation - San Diego County, Summer

3.2 Architectural Coating - 2020**Mitigated Construction Off-Site**

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

3.3 Building Construction - 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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892

Campo Wind Operation - San Diego County, Summer

3.3 Building Construction - 2019**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	4.3200e-003	0.1183	0.0304	2.6000e-004	6.1200e-003	7.8000e-004	6.9100e-003	1.7600e-003	7.5000e-004	2.5100e-003		27.3482	27.3482	2.1800e-003		27.4026
Worker	0.0109	8.1400e-003	0.0910	2.7000e-004	0.0256	1.8000e-004	0.0257	6.7700e-003	1.6000e-004	6.9400e-003		26.8089	26.8089	8.3000e-004		26.8297
Total	0.0152	0.1264	0.1214	5.3000e-004	0.0317	9.6000e-004	0.0326	8.5300e-003	9.1000e-004	9.4500e-003		54.1571	54.1571	3.0100e-003		54.2324

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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892

Campo Wind Operation - San Diego County, Summer

3.3 Building Construction - 2019**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	4.3200e-003	0.1183	0.0304	2.6000e-004	6.1200e-003	7.8000e-004	6.9100e-003	1.7600e-003	7.5000e-004	2.5100e-003		27.3482	27.3482	2.1800e-003		27.4026
Worker	0.0109	8.1400e-003	0.0910	2.7000e-004	0.0256	1.8000e-004	0.0257	6.7700e-003	1.6000e-004	6.9400e-003		26.8089	26.8089	8.3000e-004		26.8297
Total	0.0152	0.1264	0.1214	5.3000e-004	0.0317	9.6000e-004	0.0326	8.5300e-003	9.1000e-004	9.4500e-003		54.1571	54.1571	3.0100e-003		54.2324

3.3 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.896 2
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.8962

Campo Wind Operation - San Diego County, Summer

3.3 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.5200e-003	0.1079	0.0273	2.5000e-004	6.1200e-003	5.0000e-004	6.6300e-003	1.7600e-003	4.8000e-004	2.2400e-003		27.1717	27.1717	2.0600e-003		27.2233
Worker	0.0102	7.3500e-003	0.0834	2.6000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		25.9623	25.9623	7.6000e-004		25.9812
Total	0.0137	0.1152	0.1107	5.1000e-004	0.0317	6.7000e-004	0.0324	8.5300e-003	6.4000e-004	9.1700e-003		53.1341	53.1341	2.8200e-003		53.2045

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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962

Campo Wind Operation - San Diego County, Summer

3.3 Building Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.5200e-003	0.1079	0.0273	2.5000e-004	6.1200e-003	5.0000e-004	6.6300e-003	1.7600e-003	4.8000e-004	2.2400e-003		27.1717	27.1717	2.0600e-003		27.2233
Worker	0.0102	7.3500e-003	0.0834	2.6000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		25.9623	25.9623	7.6000e-004		25.9812
Total	0.0137	0.1152	0.1107	5.1000e-004	0.0317	6.7000e-004	0.0324	8.5300e-003	6.4000e-004	9.1700e-003		53.1341	53.1341	2.8200e-003		53.2045

3.4 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	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Summer

3.4 Demolition - 2019**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	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487
Total	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487

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	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Summer

3.4 Demolition - 2019**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	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487
Total	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487

3.5 Grading - 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					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7528	0.5371	1.2898	0.4138	0.5125	0.9263		1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Summer

3.5 Grading - 2019**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	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487
Total	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7528	0.5371	1.2898	0.4138	0.5125	0.9263	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Summer

3.5 Grading - 2019**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	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487
Total	0.0544	0.0407	0.4549	1.3500e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		134.0445	134.0445	4.1700e-003		134.1487

3.6 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Campo Wind Operation - San Diego County, Summer

3.6 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0916	0.0661	0.7507	2.3400e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		233.6611	233.6611	6.8000e-003		233.8310
Total	0.0916	0.0661	0.7507	2.3400e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		233.6611	233.6611	6.8000e-003		233.8310

