

APPENDIX C

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**

Prepared for:

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DECEMBER 2019

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
AB	Assembly Bill
ANFO	ammonium nitrate/fuel oil
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officer's Association
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH ₄	methane
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EIR	environmental impact report
EO	Executive Order
EPA	U.S. Environmental Protection Agency
GHG	greenhouse gas
GWP	global warming potential
HFC	hydrofluorocarbon
HRA	health risk assessment
IPCC	Intergovernmental Panel on Climate Change
kV	kilovolts
MMT	million metric ton
MT	metric tons
MW	megawatt
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&M	operations and maintenance
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PDF	project design feature

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Acronym/Abbreviation	Definition
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
RAQS	Regional Air Quality Strategy
RTP	Regional Transportation Plan
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric
SF ₆	sulfur hexafluoride
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SO _x	sulfur oxides
T-BACT	toxics best available control technology
TAC	toxic air contaminants
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 implementation of the proposed Campo Wind Project with Boulder Brush Facilities (Project). This report provides the detailed California Environmental Quality Act (CEQA) analysis of the Project in support of the Environmental Impact Report prepared by the County of San Diego (County). The Bureau of Indian Affairs is the Lead Agency for the Project under the National Environmental Policy Act and has prepared an Environmental Impact Statement (EIS) for the Project.

Project Overview

The Project consists of both the Campo Wind Facilities that would be located on land within the Campo Band of Diegueño Missions Indians Reservation (Reservation) Boundary; and the Boulder Brush Facilities that would be located on adjacent private lands under County jurisdiction, within the Boulder Brush Boundary. Collectively, the Reservation Boundary and Boulder Brush Boundary comprise the Project Area.

The Project as a whole would consist of the development, financing, construction, operation, maintenance and, ultimately the decommissioning of a renewable wind energy generation Project, except for the switchyard and incoming/outgoing connection lines components that would be owned and operated by San Diego Gas & Electric (SDG&E). The Project would consist of 60 wind turbines, three permanent meteorological towers, six temporary meteorological towers, a temporary concrete batch plant for use during construction, a temporary equipment staging and parking area for use during construction, an operations and maintenance facility, water collection and septic systems, access roads, an electrical collection and communications system, an approximately 8.5-mile-long generation transmission (gen-tie) line, a collector substation, a high-voltage substation, and a switchyard to interconnect the Project to the existing SDG&E Sunrise Powerlink.

Impact Analysis Summary

This air quality impact analysis evaluates the potential for significant adverse impacts to air quality due to Project construction and operational emissions. Impacts were evaluated for their significance, in part, based on the County's mass daily criteria air pollutant thresholds of significance (County of San Diego 2007). 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

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aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}. VOCs and NO_x are important because they are precursors to O₃.

Estimated maximum daily operational emissions generated by the Project at full build-out from area, energy, and mobile emission sources were calculated using California Emissions Estimator Model (CalEEMod) Version 2016.3.2 (CAPCOA 2017).¹ Operational year 2021 was assumed upon construction completion.

Air Quality Plan Consistency

In the County's General Plan, the land use designation for the Boulder Brush Boundary is Rural Lands 80 (RL-80) (County of San Diego 2011a). The Boulder Brush Boundary is zoned General Rural (S92) by the County of San Diego Zoning Map (County of San Diego 2017a). Minor and major impact utilities are allowed with approval of a use permit (County of San Diego 2017b). Major impact services and utilities (e.g., wind energy facilities) and minor impact utilities (e.g., electrical distribution substations) are defined under Sections 1350 and 1355 of the County Zoning Ordinance. The Boulder Brush Facilities require approval of a Major Use Permit from the County but would not require a change in land use designation or zoning. The County's General Plan and zoning do not cover land within the Reservation Boundary.

The Project would employ approximately 10 to 12 operational employees. This level of employment is well within the employment assumptions for the Boulder Brush Facilities alone; therefore, the Project would not be in exceedance of the employment assumed in the State Implementation Plan (SIP) and Regional Air Quality Strategy (RAQS). The Project would not result in regional growth that is not accounted for within the RAQS; thus, at a regional level, it is consistent with the underlying growth forecasts in the SIP and RAQS. The Project would be considered consistent with the RAQS and impacts would result in a **less-than-significant impact**.

Cumulative Impacts

With project design features (PDFs) incorporated to minimize emissions, maximum daily Project construction emissions would exceed the construction thresholds for NO_x. PDF-AQ-1 would limit VOC, CO, and NO_x emissions with implementation of Tier 4 Final off-road equipment. PDF-AQ-2 would limit fugitive dust from earthmoving activities. PDF-AQ-3 and PDF-AQ-4 would reduce emissions from blasting and rock-crushing activities. San Diego Air Pollution Control District Rule 67.0.1 would limit the VOC content of paint and other finishes used during the architectural

¹ CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects.

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coating phase through implementation of PDF-AQ-5. Mitigation measures M-AQ-1 through M-AQ-5, together with PDF-AQ-1 through PDF-AQ-5, would be implemented to reduce emissions of NO_x. With mitigation, the Project construction emissions would not exceed daily significance thresholds for any criteria air pollutant. Cumulative construction and operational emissions were found to be less than significant when considering the Project in combination with other existing and foreseeable future projects in the Project Vicinity. Following implementation of M-AQ-1 through M-AQ-5, cumulative construction emissions would be **less than significant**.

Maximum daily Project operational emissions would not exceed the operational thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. Thus, cumulative operational impacts would be **less than significant** and no mitigation is required.

Exposure of Sensitive Receptors

Carbon Monoxide Hotspots

For California Department of Transportation facilities, LOS D or better is considered acceptable in the San Diego region. With the addition of Project traffic, the study intersections are calculated to operate acceptably at level of service (LOS) D or better during AM and PM peak hours. Therefore, the Project would not exceed the County's screening threshold and would not result in a CO hotspot and would not have the potential to result in CO emissions that when totaled with the ambient concentrations would exceed a 1-hour concentration of 20 ppm or an 8-hour average of 9 ppm; therefore impacts would be **less than significant**.

Similarly, operation of the Project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. Traffic volumes and levels of service during operation would not exceed County thresholds; therefore, impacts would be **less than significant**.

Toxic Air Contaminants

During Project construction, impacts related to cancer risk and chronic hazard index from diesel particulate matter emissions, which is a toxic air contaminant (TAC), would be above the County's thresholds for cancer risk during construction activities for the Project; therefore, impacts would be potentially significant. With implementation of M-AQ-1 and PDF-AQ-1, impacts related to cancer risk and chronic hazard index would be below the County's thresholds during construction activities; therefore, impacts would be **less than significant**.

The Project does not propose any major operational sources of TAC emissions. Additionally, the Project would not be located next to a major source of TAC or high-volume roadway. As such, the

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Project would not result in substantial TAC emissions that may affect nearby receptors. Impacts would be **less than significant**.

Other Emissions

Potential odors produced during Project construction would be attributable to emissions of diesel fumes and other odors typically associated with construction activities (e.g., architectural coating and asphalt paving). These odors would disperse rapidly from the Project Site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be **less than significant**.

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

Greenhouse Gas Emissions Impact Analysis Summary

This GHG emissions analysis evaluates the potential for the Project to generate GHG emissions during construction and operation that may have a significant impact on the environment, and the potential for the Project to conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. Principal GHGs regulated under state and federal law include carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). GHG emissions are measured in metric tons (MT) of CO₂ equivalent (CO₂e), which accounts for the weighted global warming potential factors for CH₄ and N₂O. Estimated annual emissions generated by the Project from area, energy, mobile, solid waste, and water/wastewater emissions sources; sequestered carbon; and amortized Project construction and decommissioning emissions were calculated using CalEEMod Version 2016.3.2 (CAPCOA 2017), consistent with the San Diego Air Pollution Control District guidance.²

The significance criteria used to evaluate the Project's GHG emissions impacts are based on the recommendations provided in Appendix G of the CEQA Guidelines:

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

² CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development Projects.

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- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

Based on the 2017 Scoping Plan, this report uses a net zero threshold to determine whether the Project would generate GHG emissions that may have a significant impact on the environment. This report also examines the Project's consistency with Senate Bill (SB) X1 2, SB 350, SB 100, the County General Plan, the County's Strategic Energy Plan.

This report includes the Project's consistency with the County's Climate Action Plan (CAP).

The Boulder Brush Facilities would not require a change in land use designation or zoning within the Boulder Brush Boundary; and, therefore, would be consistent with the growth projections and land use assumptions made in the CAP and the County of San Diego's 2011 General Plan. When considering Project operations, the Project would produce more carbon-free energy than the emissions resulting from Project construction and operation. The Project would avoid approximately 1,756,500 MT CO_{2e} over its lifetime. The Project is also consistent with applicable plans, policies, and regulations adopted to reduce GHG emissions, including SB X1 2, SB 350, and SB 100, and County General Plan Strategy A-3. The Project also supports the County's Strategic Energy Plan. Moreover, for informational purposes, the Project's amortized construction emissions, loss of carbon sequestration, amortized decommissioning emissions, and operational emissions would be 929 MT CO_{2e} per year, or 27,878 MT CO_{2e} over a 30-year lifetime. Therefore, the Project would make a **less than significant** contribution to significant cumulative climate change impacts.

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Air Quality and Greenhouse Gas Emissions Analysis Technical Report for Campo Wind Project with Boulder Brush Facilities

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 implementation of the Campo Wind Project with Boulder Brush Facilities (Project). This report was prepared for the County of San Diego (County) under the California Environmental Quality Act (CEQA).

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, 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, 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 consists of both the Campo Wind Facilities, located on land within the Campo Band of Diegueño Mission Indians Reservation (Reservation) Boundary under the jurisdiction of the Bureau of Indian Affairs, and the Boulder Brush Facilities located on adjacent private lands within the Boulder Brush Boundary under the jurisdiction of the County in southeastern San Diego County, adjacent to the community of Live Oak Springs and in the vicinity of the communities of Campo and Jacumba (see Figure 1, Project Location). Within the Reservation Boundary, the Campo Corridor extends from the Manzanita Indian Reservation boundary to the north, to 0.25 miles north of the California/Mexico international border to the south. Interstate 8 and State Route 94 cross the Reservation east to west, and Church Road connects Interstate 8 to State Route 94 on the Reservation. Old Highway 80 provides access to Live Oak Springs from Interstate 8 and State Route 94.

1.3 Project Description

The Project consists of both the Campo Wind Facilities that would be located on land within the Reservation Boundary; and the Boulder Brush Facilities that would be located on adjacent private lands under County jurisdiction, within the Boulder Brush Boundary. Collectively, the Reservation Boundary and Boulder Brush Boundary comprise the Project Area. Throughout this document, the term “On-Reservation” refers to anything within the Reservation Boundary while the term “Off-Reservation” refers to anything outside of the Reservation Boundary. The term “Project Vicinity” refers to the Project Area plus surrounding areas.

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The Campo Wind Facilities, which would consist of 60 wind turbines and associated infrastructure, would be located within a corridor of approximately 2,200 acres of land (Campo Corridor) within the approximately 16,000-acre Reservation. The Boulder Brush Facilities, which would consist of the Off-Reservation gen-tie line and related facilities to connect energy generated by the Project to the existing San Diego Gas & Electric Company (SDG&E) Sunrise Powerlink, would be located within a corridor of approximately 320 acres of land (Boulder Brush Corridor) within the approximately 2,000-acre Boulder Brush Boundary. Collectively, the Campo Corridor and the Boulder Brush Corridor comprise the approximately 2,520-acre Project Site. Project disturbances associated with the construction of the Campo Wind Facilities within the Campo Corridor are expected to be approximately 800 acres, and Project disturbances associated with the construction of the Boulder Brush Facilities within the Boulder Brush Corridor are expected to be approximately 130 acres.

Land within the Boulder Brush Boundary is within the permitting jurisdiction of the County. The Boulder Brush Facilities would require approval of a Major Use Permit from the County.