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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Campo Wind Operation - San Diego County, Summer

3.6 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0916	0.0661	0.7507	2.3400e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		233.6611	233.6611	6.8000e-003		233.8310
Total	0.0916	0.0661	0.7507	2.3400e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		233.6611	233.6611	6.8000e-003		233.8310

3.7 Site Preparation - 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					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.5303	0.3672	0.8975	0.0573	0.3378	0.3951		965.1690	965.1690	0.3054		972.8032

Campo Wind Operation - San Diego County, Summer

3.7 Site Preparation - 2019**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	0.0272	0.0203	0.2275	6.7000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		67.0223	67.0223	2.0800e-003		67.0744
Total	0.0272	0.0203	0.2275	6.7000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		67.0223	67.0223	2.0800e-003		67.0744

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378	0.0000	965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.5303	0.3672	0.8975	0.0573	0.3378	0.3951	0.0000	965.1690	965.1690	0.3054		972.8032

Campo Wind Operation - San Diego County, Summer

3.7 Site Preparation - 2019**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	0.0272	0.0203	0.2275	6.7000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		67.0223	67.0223	2.0800e-003		67.0744
Total	0.0272	0.0203	0.2275	6.7000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		67.0223	67.0223	2.0800e-003		67.0744

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

Campo Wind Operation - 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	0.0652	0.1869	2.0075	6.6000e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		657.5641	657.5641	0.0174		658.0001
Unmitigated	0.0652	0.1869	2.0075	6.6000e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		657.5641	657.5641	0.0174		658.0001

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	12.00	12.00	12.00	242,835	242,835
Total	12.00	12.00	12.00	242,835	242,835

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	68.00	68.00	68.00	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.000000	0.330000	0.330000	0.340000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Operation - San Diego County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Office Building	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Campo Wind Operation - 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					
General Office Building	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Campo Wind Operation - San Diego County, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

Campo Wind Operation - San Diego County, Summer

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	268	0.73	Diesel
Emergency Generator	1	0.5	50	200	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

Campo Wind Operation - San Diego County, Summer

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (175 - 300 HP)	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349
Total	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349

11.0 Vegetation

Campo Wind Operation - San Diego County, Winter

Campo Wind Operation

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	456.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Operation - San Diego County, Winter

Project Characteristics - Includes RPS for 2016 SDG&E. Project operation only.

Land Use -

Vehicle Trips - Assume 12 employees, 7 days a week. Assume to start from port of SD.

Energy Use - Electrical use only.

Stationary Sources - Emergency Generators and Fire Pumps -

Fleet Mix - Assume employees drive light duty trucks for O&M activities

Consumer Products - No consumer products

Area Coating - Assume no architectural coating reapplication

Landscape Equipment - minimal to none landscape

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaCoating	Area_Nonresidential_Exterior	2500	0
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24NG	15.99	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.04	0.33
tblFleetMix	LDT2	0.18	0.33
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.5580e-003	0.00
tblFleetMix	MCY	6.1810e-003	0.00
tblFleetMix	MDV	0.11	0.34

Campo Wind Operation - San Diego County, Winter

tblFleetMix	MH	1.2710e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.9020e-003	0.00
tblFleetMix	SBUS	7.4500e-004	0.00
tblFleetMix	UBUS	2.0240e-003	0.00
tblProjectCharacteristics	CO2IntensityFactor	720.49	456.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	268.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	200.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CC_TL	6.60	68.00
tblVehicleTrips	CNW_TL	6.60	68.00
tblVehicleTrips	CW_TL	14.70	68.00
tblVehicleTrips	ST_TR	2.46	2.40
tblVehicleTrips	SU_TR	1.05	2.40
tblVehicleTrips	WD_TR	11.03	2.40

2.0 Emissions Summary

Campo Wind Operation - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.0159	9.9480	8.1128	0.0132	0.8805	0.6064	1.4185	0.4477	0.5579	0.9609	0.0000	1,285.4398	1,285.4398	0.3599	0.0000	1,291.0653
2020	23.4172	8.9682	7.8060	0.0135	0.2299	0.5231	0.6265	0.0610	0.4812	0.4898	0.0000	1,254.6488	1,254.6488	0.3596	0.0000	1,262.3478
Maximum	23.4172	9.9480	8.1128	0.0135	0.8805	0.6064	1.4185	0.4477	0.5579	0.9609	0.0000	1,285.4398	1,285.4398	0.3599	0.0000	1,291.0653

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.0159	9.9480	8.1128	0.0132	0.8805	0.6064	1.4185	0.4477	0.5579	0.9609	0.0000	1,285.4398	1,285.4398	0.3599	0.0000	1,291.0653
2020	23.4172	8.9682	7.8060	0.0135	0.2299	0.5231	0.6265	0.0610	0.4812	0.4898	0.0000	1,254.6488	1,254.6488	0.3596	0.0000	1,262.3478
Maximum	23.4172	9.9480	8.1128	0.0135	0.8805	0.6064	1.4185	0.4477	0.5579	0.9609	0.0000	1,285.4398	1,285.4398	0.3599	0.0000	1,291.0653

[illegible]

Campo Wind Operation - 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	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0616	0.2099	1.8180	6.1900e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		617.5256	617.5256	0.0162		617.9311
Stationary	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349
Total	0.5526	1.2832	2.7977	8.0400e-003	0.5068	0.0599	0.5667	0.1344	0.0596	0.1940		813.9730	813.9730	0.0438	0.0000	815.0671

Campo Wind Operation - San Diego County, Winter

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	lb/day										lb/day					
Area	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0616	0.2099	1.8180	6.1900e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		617.5256	617.5256	0.0162		617.9311
Stationary	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349
Total	0.5526	1.2832	2.7977	8.0400e-003	0.5068	0.0599	0.5667	0.1344	0.0596	0.1940		813.9730	813.9730	0.0438	0.0000	815.0671

	ROG	NOx	CO	SO2	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**

Campo Wind Operation - San Diego County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/14/2020	1/20/2020	5	5	
2	Building Construction	Building Construction	8/20/2019	1/6/2020	5	100	
3	Demolition	Demolition	8/1/2019	8/14/2019	5	10	
4	Grading	Grading	8/16/2019	8/19/2019	5	2	
5	Paving	Paving	1/7/2020	1/13/2020	5	5	
6	Site Preparation	Site Preparation	8/15/2019	8/15/2019	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Campo Wind Operation - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Architectural Coating	1	0.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00		16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Campo Wind Operation - San Diego County, Winter

3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	23.4172	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Campo Wind Operation - San Diego County, Winter

3.2 Architectural Coating - 2020**Unmitigated Construction Off-Site**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.1750					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	23.4172	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Campo Wind Operation - San Diego County, Winter

3.2 Architectural Coating - 2020**Mitigated Construction Off-Site**

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

3.3 Building Construction - 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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892

Campo Wind Operation - San Diego County, Winter

3.3 Building Construction - 2019**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	4.5100e-003	0.1182	0.0339	2.5000e-004	6.1200e-003	8.0000e-004	6.9200e-003	1.7600e-003	7.7000e-004	2.5300e-003		26.5966	26.5966	2.3200e-003		26.6546
Worker	0.0126	9.1300e-003	0.0842	2.5000e-004	0.0256	1.8000e-004	0.0257	6.7700e-003	1.6000e-004	6.9400e-003		25.1566	25.1566	7.8000e-004		25.1761
Total	0.0171	0.1273	0.1181	5.0000e-004	0.0317	9.8000e-004	0.0326	8.5300e-003	9.3000e-004	9.4700e-003		51.7531	51.7531	3.1000e-003		51.8308

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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892

Campo Wind Operation - San Diego County, Winter

3.3 Building Construction - 2019**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	4.5100e-003	0.1182	0.0339	2.5000e-004	6.1200e-003	8.0000e-004	6.9200e-003	1.7600e-003	7.7000e-004	2.5300e-003		26.5966	26.5966	2.3200e-003		26.6546
Worker	0.0126	9.1300e-003	0.0842	2.5000e-004	0.0256	1.8000e-004	0.0257	6.7700e-003	1.6000e-004	6.9400e-003		25.1566	25.1566	7.8000e-004		25.1761
Total	0.0171	0.1273	0.1181	5.0000e-004	0.0317	9.8000e-004	0.0326	8.5300e-003	9.3000e-004	9.4700e-003		51.7531	51.7531	3.1000e-003		51.8308