The Project as a whole would consist of the development, financing, construction, operation, maintenance and, ultimately the decommissioning of a renewable wind energy generation Project, except for the switchyard and incoming/outgoing connection lines components that would be owned and operated by SDG&E. The Project would consist of 60 wind turbines, three permanent meteorological towers, six temporary meteorological towers, a temporary concrete batch plant for use during construction, a temporary equipment staging and parking area for use during construction, an operations and maintenance facility, water collection and septic systems, access roads, an electrical collection and communications system, an approximately 8.5-mile-long gen-tie line, a collector substation, a high-voltage substation, and a switchyard to interconnect the Project to the existing SDG&E Sunrise Powerlink (see Figure 2, Project Layout). The Project is anticipated to operate for the term of the Campo Lease and any renewal extension (approximately 30 years, at minimum), after which it would be decommissioned, except for the SDG&E-owned and operated switchyard and connection lines to Sunrise Powerlink, which would not be decommissioned.

Table 1 provides a summary of the components common to all build alternatives.

Table 1
Summary of Project Components

Project Component	Description
<i>Boulder Brush Facilities</i>	
Off-Reservation Gen-Tie Line	Approximately 3.5 miles of the approximately 8.5-mile-long, overhead 230 kV gen-tie line that would transmit the electricity from the Campo Wind Facilities to the Off-Reservation high-voltage substation and switchyard

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Table 1
Summary of Project Components

Project Component	Description
High-Voltage Substation	The high-voltage substation would receive the electric energy transmitted from the Campo Wind Facilities along the 230 kV gen-tie line and convert it up to the 500 kV voltage via a 230 kV to 500 kV transformer before transmitting it onward to the adjacent switchyard.
500kV Switchyard and Connection to the Existing SDG&E Sunrise Powerlink	The switchyard would interconnect the Project to the existing Sunrise Powerlink by a ring bus design with three 500 kV breakers, a control house, and a fenced-in graveled area. The connection to the Sunrise Powerlink would be made through incoming and outgoing connection lines to be constructed by SDG&E that would effectively route the power through the ring bus, and the Project's point of interconnection would be at an open position on that same bus.
Access Roads	Where feasible, new access roads used to access the Boulder Brush Facilities within the Boulder Brush Corridor would be located in areas of prior disturbance. An approximately 3.5-mile-long and up to 30-foot-wide new paved access road from the Boulder Brush Facilities site entrance to the high-voltage substation and switchyard would be constructed. Approximately 2.6 miles of this paved access road would run parallel and adjacent to a portion of the proposed Off-Reservation gen-tie line and would also serve as access to approximately 24 Off-Reservation gen-tie line pole structures. The approximately eight remaining Off-Reservation gen-tie line pole structures would be accessed by approximately 4 miles of improved decomposed granite roads, of which 2.8 miles would be located in areas of prior disturbance.
Defensible Space (Fuel Modification Zones)	A permanent, paved access road would be constructed to provide access to the high-voltage substation and switchyard. This new paved access road would be a minimum of 20 feet in width and maximum of 30 feet in width, with 20 feet of fuel modification on each side of the road. An approximately 20-foot-wide fuel modification zone would be maintained on either side of the on-site unpaved access roads.
<i>Campo Wind Facilities</i>	
Wind Turbines	The Project would include 60 wind turbines within the Campo Corridor on the Reservation. Turbines would be arranged in accordance with applicable industry siting recommendations for optimum energy production and minimal land disturbance.
Access Roads	Where feasible, the existing network of On-Reservation permanent roads would be used to access the Campo Wind Facilities during construction. In addition to the existing roads, additional roads would be constructed on the Reservation to provide access and circulation. Access road layout would involve approximately 15 miles of new On-Reservation roads. All of these roads are anticipated to be used for access to the Campo Wind Facilities over the life of the Project. Existing roads would be improved to accommodate construction equipment delivery and access. It is anticipated that approximately 15 miles of existing roads would need to be temporarily widened up to 40 feet during construction and reduced to 24 feet after construction. Likewise, the width of the new roads would be up to 40 feet during construction and reduced to 24 feet after construction. Access roads to the gen-tie line pole structures would be 16 feet.

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Table 1
Summary of Project Components

Project Component	Description
Electrical Collection and Communication System	The turbines would be connected to the collector substation through a 34.5 kV underground Electrical Collection and Communication System (ECCS) within the Reservation.
Collector Substation	The underground ECCS would be routed to the new collector substation centrally located within the Campo Corridor on the Reservation. The collector substation would contain the main transformer for the Project and circuit breakers for each of the underground ECCS circuits. Electricity at 34.5 kV from the wind turbines would flow into the circuit breakers, be transformed by the transformer to 230 kV, and would then be conducted for delivery via the gen-tie line.
O&M Facility	An O&M facility would be located within one of the two temporary central staging areas within the Campo Corridor on the Reservation. The facility would include a 1.5-acre parking and equipment storage area and a pre-engineered structure. The O&M facility would contain monitoring and control equipment. Amenities at the O&M facility would include a main building with offices, spare parts storage, restrooms, a shop area, outdoor parking facilities, a turnaround area for larger vehicles, outdoor lighting, and gated access with partial or full perimeter fencing.
Meteorological Towers	Up to six, temporary meteorological towers and up to three permanent meteorological towers would be constructed within the Campo Corridor on the Reservation to monitor and record weather conditions and to perform power performance testing of the wind turbines.
Water Collection and Septic Systems	The O&M facility would have an operational water demand of approximately 210 gallons per day for the sanitary functions associated with personnel.
Temporary Concrete Batch Plant for Use during Construction	A temporary concrete batch plant would be established within the Campo Corridor on the Reservation to mix the necessary concrete for foundations of the turbines, meteorological towers, substations, transmission poles, and the O&M facility.
Temporary Staging and Parking Areas for Use during Construction	Two central temporary staging areas within the Campo Corridor on the Reservation of approximately 20 acres total would be established for construction-management facilities, materials and equipment storage, and worker parking.
On-Reservation Gen-Tie Line	The Project includes an approximately 8.5-mile 230 kV gen-tie line, originating at the collector substation and terminating at the high-voltage substation. An approximately 5-mile long segment of the gen-tie line, including approximately 42 support poles, fiber-optic ground wire attachment for lightning protection and internal communications would be located within the Campo Corridor on the Reservation, as part of the Campo Wind Facilities.

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1.4 Project Design Features

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

Construction

PDF-AQ-1 Prior to the Campo Band of Diegueño Mission Indians' (Tribe) approval of any construction-related permits, the lessee or its designee shall place the following requirements on all plans, which 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 applicant documents that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment. Before an exemption may be considered by the Tribe, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego region were contacted and that those owners/operators confirmed Tier 4 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. A non-toxic dust control agent shall be used on the grading areas or watering shall be applied at least three times daily.
- b. Grading areas shall be stabilized as quickly as possible.

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- c. 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.
- d. Wheel washers shall be installed adjacent to the apron for tire inspection and washing prior to vehicle entry on public roads.
- e. 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.
- f. Sufficient perimeter erosion control shall be provided to prevent washout of silty material onto public roads.
- g. Unpaved construction site egress points shall be graveled to prevent track-out.
- h. Construction access points shall be wet-washed at the end of the workday if any vehicle travel on unpaved surfaces has occurred.
- i. Transported material in haul trucks shall be watered or treated.
- j. All soil disturbance and travel on unpaved surfaces shall be suspended if winds exceed 25 miles per hour.
- k. On-site stockpiles of excavated material shall be covered.
- l. A 15 mile per hour speed limit on unpaved surfaces shall be enforced.
- m. 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 implemented for the Boulder Brush Facilities to reduce fugitive dust emissions (PM₁₀ and PM_{2.5}) 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

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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.

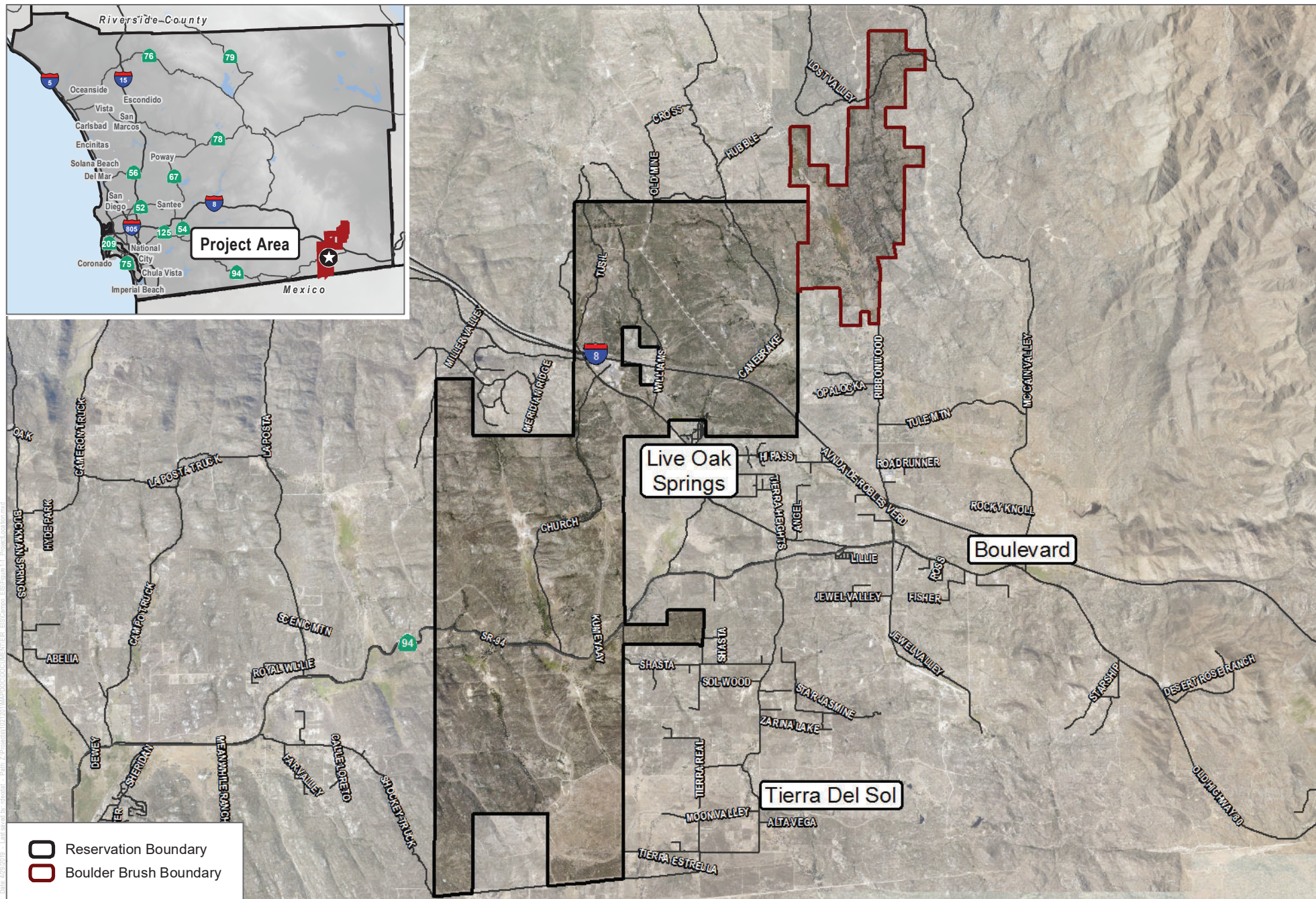
PDF-AQ-4 To reduce emissions of NO_x, CO, SO_x, PM₁₀, and PM_{2.5}, all Campo Wind Facilities phases involving blasting shall conform to the following requirements:

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

PDF-AQ-5 Construction Architectural Coating Limits. The Campo Wind Facilities shall comply with the following volatile organic compound (VOC) content limits for architectural coatings during construction for residential and non-residential and uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.