3.3 Building Construction - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.896 2
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.978 1	1,102.978 1	0.3567		1,111.8962

Campo Wind Operation - San Diego County, Winter

3.3 Building Construction - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.6900e-003	0.1076	0.0305	2.5000e-004	6.1200e-003	5.1000e-004	6.6400e-003	1.7600e-003	4.9000e-004	2.2500e-003		26.4139	26.4139	2.2000e-003		26.4689
Worker	0.0118	8.2500e-003	0.0770	2.4000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		24.3618	24.3618	7.1000e-004		24.3795
Total	0.0155	0.1159	0.1075	4.9000e-004	0.0317	6.8000e-004	0.0324	8.5300e-003	6.5000e-004	9.1800e-003		50.7757	50.7757	2.9100e-003		50.8484

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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962

Campo Wind Operation - San Diego County, Winter

3.3 Building Construction - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.6900e-003	0.1076	0.0305	2.5000e-004	6.1200e-003	5.1000e-004	6.6400e-003	1.7600e-003	4.9000e-004	2.2500e-003		26.4139	26.4139	2.2000e-003		26.4689
Worker	0.0118	8.2500e-003	0.0770	2.4000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		24.3618	24.3618	7.1000e-004		24.3795
Total	0.0155	0.1159	0.1075	4.9000e-004	0.0317	6.8000e-004	0.0324	8.5300e-003	6.5000e-004	9.1800e-003		50.7757	50.7757	2.9100e-003		50.8484

3.4 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	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Winter

3.4 Demolition - 2019**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	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807
Total	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807

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	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Winter

3.4 Demolition - 2019**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	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807
Total	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807

3.5 Grading - 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					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7528	0.5371	1.2898	0.4138	0.5125	0.9263		1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Winter

3.5 Grading - 2019**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	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807
Total	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120	0.7528	0.5371	1.2898	0.4138	0.5125	0.9263	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

Campo Wind Operation - San Diego County, Winter

3.5 Grading - 2019**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	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807
Total	0.0629	0.0457	0.4211	1.2600e-003	0.1277	8.8000e-004	0.1286	0.0339	8.1000e-004	0.0347		125.7828	125.7828	3.9200e-003		125.8807

3.6 Paving - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

Campo Wind Operation - San Diego County, Winter

3.6 Paving - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0742	0.6932	2.2000e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		219.2562	219.2562	6.3700e-003		219.4155
Total	0.1062	0.0742	0.6932	2.2000e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		219.2562	219.2562	6.3700e-003		219.4155

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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

Campo Wind Operation - San Diego County, Winter

3.6 Paving - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1062	0.0742	0.6932	2.2000e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		219.2562	219.2562	6.3700e-003		219.4155
Total	0.1062	0.0742	0.6932	2.2000e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		219.2562	219.2562	6.3700e-003		219.4155

3.7 Site Preparation - 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					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.5303	0.3672	0.8975	0.0573	0.3378	0.3951		965.1690	965.1690	0.3054		972.8032

Campo Wind Operation - San Diego County, Winter

3.7 Site Preparation - 2019**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	0.0315	0.0228	0.2105	6.3000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		62.8914	62.8914	1.9600e-003		62.9403
Total	0.0315	0.0228	0.2105	6.3000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		62.8914	62.8914	1.9600e-003		62.9403

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378	0.0000	965.1690	965.1690	0.3054		972.8032
Total	0.7195	8.9170	4.1407	9.7500e-003	0.5303	0.3672	0.8975	0.0573	0.3378	0.3951	0.0000	965.1690	965.1690	0.3054		972.8032

Campo Wind Operation - San Diego County, Winter

3.7 Site Preparation - 2019**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	0.0315	0.0228	0.2105	6.3000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		62.8914	62.8914	1.9600e-003		62.9403
Total	0.0315	0.0228	0.2105	6.3000e-004	0.0639	4.4000e-004	0.0643	0.0169	4.0000e-004	0.0173		62.8914	62.8914	1.9600e-003		62.9403

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

Campo Wind Operation - 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	0.0616	0.2099	1.8180	6.1900e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		617.5256	617.5256	0.0162		617.9311
Unmitigated	0.0616	0.2099	1.8180	6.1900e-003	0.5068	3.3800e-003	0.5102	0.1344	3.1100e-003	0.1375		617.5256	617.5256	0.0162		617.9311

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	12.00	12.00	12.00	242,835	242,835
Total	12.00	12.00	12.00	242,835	242,835

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	68.00	68.00	68.00	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.000000	0.330000	0.330000	0.340000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Operation - San Diego County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Office Building	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Campo Wind Operation - 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					
General Office Building	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
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

Campo Wind Operation - San Diego County, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Total	0.1071	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

7.0 Water Detail

Campo Wind Operation - San Diego County, Winter

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	268	0.73	Diesel
Emergency Generator	1	0.5	50	200	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

Campo Wind Operation - San Diego County, Winter

10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (175 - 300 HP)	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349
Total	0.3840	1.0733	0.9791	1.8500e-003		0.0565	0.0565		0.0565	0.0565		196.4463	196.4463	0.0275		197.1349

11.0 Vegetation

Unmitigated Emissions

Pollutant	Transfer	Crushing	Screening	Transfer	Crushing	Screening	Total	Rock Crushing		Concrete Batch Plant					Haul Roads				Blasting				Total	
	ppmw			lb/day				lb/year	lb/hour	ppmw	lb/lb TSP	lb/day	lb/year	lb/hour	ppmw	lb/day	lb/year	lb/hour	ppmw	lb/day	lb/year	lb/hour	lb/year	lb/hour
Arsenic	22	22	22	6.15E-05	8.08E-05	1.11E-04	2.53E-04	1.57E-02	3.16E-05	15	1.4E-05	1.47E-05	2.20E-03	1.83E-06	20	1.2784E-05	0.00288	1.6E-06	15	2.76E-05	5.52E-03	3.45E-06	0.026284	0.000039
Beryllium	1	1	1	2.79E-06	3.67E-06	5.03E-06	1.15E-05	7.13E-04	1.44E-06	1	1E-06	1.05E-06	1.57E-04	1.31E-07	1	6.392E-07	0.00014	8E-08	1	1.84E-06	3.68E-04	2.30E-07	0.001382	0.000002
Cadmium	1	1	1	2.79E-06	3.67E-06	5.03E-06	1.15E-05	7.13E-04	1.44E-06	1	1E-06	1.05E-06	1.57E-04	1.31E-07	1	6.392E-07	0.00014	8E-08	1	1.84E-06	3.68E-04	2.30E-07	0.001382	0.000002
Copper	37	37	37	1.03E-04	1.36E-04	1.86E-04	4.25E-04	2.64E-02	5.32E-05	46	4.2E-05	4.40E-05	6.60E-03	5.50E-06	100	0.00006392	0.01438	8E-06	94	1.73E-04	3.46E-02	2.16E-05	0.081979	0.000088
Lead	50	50	50	1.40E-04	1.84E-04	2.52E-04	5.75E-04	3.56E-02	7.19E-05	33	0.00003	3.14E-05	4.72E-03	3.93E-06	50	0.00003196	0.00719	4E-06	30	5.52E-05	1.10E-02	6.90E-06	0.058598	0.000087
Manganese	530	530	530	1.48E-03	1.95E-03	2.67E-03	6.09E-03	3.78E-01	7.62E-04	420	0.00039	4.04E-04	6.07E-02	5.06E-05	500	0.0003196	0.07191	4E-05	565	1.04E-03	2.08E-01	1.30E-04	0.718481	0.000982
Nickel	28	28	28	7.82E-05	1.03E-04	1.41E-04	3.22E-04	2.00E-02	4.02E-05	18	1.7E-05	1.78E-05	2.67E-03	2.23E-06	20	1.2784E-05	0.00288	1.6E-06	30	5.52E-05	1.10E-02	6.90E-06	0.036557	0.000051
Selenium	1	1	1	2.79E-06	3.67E-06	5.03E-06	1.15E-05	7.13E-04	1.44E-06	1	1E-06	1.05E-06	1.57E-04	1.31E-07	5	3.196E-06	0.00072	4E-07	1	1.84E-06	3.68E-04	2.30E-07	0.001957	0.000002
Silica, Crystalline	100000	100000	100000	2.79E-01	3.67E-01	5.03E-01	1.15E+00	7.13E+01	1.44E-01	100000	0.092	9.64E-02	1.45E+01	1.21E-02	100000	0.06392	14.382	0.00799	100000	1.84E-01	3.68E+01	2.30E-02	136.957312	0.186760