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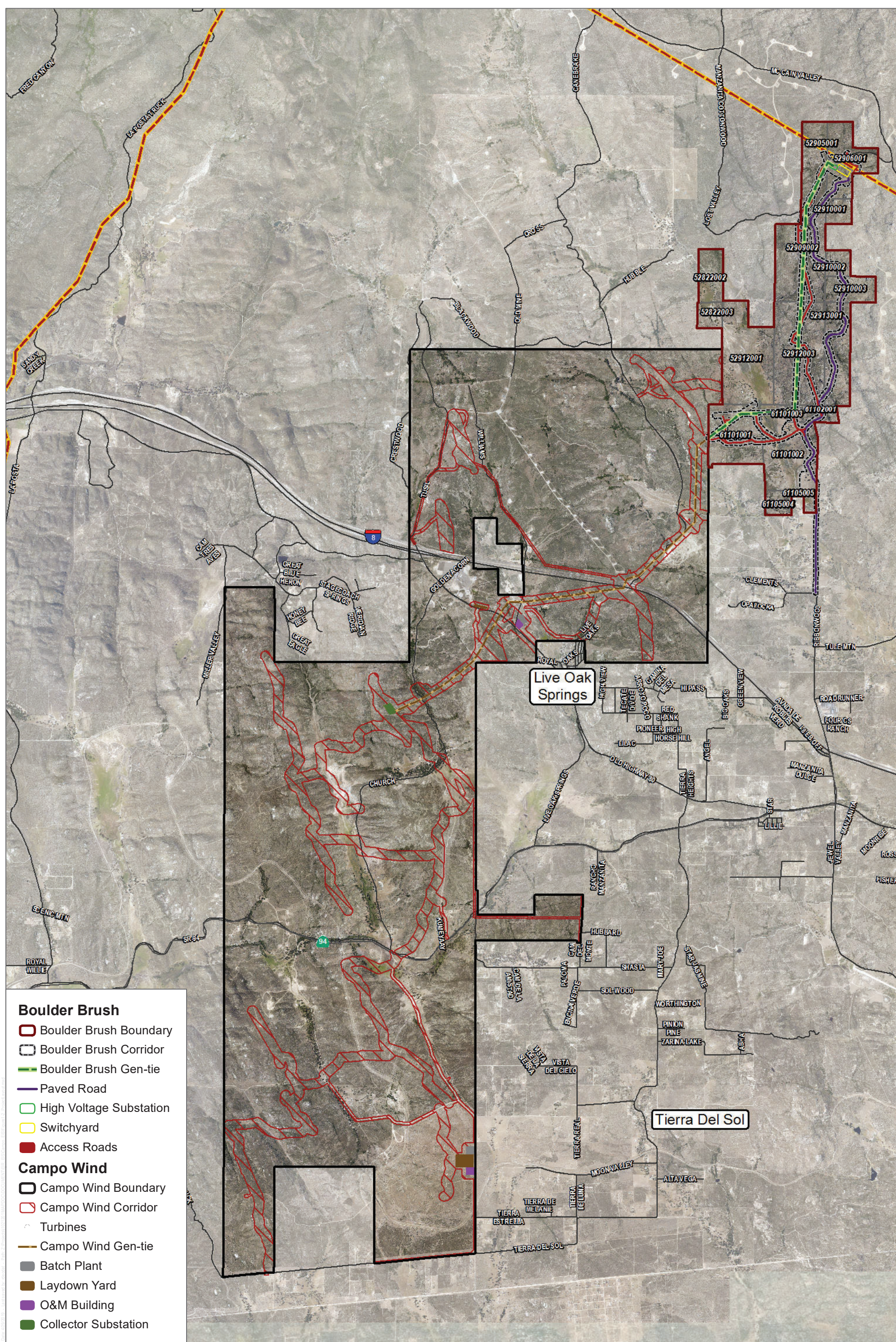
FIGURE 1

Project Location

Campo Wind Project with Boulder Brush Facilities

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2 AIR QUALITY

2.1 Existing Conditions

The approximately 2,520-acre Project Site is located in southeastern San Diego County, California. The Project consists of both the Campo Wind Facilities that would be located on Reservation land within the Reservation Boundary under the jurisdiction of the Bureau of Indian Affairs, and the Boulder Brush Facilities that would be located on adjacent private lands under the land use and permitting jurisdiction of the County within the Boulder Brush Boundary.

The Campo Wind Facilities would be located within the approximately 2,200 acres Campo Corridor inside the Reservation Boundary. The Bureau of Indian Affairs is the Lead Agency for the Project under the National Environmental Policy Act (NEPA) and has prepared an Environmental Impact Statement (EIS) for the Project (BIA 2019).

The Boulder Brush Facilities would be located within the approximately 320-acre Boulder Brush Corridor inside the Boulder Brush Boundary. Collectively, the Campo Corridor and the Boulder Brush Corridor comprise the approximately 2,520-acre Project Site.

The Project is located within the San Diego Air Basin (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.³

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

³ 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 2011), and the CARB Recommended Area Designation for the 2010 Federal Sulfur Dioxide Standard (CARB 2011).

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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 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 San Diego County. This often produces high O₃ concentrations, as measured at air pollutant monitoring stations within San Diego 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.

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Site-Specific Meteorological Conditions

The local climate in western San Diego 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.

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.⁴ In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

⁴ The descriptions of each of the criteria air pollutants and associated health effects are based on the EPA’s Criteria Air Pollutants (EPA 2016a) and the CARB Glossary of Air Pollutant Terms (CARB 2016a).

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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).⁵ 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 (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 (NO), 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

⁵ 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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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. 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}

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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).

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.

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2.1.2.2 Non-Criteria Air Pollutants

Toxic Air Contaminants. A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In the state of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics “Hot Spots” Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources, such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources, such as automobiles; and area sources, such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Valley Fever. Coccidioidomycosis, more commonly known as “Valley Fever,” is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading, or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils.

Valley Fever is not considered highly endemic to San Diego. Per the San Diego County Health and Human Services Agency, the 10-year average (2008–2017) for Coccidioidomycosis cases in the County of San Diego is 4.5 cases per 100,000 people per year. The Project is wholly contained within the 91917 zip code. For the 91917 zip code, there were only two cases of Coccidioidomycosis between 2008 and 2017, which is too few cases for an incidence rate to be calculated (Nelson 2018). Statewide incidences in 2016 were 13.7 per 100,000 people (CDPH 2017).

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Even if present at a site, earth-moving activities may not result in increased incidence of Valley Fever. Propagation of *Coccidioides immitis* is dependent on climatic conditions, with the potential for growth and surface exposure highest following early seasonal rains and long dry spells. *Coccidioides immitis* spores can be released when filaments are disturbed by earth-moving activities, although receptors must be exposed to and inhale the spores to be at increased risk of developing Valley Fever. Moreover, exposure to *Coccidioides immitis* does not guarantee that an individual will become ill—approximately 60% of people exposed to the fungal spores are asymptomatic and show no signs of an infection (USGS 2000).

Diesel Particulate Matter. Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of PM_{2.5} (CARB 2016b). DPM is typically composed of carbon particles (“soot,” also called black carbon) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM) (17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM_{2.5}, DPM also contributes to the same non-cancer health effects as PM_{2.5} exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to non-cancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor, and

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recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

2.2 Regulatory Setting

2.2.1 Federal Regulations

Federal regulations are applicable to the Boulder Brush Facilities and to the Campo Wind Facilities.

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.

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	—

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Table 2
National Ambient Air Quality Standards

Pollutant	Averaging Time	National Standards ^a	
		Primary ^{b,c}	Secondary ^b
	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.
- ^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.

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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 equaling or exceeding any of the specified annual rates, referred to as de minimis thresholds. The Project 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.

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. In the revised 2011 regulations, the EPA has specifically identified tribal agencies as stakeholders in the conformity process to ensure that in a nonattainment or

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maintenance area, federal actions conform to the air quality plans established in the applicable SIP or Tribal Implementation Plan. In addition, the revised regulations also clarify that federal actions must conform to any applicable Tribal Implementation Plan. The Reservation is in attainment for all criteria pollutants. The Tribe and the Reservation are not subject to the SIP. The Tribe and the Reservation are subject to the Tribal Implementation Plan.

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 Tribal Implementation Plan.

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 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 State Regulations

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.

2.2.2.1 Criteria Air Pollutants

The federal CAA delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the CAA, and regulating emissions from motor vehicles and consumer products.

CARB established the California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. The CAAQS describe adverse conditions; that is, pollution levels must be below these standards before a basin can attain the standard. Air quality is considered “in attainment” if pollutant levels are continuously below the CAAQS and violate the

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standards no more than once each year. The CAAQS for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, PM₁₀, PM_{2.5}, and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. The CAAQS is presented in Table 4.

Table 4
California Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a
		Concentration ^b
O ₃	1 hour	0.09 ppm (180 µg/m ³)
	8 hours	0.070 ppm (137 µg/m ³)
NO ₂ ^c	1 hour	0.18 ppm (339 µg/m ³)
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)
CO	1 hour	20 ppm (23 mg/m ³)
	8 hours	9.0 ppm (10 mg/m ³)
SO ₂ ^h	1 hour	0.25 ppm (655 µg/m ³)
	24 hours	0.04 ppm (105 µg/m ³)
	Annual	—
PM ₁₀	24 hours	50 µg/m ³
	Annual Arithmetic Mean	20 µg/m ³
PM _{2.5}	24 hours	—
	Annual Arithmetic Mean	12 µg/m ³
Lead ⁱ	30-day Average	1.5 µg/m ³
	Calendar Quarter	—
	Rolling 3-Month Average	—
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m ³)
Vinyl chloride ^d	24 hours	0.01 ppm (26 µg/m ³)
Sulfates	24- hours	25 µg/m ³
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%

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 California standards for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, suspended particulate matter (PM₁₀, PM_{2.5}), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

^b Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

^c 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.

^d 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.

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2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) hazardous air pollutants. In 1987, the Legislature enacted the Air Toxics “Hot Spots” Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. “High-priority” facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

This section 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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2.2.3 Local Regulations

Local regulations are applicable to the Boulder Brush Facilities, which would be located on private lands within the County. Local regulations are not applicable to the Reservation or Campo Wind Facilities.

2.2.3.1 San Diego Air Pollution Control District

Although CARB is responsible for the regulation of mobile emissions sources within the state, local air quality management districts and air pollution control districts are responsible for enforcing standards and regulating stationary sources. The Boulder Brush Boundary is located within the SDAB and is subject to the guidelines and regulations of the San Diego Air Pollution Control District (SDAPCD)⁶.

In the County, O₃ and particulate matter are the pollutants of main concern, since exceedances of state ambient air quality standards for those pollutants are experienced in the County in most years. For this reason, SDAB has been designated as a nonattainment area for the state PM₁₀, PM_{2.5}, and O₃ standards. SDAB is also a federal O₃ attainment (maintenance) area for 1997 8-hour O₃ standard, an O₃ nonattainment area for the 2008 8-hour O₃ standard, and a CO maintenance area (western and central part of SDAB only, including the Boulder Brush Boundary).

Federal Attainment Plans

In December 2016, SDAPCD adopted an update to the Eight-Hour Ozone Attainment Plan for San Diego County (2008 O₃ NAAQS). The 2016 Eight-Hour Ozone Attainment Plan for San Diego County indicates that local controls and state programs would allow the region to reach attainment of the federal 8-hour O₃ standard (1997 O₃ NAAQS) by 2018 (SDAPCD 2016a). In this plan, SDAPCD relies on the Regional Air Quality Strategy (RAQS) to demonstrate how the region will comply with the federal O₃ standard. The RAQS details how the region will manage and reduce O₃ precursors (NO_x and VOCs) by identifying measures and regulations intended to reduce these pollutants. The control measures identified in the RAQS generally focus on stationary sources; however, the emissions inventories and projections in the RAQS address all potential sources, including those under the authority of CARB and the EPA. Incentive programs for reduction of emissions from heavy-duty diesel vehicles, off-road equipment, and school buses are also established in the RAQS.

Currently, the County is designated as moderate nonattainment for the 2008 NAAQS and maintenance for the 1997 NAAQS. As documented in the 2016 8-Hour Ozone Attainment Plan

⁶ There are no equivalent requirements on the Campo Facilities.

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for San Diego County, the County has a likely chance of obtaining attainment due to the transition to low emissions cars, stricter new source review rules, and continuing the requirement of general conformity for military growth and the San Diego International Airport. The County will also continue emissions control measures, including ongoing implementation of existing regulations in ozone precursor reduction to stationary and area-wide sources, subsequent inspections of facilities and sources, and adoption of laws requiring Best Available Retrofit Control Technology for control of emissions (SDAPCD 2016a).