- Notes:** Pollutants without defined reference exposure levels were excluded from this calculation.
- 1 Based on emission factors from SDAPCD T01 - Transfer Point, Process Material, Dry, Uncontrolled, AWR/MPI/District 4/9/96 Methodology.
 - 2 Based on emission factors from SDAPCD C01 - Primary Crushing, Primary Material, Uncontrolled, AWR/MPI/District 4/9/96 Methodology.
 - 3 Based on emission factors from SDAPCD S01 - Screening Operation, Process Material, Dry, Uncontrolled, AWR/MPI/District 4/9/96 Methodology.
 - 4 Based on emission factors from SDAPCD C04 - Concrete Batch Plant, Central Mix Operation, Section 11.12 AP-42 (1/95), W/Baghouse Controls.
 - 5 Based on emission factors from SDAPCD H01 - Haul Roads, General Paved & Unpaved, Default Trace Metal Composition.
 - 6 Based on emission factors from SDAPCD D04 - Wet Drilling & Blasting Operations, Ammonium Nitrate with Fuel Oil, Bumping, Sections 11.9, 11.19, & 13.3 of AP-42 (1/95).

Mitigated Emissions

Pollutant	Transfer	Crushing	Screening	Transfer	Crushing	Screening	Total	Rock Crushing		Concrete Batch Plant					Haul Roads				Blasting				Total	
	ppmw			lb/day				lb/year	lb/hour	ppmw	lb/lb TSP	lb/day	lb/year	lb/hour	ppmw	lb/day	lb/year	lb/hour	ppmw	lb/day	lb/year	lb/hour	lb/year	lb/hour
Arsenic	22	22	22	6.15E-05	8.08E-05	1.11E-04	2.53E-04	1.57E-02	3.16E-05	15	1.4E-05	1.47E-05	2.20E-03	1.83E-06	20	1.2784E-05	0.00288	1.6E-06	15	2.76E-05	5.52E-03	3.45E-06	0.026284	0.000039
Beryllium	1	1	1	2.79E-06	3.67E-06	5.03E-06	1.15E-05	7.13E-04	1.44E-06	1	1E-06	1.05E-06	1.57E-04	1.31E-07	1	6.392E-07	0.00014	8E-08	1	1.84E-06	3.68E-04	2.30E-07	0.001382	0.000002
Cadmium	1	1	1	2.79E-06	3.67E-06	5.03E-06	1.15E-05	7.13E-04	1.44E-06	1	1E-06	1.05E-06	1.57E-04	1.31E-07	1	6.392E-07	0.00014	8E-08	1	1.84E-06	3.68E-04	2.30E-07	0.001382	0.000002
Copper	37	37	37	1.03E-04	1.36E-04	1.86E-04	4.25E-04	2.64E-02	5.32E-05	46	4.2E-05	4.40E-05	6.60E-03	5.50E-06	100	0.00006392	0.01438	8E-06	94	1.73E-04	3.46E-02	2.16E-05	0.081979	0.000088
Lead	50	50	50	1.40E-04	1.84E-04	2.52E-04	5.75E-04	3.56E-02	7.19E-05	33	0.00003	3.14E-05	4.72E-03	3.93E-06	50	0.00003196	0.00719	4E-06	30	5.52E-05	1.10E-02	6.90E-06	0.058598	0.000087
Manganese	530	530	530	1.48E-03	1.95E-03	2.67E-03	6.09E-03	3.78E-01	7.62E-04	420	0.00039	4.04E-04	6.07E-02	5.06E-05	500	0.0003196	0.07191	4E-05	565	1.04E-03	2.08E-01	1.30E-04	0.718481	0.000982
Nickel	28	28	28	7.82E-05	1.03E-04	1.41E-04	3.22E-04	2.00E-02	4.02E-05	18	1.7E-05	1.78E-05	2.67E-03	2.23E-06	20	1.2784E-05	0.00288	1.6E-06	30	5.52E-05	1.10E-02	6.90E-06	0.036557	0.000051
Selenium	1	1	1	2.79E-06	3.67E-06	5.03E-06	1.15E-05	7.13E-04	1.44E-06	1	1E-06	1.05E-06	1.57E-04	1.31E-07	5	3.196E-06	0.00072	4E-07	1	1.84E-06	3.68E-04	2.30E-07	0.001957	0.000002
Silica, Crystalline	100000	100000	100000	2.79E-01	3.67E-01	5.03E-01	1.15E+00	7.13E+01	1.44E-01	100000	0.092	9.64E-02	1.45E+01	1.21E-02	100000	0.06392	14.382	0.00799	100000	1.84E-01	3.68E+01	2.30E-02	136.957312	0.186760

- Notes:** Pollutants without defined reference exposure levels were excluded from this calculation.
- 1 Based on emission factors from SDAPCD T01 - Transfer Point, Process Material, Dry, Uncontrolled, AWR/MPI/District 4/9/96 Methodology.
 - 2 Based on emission factors from SDAPCD C01 - Primary Crushing, Primary Material, Uncontrolled, AWR/MPI/District 4/9/96 Methodology.
 - 3 Based on emission factors from SDAPCD S01 - Screening Operation, Process Material, Dry, Uncontrolled, AWR/MPI/District 4/9/96 Methodology.
 - 4 Based on emission factors from SDAPCD C04 - Concrete Batch Plant, Central Mix Operation, Section 11.12 AP-42 (1/95), W/Baghouse Controls.
 - 5 Based on emission factors from SDAPCD H01 - Haul Roads, General Paved & Unpaved, Default Trace Metal Composition.
 - 6 Based on emission factors from SDAPCD D04 - Wet Drilling & Blasting Operations, Ammonium Nitrate with Fuel Oil, Bumping, Sections 11.9, 11.19, & 13.3 of AP-42 (1/95).

Campo Wind GHG Benefits

SDG&E GHG Emission Factor (MT CO ₂ e/MWh) ¹	0.302
CEC RPS Renewables for 2016 (%) ²	43.00
Fossil Fuel GHG Factor (MT CO ₂ e/MWh) ³	0.530
Project Power Production (MWh/yr)	756,000.00
Fossil Fuel MT CO ₂ e	400,547.37
Total GHG Benefit over 30 Years (MT CO ₂ e)	12,016,421.05

Notes: % = percent; CEC = California Energy Commission; GHG = greenhouse gas; MT CO₂e = metric tons of carbon dioxide equivalent; MWh = megawatt hour; RPS = Renewable Portfolio Standard; SDG&E = San Diego Gas & Electric; yr = year

¹ GHG emission factor for SDG&E taken from Energy Policy Initiatives Center Estimating Annual Average Greenhouse Gas Emission Factors for the Electric Sector: A Method for Inventories, June 2016.

² SDG&E renewables as reported in the 2016 CEC Power Content Label

³ Assumes no use of renewable energy

Breaker (kV)	Number of Breakers	Pounds of SF6	MT of SF6	Leak Rate	Global Warming Potential	MT CO2e
500	3	1,209	0.548	0.5%	23,900	65.53
Total						65.53