State Attainment Plans

The SDAPCD and the San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The RAQS for the SDAB was initially adopted in 1991 and is updated on a triennial basis, most recently in 2016 (SDAPCD 2016b). The RAQS outlines SDAPCD's plans and control measures designed to attain the state air quality standards for O₃. The RAQS relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of development of their general plans (SANDAG 2017a, 2017b).

In December 2016, the SDAPCD adopted the revised RAQS for the County. Since 2007, the San Diego region reduced daily VOC emissions and NO_x emissions by 3.9% and 7.0% respectively; the SDAPCD expects to continue reductions through 2035 (SDAPCD 2016b). These reductions were achieved through implementation of six VOC control measures and three NO_x control measures adopted in the SDAPCD's 2009 RAQS (SDAPCD 2009a); in addition, the SDAPCD is considering additional measures, including three VOC measures and four control measures to reduce 0.3 daily tons of VOC and 1.2 daily tons of NO_x, provided the control measures are found to be feasible region-wide. In addition, SDAPCD has implemented nine incentive-based programs, has worked with SANDAG to implement regional transportation control measures, and has reaffirmed the state emissions offset repeal.

In regards to particulate matter emissions reduction efforts, in December 2005, the SDAPCD prepared a report titled "Measures to Reduce Particulate Matter in San Diego County" to address implementation of Senate Bill (SB) 656 in San Diego County (SB 656 required additional controls to reduce ambient concentrations of PM₁₀ and PM_{2.5}) (SDAPCD 2005). In the report, SDAPCD evaluated implementation of source-control measures that would reduce particulate matter

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emissions associated with residential wood combustion; various construction activities including earthmoving, demolition, and grading; bulk material storage and handling; carryout and trackout removal and cleanup methods; inactive disturbed land; disturbed open areas; unpaved parking lots/staging areas; unpaved roads; and windblown dust (SDAPCD 2005).

SDAPCD Rules and Regulations

- **SDAPCD Regulation II: Permits; Rule 20.2: New Source Review Non-Major Stationary Sources.** Requires new or modified stationary source units (that are not major stationary sources) with the potential to emit 10 pounds per day or more of VOC, NO_x, sulfur oxides (SO_x), or PM₁₀ to be equipped with best available control technology (BACT). For those units with a potential to emit above Air Quality Impact Assessments Trigger Levels, the units must demonstrate that such emissions would not violate or interfere with the attainment of any national air quality standard (SDAPCD 2016b).
- **SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions.** Prohibits discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than 3 minutes in any period of 60 consecutive minutes that is darker in shade than that designated as Number 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or of such opacity as to obscure an observer's view to a degree greater than does smoke of a shade designated as Number 1 on the Ringelmann Chart (SDAPCD 1997).
- **SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance.** Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property (SDAPCD 1969).
- **SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust.** Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site (SDAPCD 2009b).
- **SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings.** Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SDAPCD 2015a). Implementation of M-AQ-5 would limit the VOC content for interior and exterior coatings during construction of the Boulder Brush Facilities, and is more restrictive than the VOC content limits identified in SDAPCD Rule 67.0.1. Architectural coatings used in the

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reapplication of coatings during operation of the Boulder Brush Facilities would be subject to the VOC content limits identified in SDAPCD Rule 67.0.1, which applies to coatings manufactured, sold, or distributed within San Diego County, but reductions were not quantified. Implementation of PDF-5 would limit the VOC content for interior and exterior coatings during construction of the Campo Wind Facilities, and is more restrictive than the VOC content limits identified in SDAPCD Rule 67.0.1.

- **SDAPCD Regulation XII: Toxic Air Contaminates; Rule 1200: Toxic Air Contaminants - New Source Review.** Requires new or modified stationary source units with the potential to emit toxic air contaminants (TACs) above rule threshold levels to either demonstrate that they will not increase the maximum incremental cancer risk above 1 in 1 million at every receptor location, or demonstrate that toxics best available control technology (T-BACT) will be employed if maximum incremental cancer risk is equal to or less than 10 in 1 million, or demonstrate compliance with SDAPCD's protocol for those sources with an increase in maximum incremental cancer risk at any receptor location of greater than 10 in 1 million but less than 100 in 1 million (SDAPCD 2017b).

2.2.3.2 *San Diego Association of Governments*

SANDAG is the regional planning agency for the County and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SANDAG serves as the federally designated metropolitan planning organization for the County. With respect to air quality planning and other regional issues, SANDAG prepared its San Diego Forward: The Regional Plan for the San Diego region (Regional Plan; SANDAG 2015). The Regional Plan combines the big-picture vision for how the region will grow over the next 35 years with an implementation program to help make that vision a reality. The Regional Plan, including its Sustainable Communities Strategy, is built on an integrated set of public policies, strategies, and investments to maintain, manage, and improve the transportation system so that it meets the diverse needs of the San Diego region through 2050 (SANDAG 2015).

The Regional Plan sets the policy context for how SANDAG participates in and responds to SDAPCD's air quality plans, and builds off SDAPCD's air quality plan processes that are designed to meet health-based criteria pollutant standards (SANDAG 2015). The Regional Plan complements air quality plans by providing guidance and incentives for public agencies to consider best practices that support technology-based control measures in air quality plans. The Regional Plan also emphasizes the need for better coordination of land use and transportation planning, which heavily influences the emissions inventory from the transportation sectors of the economy. This also minimizes land use conflicts, such as residential development near freeways, industrial areas, or other sources of air pollution (SANDAG 2015).

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On September 23, 2016, SANDAG's Board of Directors adopted the final 2016 Regional Transportation Improvement Program (RTIP). The 2016 RTIP is a multi-billion dollar, multi-year program of proposed major transportation projects in the San Diego region. Transportation projects funded with federal, state, and TransNet (the San Diego transportation sales tax program) must be included in an approved RTIP. The programming of locally funded projects also may be programmed at the discretion of SANDAG. The 2016 RTIP covers 5 fiscal years and incrementally implements the Regional Plan (SANDAG 2016).

2.2.3.3 San Diego County

County Code Section 87.428, Dust Control Measures. As part of the San Diego County Grading, Clearing, and Watercourses Ordinance, County Code Section 87.428 requires all clearing and grading to be carried out with dust control measures adequate to prevent creation of a nuisance to people or public or private property. Clearing, grading, or improvement plans must require that measures be undertaken to achieve this result, including watering, application of surfactants,⁷ shrouding, control of vehicle speeds, paving access areas, or implementing other operational or technological measures to reduce dispersion of dust. These Project design measures are to be incorporated into all earth-disturbing activities to minimize the amount of particulate matter emissions from construction (County of San Diego 2004).

County Zoning Ordinance Section 6318. Section 6318 of the San Diego County Zoning Ordinance requires that all commercial and industrial uses be operated so as not to emit matter causing unpleasant odors that are perceptible by the average person at or beyond any lot line of the lot containing said uses. Section 6318 goes on to further provide specific dilution standards that must be met "at or beyond any lot line of the lot containing the uses" (County of San Diego 1979).

2.3 Regional and Local Air Quality Conditions

2.3.1 San Diego Air Basin Attainment Designation

Pursuant to the 1990 CAA amendments and the California Clean Air Act, the EPA and CARB classifies air basins (or portions thereof) as "attainment" or "nonattainment" for each criteria air pollutant, based on whether the NAAQS or CAAQS 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 unacceptable effects on human health or the public welfare. If there is not enough data available to determine whether the standard is

⁷ Surfactants are compounds that lower surface tension between liquids or between a solid and a liquid, such as a detergent.

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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 be 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 5.

Table 5
San Diego Air Basin Attainment Classification

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

Sources: EPA 2016b (national); CARB 2016d (California).

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.

* 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.

The SDAB is designated as a nonattainment area for the 2008 8-hour O₃ NAAQS and maintenance area for CO. The portion of the SDAB where the Project Site is located is designated as attainment or unclassifiable for all other criteria pollutants under the NAAQS. The SDAB is designated as a nonattainment area for O₃, PM₁₀, and PM_{2.5} CAAQS. The portion of the SDAB where the Project Site is located is designated as attainment or unclassified for all other criteria pollutants under the CAAQS.

2.3.2 Air Quality Monitoring Data

The SDAPCD operates 11 ambient air monitoring stations throughout San Diego 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, similar geographic and climactic

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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. 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, the most recent data available at the time of preparing this analysis, are presented in Table 6, Local Ambient Air Quality Data. The number of days exceeding the NAAQS and CAAQS is also shown in Table 6.

Table 6
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
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

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Table 6
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
	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
<i>Coarse Particulate Matter (PM₁₀)^a</i>										
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	—	—	—	—	—	—
<i>Fine Particulate Matter (PM_{2.5})^a</i>										
El Cajon-Lexington Elementary	µg/m ³	Maximum 24-hour concentration	Federal	35	—	23.9	31.8	—	0	0
			State	12	—	9.9	9.6	—	0	0
	µg/m ³	Annual concentration	Federal	12.0	—	9.9	9.6	—	0	0

Sources: CARB 2018; 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.

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

California has developed guidelines to address the significance of air quality impacts that are contained in Appendix G of the CEQA Guidelines. Based on those guidelines, a project would have a significant environmental impact if it would:

1. Conflict with or obstruct the implementation of the applicable air quality plan;

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2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or state ambient air quality standard;
3. Expose sensitive receptors to substantial pollutant concentrations; or
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The following significance thresholds for air quality are based on criteria provided in the County's Guidelines for Determining Significance and Report Format and Content Requirements – Air Quality (County of San Diego 2007). The County's guidelines were adapted from Appendix G of the CEQA Guidelines listed above.

A significant impact would result if any of the following would occur:

- The project would conflict with or obstruct the implementation of the SDAPCD's RAQS and/or applicable portions of the State Implementation Plan (SIP).
- The project would result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is in nonattainment under an applicable federal or state Ambient Air Quality Standard.
 - The following guidelines for determining significance must be used for determining whether the net increase during the construction phase is cumulatively considerable:
 - A project that has a significant direct impact on air quality with regard to construction-related emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase;
 - In the event direct impacts from a proposed project are less than significant, a project may still have a cumulatively considerable impact on air quality if the construction-related emissions of concern from the proposed project, in combination with the emissions of concern from other proposed projects or reasonably foreseeable future projects within a proximity relevant to the pollutants of concern, are in excess of the guidelines, including the SDAPCD's screening-level thresholds.
 - The following guidelines for determining significance must be used for determining whether the net increase during the operational phase is cumulatively considerable:
 - A project that does not conform to SDPACD's RAQS and/or has a significant direct impact on air quality with regard to operational-related emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase;

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- Projects that cause road intersections to operate at or below level of service (LOS) E (analysis required only when the addition of peak-hour trips from the proposed project and the surrounding projects exceeds 2,000) and create a CO hotspot create a cumulatively considerable net increase of CO.
- In the event direct impacts from a proposed project are less than significant, a project may still have a cumulatively considerable impact on air quality if the operational-related emissions of concern from the proposed project, in combination with the emissions of concern from other proposed projects or reasonably foreseeable future projects within a proximity relevant to the pollutants of concern, are in excess of the guidelines, including SDAPCD's screening-level thresholds.
- The project would expose sensitive receptors to substantial pollutant concentrations.
- The project places sensitive receptors near CO hotspots or creates CO hotspots near sensitive receptors;
- Project implementation would result in exposure to TACs resulting in a:
 - Maximum incremental cancer risk equal to or greater than 1 in one million without application of Toxics-Best Available Control Technology (T-BACT), or
 - Maximum incremental cancer risk equal to or greater than 10 in one million with application of T-BACT, or
 - Cancer burden equal to or greater than 1.0, or
 - Total acute non-cancer health hazard index equal to or greater than 1.0, or
 - Total chronic non-cancer health hazard index equal to or greater than 1.0.
- The project, which is not an agricultural, commercial, or an industrial activity subject to SDAPCD standards, as a result of implementation, would either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which would affect a considerable number of persons or the public.

As part of its air quality permitting process, the SDAPCD has established thresholds in Rule 20.2 requiring the preparation of an Air Quality Impact Assessment for permitted stationary sources. The SDAPCD sets forth quantitative emissions thresholds below which a stationary source would not have a significant impact on ambient air quality. Project air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 7 are exceeded.

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Table 7
San Diego Air Pollution Control District Air Quality Significance Thresholds

Construction Emissions			
Pollutant	Total Emissions (Pounds per Day)		
Respirable Particulate Matter (PM ₁₀)	100		
Fine Particulate Matter (PM _{2.5})	55		
Oxides of Nitrogen (NO _x)	250		
Oxides of Sulfur (SO _x)	250		
Carbon Monoxide (CO)	550		
Volatile Organic Compounds (VOC)	75 ^a		
Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
Respirable Particulate Matter (PM ₁₀)	—	100	15
Fine Particulate Matter (PM _{2.5})	—	55	10
Oxides of Nitrogen (NO _x)	25	250	40
Sulfur Oxides (SO _x)	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	—	3.2	0.6
Volatile Organic Compounds (VOCs)	—	75 ^a	13.7

Sources: SDAPCD Rules 1501 (SDAPCD 1995) and 20.2(d)(2) (SDAPCD 2016c).

^a VOC threshold based on the threshold of significance for VOC from the South Coast Air Quality Management District for the Coachella Valley as stated in the San Diego County Guidelines for Determining Significance.

The thresholds listed in Table 7 represent screening-level thresholds that can be used to evaluate whether Project emissions could cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. The emissions-based thresholds for O₃ precursors are intended to serve as a surrogate for an “O₃ significance threshold” (i.e., the potential for adverse O₃ impacts to occur). This approach is used because O₃ is not emitted directly and the effects of an individual project’s emissions of O₃ precursors (VOC and NO_x) on O₃ levels in ambient air cannot be determined through air quality models or other quantitative methods. For nonattainment pollutants, if emissions exceed the thresholds shown in Table 7, the Project could have the potential to result in a cumulatively considerable net increase in these pollutants, and, thus, could have a significant impact on ambient air quality.

With respect to odors, SDAPCD Rule 51 (Public Nuisance) prohibits emission of any material that causes nuisance to a considerable number of people or endangers the comfort, health, or safety of any person. A project that proposes a use that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

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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 Project applicant and CalEEMod default values when Project specifics were not known.

For purposes of estimating Project emissions, and based on information provided by both the Terra-Gen Development Company LLC (Developer) and Boulder Brush LLC (Boulder Brush Developer), it is assumed that construction of the Project would commence in late 2019⁸ and would last approximately 14 months, with 13 months for construction and 1 month for startup and commissioning of the new turbines, 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, temporary staging/laydown areas). No cut material would be exported from the Project Site. Approximately 930 acres would be disturbed, which includes approximately 800 acres within the Campo Corridor and approximately 130 acres within the Boulder Brush Corridor.

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

The Project would require the import of water for dust control, included in PDF-AQ-2. An estimated maximum demand of approximately 173 acre-feet of water would be required over the 14 months of construction (approximately 123 acre-feet for Campo Wind Facilities and approximately 50 acre-feet for Boulder Brush Facilities). Nonpotable water would be imported from commercial sellers such as the Jacumba Community Services District and Padre Dam Municipal Water District. Water would be transported to the site using 4,000-gallon water trucks, which are categorized as heavy-duty haul trucks in CalEEMod. Approximately 250,000 gallons per day would be required during peak construction demand, which would occur over the first 3 months of construction. For the remainder of Project construction, water demand would be reduced

⁸ The analysis assumes a construction start date of late 2019. Assuming an earlier 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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to approximately 120,000 to 150,000 gallons per day. This water would be used for concrete mixing, dust suppression, and other tasks. Construction water would be imported from JCSD located approximately 11 miles southeast of the Project Site, or PDMWD located approximately 47 miles northwest from the Project Site. Water would be transported to the site using 4,000-gallon water trucks, which are categorized as heavy-duty haul trucks in CalEEMod. An additional water source for the construction of the Campo Wind Facilities may include On-Reservation production wells on the southern end of the Reservation.

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 provided by the Developer and from similar projects in the general vicinity of the Project, the worker mix was assumed to include 55% coming from the west (San Diego County area) and 45% coming from temporary house site located at the Sacred Rock RV Park. The haul truck mix was assumed to include 45% from the east (Imperial County area) and 55% from the west (San Diego County area) (Terra-Gen 2019). The vendor trucks were assumed to come from a distance equivalent to the 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; and 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 8. 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. PDF-AQ-1 would require the use of Tier 4 Final off-road construction equipment with engines rated at 75 horsepower or greater, thus minimizing emissions.

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Table 8
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
Campo Wind Facilities – Clearing and grading	72	108	734	Graders	3	8
				Rubber-tired dozers	8	8
				Scrapers	3	8
				Crushing/processing equipment	1	8
Campo Wind Facilities – Construction of access roads	120	0	22	Scrapers	3	8
				Rubber-tired loaders	7	8
Campo Wind Facilities – Wind turbine foundation construction	168	20	3,046	Air compressors	3	8
				Generator sets	3	8
				Pumps	1	8
Campo Wind Facilities – Wind turbine erection	144	0	720	Cranes	19	7
				Air compressors	2	8
				Generator sets	3	8
				Pumps	2	8
				Welders	7	8
Campo Wind Facilities – Construction of underground electrical collection and communication system	240	12	368	Rubber-tired dozers	2	7
				Tractors/loaders/backhoes	4	8
				Trenchers	3	8
Campo Wind Facilities – Construction of collector substation	48	4	138	Air compressors	1	8
				Cranes	1	7
				Generator sets	2	8
				Pumps	1	8
				Tractors/loaders/backhoes	3	7
				Welders	2	8
Campo Wind Facilities – Gen-tie line foundation construction and tower erection	96	10	30	Forklifts	1	8
				Welder	1	7
				Air compressor	1	7
				Generator sets	2	6
				Pump	1	7
Campo Wind Facilities – Stringing and pulling	72	10	20	Welder	1	7
				Air compressor	1	7

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Table 8
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
Campo Wind Facilities – Operations and maintenance building	120	4	20	Cranes	1	7
				Generator sets	1	8
				Tractors/loaders/backhoes	1	7
				Welders	1	8
Campo Wind Facilities – Meteorological (MET) tower	24	4	4	Cranes	1	7
				Generator sets	2	8
				Tractors/loaders/backhoes	1	7
				Welders	1	8
Boulder Brush Facilities – High-Voltage substation and switchyard	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 unpaved access roads	48	10	32	Pavers	1	8
				Rollers	4	8
				Scrapers	2	8
				Paving equipment	4	8
				Pump	1	7
Boulder Brush Facilities – Gen-Tie line foundation construction and tower erection	96	10	30	Forklifts	1	8
				Welder	1	7
				Air compressor	1	7
				Generator sets	2	6
				Pump	1	7
Boulder Brush Facilities – Gen-Tie line stringing and pulling)	72	10	20	Welder	1	7
				Air compressor	1	7
Boulder Brush Facilities – Paving of switchyard access road	66	0	0	Pavers	1	8
				Paving equipment	4	8
				Rollers	8	8

Note: See Appendix A for details.

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Temporary Concrete Batch Plant

A temporary concrete batch plant located within the Campo Corridor, on the Reservation would mix concrete for foundations of the turbines, meteorological towers, substations, transmission poles, and the O&M facility. The temporary concrete batch plant would occupy an area of approximately 3 acres. The temporary concrete 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 concrete batch plant would operate for up to 14 months of the construction of the Project with a throughput of approximately 37,700 cubic yards (37,000 cubic yards of concrete for the construction of the Campo Wind Facilities, and 700 cubic yards of concrete for the construction of the Boulder Brush Facilities).

Temporary Staging/Laydown Areas

Two temporary staging areas on Reservation, of approximately 20 acres total, would be established to house construction management facilities, materials and equipment storage, and worker parking. Upon completion of construction, the O&M facility would be located within one of the temporary staging area footprints. In addition to the temporary central staging areas, each turbine would require a temporary staging area at the turbine location for the assembly of the turbine components and to erect each turbine. Each temporary staging 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.

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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. As specified by PDF-AQ-4, 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 (Terra-Gen 2019). All blasting activity would comply with Section 96.1.5601.2 of the County of San Diego 2017 Consolidated Fire Code. PDF-AQ-2 and PDF-AQ-3 would require fugitive dust control measures to reduce emissions associated with blasting and rock-crushing activities. The blasting information provided by both the Developer and Boulder Brush Developer and additional calculation assumptions are provided in Table 9.

Table 9
Blasting Characteristics

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

Source: Terra-Gen 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 and Boulder Brush Developer and additional calculation assumptions are provided in Table 10.

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Table 10
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: Terra-Gen 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 PM_{2.5} emissions from the diesel-engine generator were estimated using the CalEEMod. Rock-crushing emissions calculations are provided in Appendix A.

Decommissioning

The Project is anticipated to operate for the term of the Campo Lease and any renewal extension (approximately 30 years, at minimum), after which it would be decommissioned, except for the SDG&E-owned and operated switchyard and connection lines to Sunrise Powerlink, which would not be decommissioned. All decommissioning would occur within the Project Site and disturbance limits, and would involve similar, although reduced, construction equipment and activities.

For purposes of estimating Project decommissioning emissions, and based on information provided by the applicant, it is assumed that decommissioning of the Project would commence in January 2052⁹ and would last approximately 7 months. However, because CalEEMod relies on the CARB EMFAC 2014 it is only able to estimate mobile source emissions through 2050. Therefore,

⁹ The analysis assumes a construction start date of January 2052, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant 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 emissions for decommissioning were estimated in year 2050. This is conservative as the emissions are likely less in 2052 as vehicles and construction equipment become more efficient. The analysis contained herein is based on the following subset area schedule assumptions (duration of phases is approximate. Detailed construction equipment modeling assumptions are provided in Appendix A.

Emissions from the decommissioning 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 applicant, CalEEMod defaults, and best engineering judgment.

General decommissioning equipment modeling assumptions are provided in Table 11, Decommissioning Scenario Assumptions. Default values for equipment mix, horsepower, and load factor provided in CalEEMod were used for all construction equipment. For the analysis, it was generally assumed that heavy-duty equipment would be operating at the site 5 days per week. For the purposes of estimating emissions, it was assumed that worker trips and truck trips would be made to the site independently; however, it is likely that workers would drive trucks to and from the site for removal of materials rather than driving in a separate vehicle. Therefore, the estimates provides in Table 11 are conservative. Detailed construction equipment modeling assumptions are provided in Appendix A.

Table 11
Decommissioning 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
Campo Wind Facilities - System disassembly and removal	168	1,178	0	Cranes	1	8
				Generator Sets	2	8
				Off-Highway Trucks	6	8
				Other Construction Equipment	4	8
				Rough Terrain Forklifts	4	8
Campo Wind Facilities - Site cleanup & restoration	72	0	0	Graders	4	8
				Skid Steer Loaders	1	8
Boulder Brush Facilities - System disassembly and removal	96	30	0	Cranes	1	8
				Generator Sets	1	8
				Off-Highway Trucks	4	8
				Other Construction Equipment	2	8
				Rough Terrain Forklifts	2	8

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Table 11
Decommissioning 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
Boulder Brush Facilities - Site cleanup & restoration	48	0	0	Graders	1	8
				Skid Steer Loaders	1	8

Note: See Appendix A for additional details.

The estimated number of workers and haul truck trips were provided by the applicant. Changes to any standard default values or assumptions are reported in the CalEEMod output (see Appendix A). Based on data provided by the Developer and from similar projects in the general vicinity of the Project Site, the worker mix was assumed to include 55% coming from the west (San Diego County area) and 45% coming from temporary house site located at the Sacred Rock RV Park. The haul-truck mix was assumed to include 45% from the east (Imperial County area) and 55% from the west (San Diego County area) (Terra-Gen 2019).

Carbon Monoxide Hotspots

Mobile source impacts occur on two scales of motion: regionally and locally. Regionally, travel related to the Project would add to regional trip generation and increase vehicle miles traveled within the local airshed and the SDAB. Locally, traffic generated by the Project would be added to the County's roadway system near the Project Area. If such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles "cold-starting" and operating at pollution-inefficient speeds, and is operating on roadways already congested with non-Project traffic, there is a potential for the formation of microscale CO hotspots in the area immediately around points of congested traffic.

In addition to the numerous factors that would need to be present for a CO hotspot to occur, the potential for CO hotspots in the SDAB is steadily decreasing because of the continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, and the already very low ambient CO concentrations. Furthermore, CO transport is extremely limited, and disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors such as residents, children, hospital patients, and older adults. Typically, high CO concentrations are associated with roadways or

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intersections operating at an unacceptable LOS. Projects contributing to adverse traffic impacts may result in the formation of CO hotspots.

As indicated in the County of San Diego Guidelines for Determining Significance and Report Format and Content Requirements – Air Quality (County of San Diego 2007), a site-specific CO hotspot analysis should be performed if a proposed development would cause road intersections to operate at or below a LOS E with intersection peak-hour trips exceeding 3,000. Projects that cause road intersections to operate at or LOS E (analysis required only when the addition of peak-hour trips from the Project and the surrounding projects exceeds 2,000) and create a CO hotspot, create a cumulatively considerable net increase of CO

Health Risk Assessment

As a precautionary measure, an HRA was performed to assess potential Project construction impacts on sensitive receptors proximate to the Project Area. This report includes an HRA associated with emissions from construction of the Project based on the methodologies prescribed in the Office of Environmental Health Hazard Assessment (OEHHA) Air Toxics Hot Spots Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2015). To implement the OEHHA Guidelines based on Project information, the SDAPCD has developed a three-tiered approach where each successive tier is progressively more refined, with fewer conservative assumptions. The SDAPCD Supplemental Guidelines for Submission of Air Toxics “Hot Spots” Program Health Risk Assessments provides guidance with which to perform HRAs within the SDAB (SDAPCD 2015b).

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SDAPCD recommends a carcinogenic (cancer) risk threshold of 10 in 1 million. However, the County implements a threshold of 1 in 1 million without the use of T-BACT and 10 in 1 million with the use of T-BACT. Additionally, some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The SDAPCD and County recommend a Chronic Hazard Index significance threshold of 1.0 (Project increment). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM. In addition to TAC emissions from exhaust, there are TACs found within the fugitive dust emissions created on site (from rock crushing, concrete batch plant operations, on-site vehicle traffic, and blasting). This HRA evaluated the risk to existing residents from diesel emissions from exhaust from on-site construction equipment and diesel haul and vendor trucks as well as fugitive dust emissions.

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The dispersion modeling of DPM was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SDAPCD requires for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2018). For the Project, AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground-level concentrations were determined for construction emissions using AERMOD and the maximum concentrations determined for the 1-hour and Period averaging periods. Principal parameters of this modeling are presented in Table 12.

Table 12
American Meteorological Society/Environmental
Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	The latest 3-year meteorological data (2013–2015) for the Campo Station from SDAPCD were downloaded and then input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. However, based on the SDAPCD guidelines and the Project location, the rural dispersion option was selected.
Terrain Characteristics	The terrain in the vicinity of the modeled Project Site is generally mountainous. The elevation of the modeled site is between 3,030 and 4,320 feet above sea level. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
Elevation Data	Digital elevation data were imported into AERMOD, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD View in the United States Geological Survey’s National Elevation Dataset format with a 10-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of DPM from construction equipment and diesel vehicles was conducted using emissions estimated using the CalEEMod, assuming emissions would occur up to 8 hours per day, 5 days per week. The Project Area was modeled as a series of volume sources.
Source Release Characterizations	The source release height was assumed to be 5 meters. The length of the volume sources was assumed to be 25 meters on each side with an initial lateral and vertical dimension of 5.81 meters.
Discrete Receptors	The receptors in proximity to the site are very infrequent and sporadic. Discrete receptors were placed at identified existing residential structures.

Source: See Appendix B.

SDAPCD = San Diego Air Pollution Control District; AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; DPM = diesel particulate matter; CalEEMod = California Emissions Estimator Model.

Dispersion model plotfiles from AERMOD were then imported into CARB’s Hotspots Analysis and Reporting Program Version 2 to determine health risk, which requires peak 1-hour emission rates and annual-averaged emission rates for all pollutants for each modeling source. For the

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residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy. The nearest sensitive-receptor land use (existing residence) to disturbance areas would be located approximately 200 feet from construction activities related to the Campo Wind Facilities and 38 feet from construction activities related to the Boulder Brush Facilities.

In addition to the cancer and non-cancer HRA prepared for the Project, a lead exposure screening assessment was performed in accordance with the CARB's Risk Management Guidelines for Lead (CARB 2001). This screening utilized the same AERMOD setup as described above in the HRA but used lead as the pollutant and modelled the actual emissions of lead for the Project, as opposed to the unit emissions rate of 1 gram per second.

2.4.2.2 Operational Emissions

Emissions from the operational phase of the Project were estimated using CalEEMod Version 2016.3.2. Operational year 2021 was assumed upon construction completion. The Project is anticipated to operate for the term of the Campo Lease and any renewal extension (approximately 30 years, at minimum). 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 approximately 10 to 12 full-time employees throughout the life of the Project, generating 12 round trips per day (24 one-way trips), 7 days per week. Security staff traveling throughout the Project Area would use light-duty pickup trucks. Although workers may come from areas closer to the Project Area, such as the community of Campo, workers were conservatively assumed to travel from downtown San Diego (68 miles one-way). The Boulder Brush Facilities would require occasional maintenance 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.

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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.

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 Facility

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. It is anticipated that on-site groundwater on Reservation would be used for the O&M facility's water demand, otherwise water would be trucked in from Jacumba Community Services District (JCSD) or Padre Dam Municipal Water District (PDMWD).

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Fire Management

Fuel modification zones within which vegetation would be annually cropped to limit vegetation height and fire fuel potential around Project facilities would be maintained during Project operations.

Stationary Sources

The Project would include four 150-kilowatt diesel emergency generators, required at the O&M Facility, the collector substation, the high-voltage substation, and the switchyard. 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 Air Quality Impact Analysis

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.

2.5.1 Conformance to the Regional Air Quality Strategy

Guideline for the Determination of Significance

Based on Appendix G of the CEQA Guidelines the Project would have a significant impact if it would:

- Conflict with or obstruct the implementation of the RAQS and/or applicable portions of the SIP.

Significance of Impacts Prior to Mitigation

The SDAPCD and SANDAG are responsible for developing and implementing the clean air plans for attainment and maintenance of the ambient air quality standards in SDAB; specifically, the SIP and RAQS.¹⁰ The federal O₃ maintenance plan, which is part of the SIP, was adopted in 2016. The SIP includes a demonstration that current strategies and tactics will maintain acceptable air quality in the SDAB based on the NAAQS. The RAQS was initially adopted in 1991 and is updated on a

¹⁰ For the purpose of this discussion, the relevant federal air quality plan is the ozone maintenance plan (SDAPCD 2016a). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

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triennial basis (most recently in 2016). The RAQS outlines SDAPCD's plans and control measures designed to attain the state air quality standards for O₃. The SIP and RAQS rely on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in San Diego County and the cities in county, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by San Diego County and the cities in the County as part of the development of their general plans.

If a project involves development that is greater than that anticipated in the local plan and SANDAG's growth projections, that project might be in conflict with the SIP and RAQS and may contribute to a potentially significant cumulative impact on air quality. The Project Site is located partially on Reservation lands and partially on private land southeastern San Diego County. The Project Site consists of the western and central portions of the Reservation. The Project Site is largely open rangeland/desert surrounded by rural residential homes and ranches scattered throughout the region. The Project would include neither a residential component that would increase local population growth, nor a commercial component that would substantially increase employment; rather, the Project would construct and operate a renewable energy generation project.

In the County's General Plan EIR, the land use designation for the Boulder Brush Facilities is designated as Rural Lands 80 (RL-80) (County of San Diego 2011a). The Boulder Brush Facilities is zoned General Rural (S92) by the County of San Diego Zoning Map (County of San Diego 2017a). Minor and major impact utilities are allowed with approval of a use permit (County of San Diego 2017b). Major impact services and utilities (e.g., wind energy facilities) and minor impact utilities (e.g., electrical distribution substations) are defined under Sections 1350 and 1355 of the County Zoning Ordinance. The Boulder Brush Facilities require approval of a Major Use Permit from the County, but would not require a change in land use designation or zoning. The County's General Plan and zoning do not cover land within the Reservation Boundary.

The Project is anticipated to generate approximately 12 round trips per day (24 one-way trips) as a result of 10 to 12 operational employees traveling to and from the Project Site from downtown San Diego.

Moreover, construction of the Project would not result in residential, commercial, or growth-inducing development that would result in a substantial increase in growth-related emissions. During operation, staff would visit various on-site Project components periodically for maintenance and other operational activities. Maintenance trucks would be used to perform routine maintenance, including equipment testing, monitoring, repair, routine procedures to ensure service continuity, and standard preventive maintenance. Operation of the Project would result in a

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negligible increase in local employment and associated trips. Since the Project would not contribute to local population growth or substantial employment growth and the growth-related emissions, the Project is considered accounted for in the SIP and RAQS, and the Project would not conflict with or obstruct implementation of local air quality plans; therefore, impacts would be **less than significant**.

Mitigation Measures

None required.

Level of Significance after Mitigation

Impacts would be less than significant without mitigation.

2.5.2 Cumulatively Considerable Net Increase of Criteria Air Pollutants

The EPA and CARB set the Federal and State Ambient Air Quality Standards to be protective of human health. Table 13 presents a list of the criteria pollutants and other related pollutants of concern and associated emission sources, health effects, and current SDAB attainment status.

Table 13
Pollutants, Sources, Health Effects, and Attainment Status

Pollutant	Sources	Health Effects	Attainment Status	
			NAAQS	CAAQS
Ozone (O ₃)	Formed when volatile organic compounds (VOCs) and oxides of nitrogen (NO _x) react in the presence of sunlight. VOC sources include any source that burns fuels (e.g., gasoline, natural gas, wood, and oil), solvents, coatings, consumer products, and petroleum processing and storage.	Breathing difficulties, lung tissue damage, and vegetation damage.	Nonattainment	Nonattainment
Nitrogen Dioxide (NO ₂)	See carbon monoxide.	Lung irritation and damage. Reacts in the atmosphere to form ozone and acid rain.	Unclassifiable/Attainment	Attainment
Carbon Monoxide (CO)	Any source that burns fuel such as automobiles, trucks, heavy construction and farming equipment, and residential and industrial heating.	Chest pain in heart patients, headaches, reduced mental alertness.	Attainment	Attainment

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Table 13
Pollutants, Sources, Health Effects, and Attainment Status

Pollutant	Sources	Health Effects	Attainment Status	
			NAAQS	CAAQS
Sulfur Dioxide (SO ₂)	Coal- or oil-burning power plants and industries, refineries, diesel engines.	Increases lung disease and breathing problems for asthmatics. Reacts in the atmosphere to form acid rain.	Unclassifiable/Attainment	Attainment
Respirable Particulate Matter (PM ₁₀)	Road dust, windblown dust, agriculture and construction, fireplaces. Also formed from other pollutants (NO _x , SO _x , organics). Incomplete combustion.	Increased respiratory disease, lung damage, cancer, premature death.	Unclassifiable/Attainment	Nonattainment
Fine Particulate Matter (PM _{2.5})	Fuel combustion in motor vehicles, equipment, and industrial sources; residential and agricultural burning. Also formed from reaction of other pollutants (NO _x , SO _x , VOCs, and ammonia).	Increases respiratory disease, lung damage, cancer, and premature death. Particles can aggravate heart diseases such as congestive heart failure and coronary artery disease.	Unclassifiable/Attainment	Nonattainment
Lead	Metal smelters, resource recovery, leaded gasoline, deterioration of lead paint.	Learning disabilities, brain and kidney damage.	Unclassifiable/Attainment	Attainment
Sulfates	Produced by reaction in the air of SO ₂ , (see SO ₂ sources), a component of acid rain.	Breathing difficulties, aggravates asthma.	No federal standard	Attainment
Hydrogen Sulfide	Geothermal power plants, petroleum production and refining, sewer gas.	Headache and breathing difficulties (higher concentrations).	No federal standard	Unclassified
Vinyl Chloride	Exhaust gases from factories that manufacture or process vinyl chloride (construction, packaging, and transportation industries).	Central nervous system effects (e.g., dizziness, drowsiness, headaches), kidney irritation, liver damage, liver cancer.	No federal standard	No designation

Source: County of San Diego 2007.

Attainment = meets the standards; 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.

N/A = Not Applicable

In analyzing cumulative impacts from a project, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the SDAB is listed as nonattainment for the state and federal ambient air quality standards. The SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. The nonattainment status is the result of cumulative emissions from all sources of these air pollutants and their precursors within the SDAB. A project would have a cumulatively considerable impact

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if emissions generated by the project would exceed thresholds for VOC or NO_x (O₃ precursors), PM₁₀, and/or PM_{2.5}. If the project does not exceed thresholds and is determined to have less-than-significant impacts, it may still have a cumulatively considerable impact on air quality if emissions from the project, in combination with emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds. However, a project would have a cumulative impact only if the project's contribution accounts for a significant proportion of the cumulative total emissions.

Background ambient air quality, as measured at the monitoring stations maintained and operated by SDAPCD, is the concentration of pollutants from existing sources; therefore, past and present impacts are included in the background ambient air quality data.

Geographic Extent

The geographic extent for the analysis of cumulative impacts related to air quality is the south-central portion of the SDAB (San Diego County). Due to the nonattainment status of the SDAB, the primary air pollutants of concern are VOC and NO_x, which are O₃ precursors, and PM₁₀ and PM_{2.5}. Because of the nature of O₃ as a regional air pollutant, emissions from the entire geographic area for this cumulative impact analysis would tend to be important. PM₁₀ and PM_{2.5} impacts, on the other hand, tend to occur locally; thus, projects occurring in the same general area and in the same time period tend to create cumulative air quality impacts.

Existing Cumulative Conditions

Air quality management in the geographic area for the cumulative impact assessment is the responsibility of the SDAPCD. Existing levels of development in the County have led to the nonattainment status for O₃ with respect to the CAAQS and NAAQS, and for PM₁₀ and PM_{2.5} with respect to the CAAQS. The nonattainment status is based on ambient air quality monitoring generally conducted in the urban portions of the County. Due to its proximity to the Project Site (approximately 33 miles west of the Project Site), similar geographic and climactic characteristics, and available measured ambient concentrations of pollutants, the El Cajon-Lexington Elementary monitoring station monitors concentrations for all pollutants, and is considered most representative of the Project Site. The air quality plans prepared by the SDAPCD reflect future growth under local development plans, but they are intended to reduce emissions Countywide to levels that would comply with the NAAQS and CAAQS through implementation of new regulations at the local, state, and federal levels.

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The separate guidelines of significance discussed below were developed to respond to the following question from the CEQA Guidelines Appendix G:

- Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is nonattainment under an applicable federal or State ambient air quality standard?

Construction Impacts

Guidelines for the Determination of Cumulative Significance

Cumulatively considerable net increases during the construction phase would typically occur if two or more projects near each other are simultaneously under construction. The following guidelines for determining significance must be used for determining the cumulatively considerable net increases during the construction phase:

- A project that has a significant direct impact on air quality with regard to emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase.
- In the event direct impacts from a project are less than significant, a project may still have make a cumulatively considerable contribution to significant cumulative impacts on air quality if the emissions of concern from that project, in combination with the emissions of concern from other projects being constructed at the same time project within a proximity relevant to the pollutants of concern would together exceed the guidelines.

Significance of Impacts Prior to Mitigation

In analyzing cumulative impacts from a project, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS.¹¹ If a project's emissions do not exceed thresholds and is determined to have less-than-significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality if the emissions from the project, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds.

Construction of the Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, soil disturbance, VOC off-

¹¹ The Project Area is designated as maintenance for CO under the NAAQS. Although not required by County of San Diego guidelines, potentially significant impacts from CO emissions are also discussed herein.

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gassing from architectural coatings and asphalt pavement application, and internal haul trucks) and off-site sources (e.g., vendor trucks and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. 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, CO, PM₁₀, and PM_{2.5}. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions.

As discussed in Section 1.4, Project Design Features, Campo Wind Facilities and Boulder Brush Facilities would require implementation of dust control strategies as a PDF. To reflect implementation of proposed dust control strategies, the following was assumed in CalEEMod Version 2016.3.2:

- Water exposed area three times per day (61% reduction in PM₁₀ and PM_{2.5}).
- The “soil stabilizer for unpaved” option was used assuming an 84% reduction in PM₁₀ and PM_{2.5}.
- Limit vehicle travel on unpaved roads to 15 miles per hour.

The Project maximum daily construction emissions, with quantified reductions from PDF-AQ-1 through PDF-AQ-5 and compliance with SDAPCD rules, are summarized in Table 14.

Table 14
Estimated Project Maximum Daily Construction
Criteria Air Pollutant Emissions – Unmitigated
(with Project Design Features and San Diego Air Pollution Control District Rules)

Phase Description	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
2019						
Campo Wind Facilities	8.42	120.60	315.50	5.31	51.14	17.97
Boulder Brush Facilities	20.49	195.86	139.17	0.32	27.43	15.99
2019 Total	28.90	316.46	454.67	5.63	78.57	33.96
2020						
Campo Wind Facilities	13.30	84.56	266.58	0.72	26.64	8.96
Boulder Brush Facilities	12.05	93.45	100.39	0.22	11.13	6.30
2020 Total	23.35	178.01	366.96	0.94	37.77	15.26
Maximum Daily Emissions	28.90	316.46	454.67	5.63	78.57	33.96
Pollutant Threshold	75	250	550	250	100	55
Threshold Exceeded?	No	Yes	No	No	No	No

Source: See Appendix A.

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Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

Numbers may not add exactly due to rounding.

Gen-tie line construction criteria air pollutant emissions were proportioned based on 5 miles located within the Reservation Boundary and 3.5 miles located within the Boulder Brush Boundary.

Concrete batch plant, rock crushing, and blasting emissions were calculated separately and included in the 2019 construction emissions.

Project emissions include quantified reductions from PDF-AQ-1 through PDF-AQ-5.

As shown in Table 14, maximum daily construction emissions would not exceed SDAPCD's daily thresholds for VOC, CO, SO_x, PM₁₀, and PM_{2.5}. Emissions of NO_x would exceed the daily emission threshold of significance. Thus, impacts would be **potentially significant**; therefore, mitigation is required.

Boulder Brush Facilities' estimated maximum daily construction emissions are summarized in Table 15.

Table 15
Estimated Maximum Daily Boulder Brush Facilities
Construction Criteria Air Pollutant Emissions – Unmitigated

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Pounds per Day</i>						
2019	20.49	195.86	139.17	0.32	27.43	15.99
2020	12.05	93.45	100.39	0.22	11.13	6.30
Maximum Daily Emissions	20.49	195.86	139.17	0.32	27.43	15.99
<i>Pollutant Threshold</i>	75	250	550	250	100	55
Threshold Exceeded?	No	No	No	No	No	No

Source: See Appendix A.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

Emissions represent Boulder Brush Facilities construction activities only, and emissions from concrete batch plant were calculated separately and included in the 2019 construction emissions.

Gen-tie line construction criteria air pollutant emissions were proportioned based on 5 miles located within the Reservation Boundary and 3.5 miles located within the Boulder Brush Boundary.

Boulder Brush Facilities estimated emissions within the County of San Diego include compliance with all regulations and PDF-AQ-2.

Numbers may not add exactly due to rounding.

As shown in Table 15, maximum daily construction emissions from construction of Boulder Brush Facilities would not exceed SDAPCD's daily thresholds for VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. Thus, impacts would be **less than significant**.

Construction of cumulative projects simultaneously with the Project would result in a temporary addition of pollutants to the local airshed caused by off-road construction equipment, soil disturbance, architectural coating and asphalt pavement VOC off-gassing, on-road haul trucks, vendor trucks, and worker vehicle trips. Fugitive dust (PM₁₀ and PM_{2.5}) emissions would primarily result from site preparation and grading activities. NO_x emissions would primarily result from the

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use of construction equipment and motor vehicles, the latter of which would generally be dispersed over a large area where the vehicles are traveling. VOC emissions would primarily result from architectural coatings of buildings, which by nature would be dispersed over the Project Site.

Without mitigation, maximum daily construction emissions of VOC, CO, SO_x, PM₁₀, and PM_{2.5} generated by the Project would not exceed the significance thresholds; however, the Project-generated maximum daily construction emissions would exceed the NO_x threshold. Construction would be short-term and temporary, lasting approximately 14 months. Once construction is completed, construction-related emissions would cease.

Should other projects occur in the vicinity of the Project during Project construction, significant effects related to NO_x emissions would be further intensified due to multiple sites with potential exhaust emissions from construction equipment, worker vehicles (resulting in increased NO_x emissions), and truck trips associated with material deliveries and on-site hauling activities. Due to the likelihood of a large number of off-site worker vehicle and truck trips required during construction of combined future projects in the cumulative study area, no feasible mitigation would be available to reduce cumulative effects for these criteria pollutants. As shown in Table 15, unmitigated construction emissions with implementation of PDFs and compliance with SDAPCD rules would exceed the threshold for NO_x. Therefore, the Project's cumulative construction effects would be **potentially significant**.

Mitigation Measures

Mitigation Measures M-AQ-1 through M-AQ-5 are provided to reduce VOCs, NO_x, PM₁₀, PM_{2.5}, and DPM emissions to the extent feasible. These mitigation measures would be required for Boulder Brush Facilities as part of the County's Major Use Permit approval.

M-AQ-1 Prior to the County of San Diego's (County's) approval of any construction-related permits, the Boulder Brush Developer or its designee shall place the following requirements on all plans, which shall be implemented during each construction phase to minimize volatile organic compound (VOC), carbon monoxide (CO), and oxides of nitrogen (NO_x) emissions:

- a. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the County that for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Final. An exemption from these requirements may be granted by the County in the event that the applicant documents that equipment with the required tier is not reasonably available and corresponding

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reductions in criteria air pollutant emissions are achieved from another construction equipment. Before an exemption may be considered by the County, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego region were contacted and that those owners/operators confirmed Tier 4 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.

M-AQ-2 Fugitive Dust Control. The following control measures shall be implemented to minimize fugitive dust (coarse particulate matter [PM₁₀] and fine particulate matter [PM_{2.5}]) and diesel particulate matter, to comply with County Code Section 87.428 (Grading Ordinance), and with San Diego Air Pollution Control District (SDAPCD) Rule 55 (Fugitive Dust Control). Prior to the County's issuance of any Grading Permits, the Boulder Brush Developer or its designee shall demonstrate compliance with the requirements of this mitigation measure on site and grading plans prepared as part of the Grading Permit application:

- a. An SDAPCD-approved non-toxic dust control agent shall be used on the grading areas or watering shall be applied at least three times daily.
- b. All main roadways 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 indicated in (c) 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.

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- 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.
- 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.

M-AQ-3 The following measures shall be implemented for the Boulder Brush Facilities to reduce fugitive dust emissions (PM₁₀ and PM_{2.5}) associated with blasting and rock-crushing activities. Prior to the County of San Diego's issuance of any Grading Permits, the Boulder Brush Developer or its designee shall demonstrate compliance with the requirements of this mitigation measure on site and grading plans prepared as part of the Grading Permit application:

- 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, in accordance with San Diego Air Pollution Control District (SDAPCD) Rule 50, Visible Emissions. A qualified opacity observer shall monitor opacity from crushing activities once every 30 days while crushers are employed on site to ensure

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compliance with SDAPCD Rule 50. Water sprayers, conveyor belt enclosures, or other mechanisms shall be employed to reduce fugitive dust generated during transfer and conveyance of crush material.

M-AQ-4 To reduce emissions of NO_x, CO, SO_x, PM₁₀, and PM_{2.5}, all Boulder Brush Facilities 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.

M-AQ-5 The Boulder Brush Facilities shall comply with the following volatile organic compound (VOC) content limits for architectural coatings during construction for residential and non-residential and uses: 50 grams per liter VOC for interior surfaces and 100 grams per liter VOC for exterior coatings.

Level of Significance After Mitigation

Table 16 shows maximum daily emissions following implementation of PDF-AQ-1 through PDF-AQ-5 and M-AQ-1 through M-AQ-5. Not all mitigation measures are quantifiable; therefore, Table 16 only reflects the emission reductions attributable to the use of Tier 4 Final equipment, reduction of vehicle speeds on unpaved roads to 15 miles per hour, and the fugitive dust control measure of watering graded areas at least three times daily.

Table 16
**Estimated Project Maximum Daily Construction Criteria Air Pollutant Emissions –
Mitigated (with Project Design Features and Mitigation Measures)**

Phase Description	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Pounds per Day</i>						
2019						
Campo Wind Facilities	8.42	120.60	315.50	5.31	51.14	17.97
Boulder Brush Facilities	5.45	33.31	143.14	0.32	19.94	7.96
2019 Total	13.87	153.91	458.64	5.63	71.07	25.93
2020						
Campo Wind Facilities	13.30	84.56	266.58	0.72	26.64	8.96
Boulder Brush Facilities	4.22	19.25	107.09	0.22	6.63	1.99
2020 Total	17.53	103.81	373.67	0.94	33.28	10.95

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Table 16
Estimated Project Maximum Daily Construction Criteria Air Pollutant Emissions –
Mitigated (with Project Design Features and Mitigation Measures)

Phase Description	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	<i>Pounds per Day</i>					
Maximum Daily Emissions	17.53	153.91	458.64	5.63	71.07	25.93
<i>Pollutant Threshold</i>	75	250	550	250	100	55
Threshold Exceeded?	No	No	No	No	No	No

Source: See Appendix A.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

Numbers may not add exactly due to rounding.

Gen-tie line construction criteria air pollutant emissions were proportioned based on 5 miles located within the Reservation Boundary and 3.5 miles located within the Boulder Brush Boundary.

Concrete batch plant, rock crushing, and blasting emissions were calculated separately and included in the 2019 construction emissions.

Emissions include PDF-AQ-1 through PDF-AQ-5 and M-AQ-1 through M-AQ-5 implementation of Tier 4 Final equipment, reduction of vehicle speeds on unpaved roads to 15 miles per hour, and watering.

As shown in Table 16, following implementation of PDF-AQ-1 through PDF-AQ-5 and M-AQ-1 through M-AQ-5, daily emissions from VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} would be below the thresholds of significance. It should be noted that not all reductions that would result from implementation of PDFs and mitigation provided in PDF-AQ-1 through PDF-AQ-5 and M-AQ-1 through M-AQ-5 are quantifiable; therefore, emissions shown in Table 16 are overestimated and emissions would be further reduced on a daily basis. Impacts would be **less than significant** with mitigation.

Decommissioning Impacts

Section 2.4.2.1, Construction Emissions Methodology, presents the methodology and assumptions used to estimate emissions from decommissioning 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 (truck trips and worker vehicle trips).

Table 17, Estimated Maximum Daily Decommissioning Criteria Air Pollutant Emissions – Unmitigated, shows the estimated maximum daily decommissioning emissions.

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Table 17
Estimated Project Maximum Daily Decommissioning
Criteria Air Pollutant Emissions – Unmitigated
(with Project Design Features and San Diego Air Pollution Control District Rules)

Phase Description	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	<i>Pounds per Day</i>					
	<i>2050</i>					
Campo Wind Facilities	6.43	17.99	62.75	0.21	5.47	1.70
Boulder Brush Facilities	4.07	9.53	36.29	0.12	2.99	0.95
Maximum Daily Emissions	<i>10.50</i>	<i>27.52</i>	<i>99.04</i>	<i>0.33</i>	<i>8.46</i>	<i>2.64</i>
<i>Pollutant Threshold</i>	<i>75</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>55</i>
Threshold Exceeded?	No	No	No	No	No	No

Source: See Appendix A.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

Numbers may not add exactly due to rounding.

Project emissions include quantified reductions from PDF-AQ-2.

As shown in Table 17, maximum daily decommissioning emissions would not exceed the thresholds for VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. Thus, impacts would be **less than significant**.

Operational Impacts

Guidelines for the Determination of Cumulative Significance

The SDAB's RAQS is based on growth projections derived from the allowed general plan densities, is typically updated every 3 years by SDAPCD and lays out the programs for attaining the CAAQS for O₃ precursors. It is assumed that if a project conforms to the County General Plan and does not have emissions exceeding the screening-level thresholds, it will not create a cumulatively considerable net increase for O₃ or PM since the emissions of O₃ precursors and PM from other current and foreseeable development were accounted for in the RAQS and past emissions are accounted for in the establishment of the CAAQS.

The following guidelines for determining significance are used for determining the cumulatively considerable net increases during the operational phase:

- A project that does not conform to the RAQS and/or has a significant direct impact on air quality with regard to operational emissions of PM₁₀, PM_{2.5}, NO_x, and/or VOCs would also have a significant cumulatively considerable net increase.

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- Projects that cause road intersections to operate at or below LOS E (analysis only required when the addition of peak-hour trips from a project and surrounding projects exceeds 2,000) and create a CO hotspot create a cumulatively considerable net increase of CO.

Significance of Impacts Prior to Mitigation

With regard to cumulative impacts associated with O₃ precursors (NO_x and VOCs) and PM, in general, if a project is consistent with the community and general plans, it has been accounted for in the PM and O₃ attainment demonstration contained within the RAQS. As such, it would not make a cumulatively considerable contribution to significant cumulative impacts on the ambient air quality for O₃, PM_{2.5}, or PM₁₀.

As previously described, the land within the Boulder Brush Boundary is designated RL-80 and is zoned S92. Per the County Zoning Ordinance, the Boulder Brush Facilities can only be developed with approval of a Major Use Permit. The densities provided by the RL designations are the lowest in the unincorporated County, and are intended to reflect and preserve the rural agricultural, environmentally constrained, and natural “backcountry” areas of the County (County of San Diego 2011a). Permitted land uses in the S92 zones are single-family residential; civic uses limited to essential services, fire protection services, and law enforcement services; and agricultural uses. The County Zoning Ordinance categorizes the Project as a civic use type, and more specifically as a major impact services and utilities land use; therefore, operational cumulative emissions would be accounted for in the RAQS.

The Project would include neither a residential component that would increase local population growth, nor a commercial component that would substantially increase employment; rather, the Project would construct and operate a renewable energy generation project. Implementation of the Project would not result in development in excess of that anticipated in local plans or increases in population/housing growth beyond those contemplated by SANDAG. As such, vehicle trip generation and planned development for the Project is considered to be anticipated in the SIP and RAQS.

Operation of the Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources, including vehicle trips from employees, and stationary sources, including two emergency generators used for back-up and testing and maintenance of the emergency generators. Criteria air pollutant emissions associated with long-term operations were quantified using CalEEMod.

Boulder Brush Facilities would include minimal operational activities from periodic maintenance and other operational activities. Thus, impacts would be **less than significant**.

The Project’s annual operational emissions are summarized in Table 18.

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Table 18
Estimated Project Maximum Annual Operational Criteria Air Pollutant Emissions

Emission Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	<i>Tons per Year</i>					
Area	0.11	0.00	0.00	0.00	0.00	0.00
Mobile	0.07	0.21	2.01	<0.01	0.51	0.14
Stationary	0.66	1.83	1.67	<0.01	0.10	0.10
Total Annual Emissions	0.83	2.04	3.68	0.01	0.61	0.23
<i>Pollutant Threshold</i>	13.7	40	100	40	15	10
Threshold Exceeded?	No	No	No	No	No	No

Source: See Appendix A.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.

Numbers may not add exactly due to rounding.

As shown in Table 18, the Project's annual emissions from operational emissions are less than the County's emissions thresholds. Thus, the Project's operational air quality impacts would be **less than significant**.

Health Impacts

Construction (after mitigation), operation, and decommissioning of the Project would not result in emissions that exceed the County's emission thresholds for any criteria air pollutants. Regarding VOCs, some VOCs would be associated with motor vehicles, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the County's thresholds. Generally, the VOCs in architectural coatings are of relatively low toxicity and required to meet VOC limits for architectural coatings in SDAPCD Rule 67.0.1.

In addition, VOCs and NO_x are precursors to O₃, which the SDAB is designated as nonattainment for with respect to the NAAQS (2008 8-hour) and CAAQS (the SDAB is designated by EPA as an attainment area for the 1-hour O₃ NAAQS standard and 1997 8-hour NAAQS standard). The health effects associated with O₃ are generally associated with reduced lung function. The contribution of VOCs and NO_x to regional ambient O₃ concentrations is the result of complex photochemistry. The increases in O₃ concentrations in the SDAB due to O₃ precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O₃ concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O₃ ambient air quality standards tend to occur between April and October when solar radiation is highest.

Similar to O₃, construction (after mitigation), operation, and decommissioning of the Project would not exceed thresholds for PM₁₀ or PM_{2.5} and would not contribute to exceedances of the NAAQS

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and CAAQS for particulate matter (SDAB is a state nonattainment area for PM₁₀ and PM_{2.5}). The Project would also not result in substantial DPM emissions during decommissioning and operation and, therefore, would not result in significant health effects related to DPM exposure (health risks from DPM during construction are analyzed in the Toxic Air Contaminants section below, in Section 2.5.3). Due to the minimal contribution of particulate matter during decommissioning and operation, the Project would not result in significant health impacts. PM₁₀ and PM_{2.5} would not contribute to potential exceedances of the NAAQS and CAAQS for particulate matter, obstruct the SDAB from coming into attainment for these pollutants, or contribute to significant health effects associated with particulates.

Regarding NO₂, construction (after mitigation), operation, and decommissioning of the Project would not contribute to exceedances of the NAAQS and CAAQS for NO₂ (for analysis purposes, NO_x emissions were assumed to be NO₂ emissions). NO₂ and NO_x health impacts are associated with respiratory irritation. However, these NO_x emissions during construction (after mitigation), operation, and decommissioning would be minimal and infrequent. Therefore, the Project would not result in significant health impacts.

The VOC and NO_x emissions, as described previously, would minimally contribute to regional O₃ concentrations and the associated health effects. In addition to O₃, with mitigation, NO_x emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO₂. As shown in Table 6, the existing NO₂ concentrations in the area are well below the NAAQS and CAAQS standards. Thus, it is not expected the Project's mitigated construction or unmitigated decommissioning and operational NO_x emissions would result in exceedances of the NO₂ standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. As discussed previously, the Project would not create any CO hotspots, and CO impacts would be less-than-significant. Thus, the Project's CO emissions would not contribute to significant health effects associated with this pollutant. In sum, construction (after mitigation), operation, and decommissioning of the Project would not contribute to potential exceedances of the NAAQS and CAAQS, obstruct the SDAB from coming into attainment for the pollutants for which it is out of attainment (O₃ and particulate matter), or contribute to significant health effects associated with particulates.

Projects that cause road intersections to operate at or below LOS E (analysis only required when the addition of peak-hour trips from a project and surrounding projects exceeds 2,000) and create a CO hotspot create a cumulatively considerable net increase of CO. The Project would not cause any road intersection to operate at or below LOS E, and therefore would not make a cumulatively considerable contribution to significant cumulative impacts from CO emissions.

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Mitigation Measures

None required.

Level of Significance After Mitigation

Impacts would be less than cumulatively considerable without mitigation.

2.5.3 Impacts to Sensitive Receptors

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Reduced visibility, eye irritation, and adverse health impacts upon sensitive receptors are the most serious hazards of existing air quality conditions in the area. Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. Air quality regulators typically define sensitive receptors as schools (preschool–12th grade), hospitals, resident care facilities, daycare centers, and other facilities that may house individuals with health conditions that would be more susceptible to adverse health impacts than the general public from adverse changes in air quality. For the purposes of CEQA analysis in the County, the definition of a sensitive receptor also includes residents.

The two primary emissions of concern regarding health effects for land development projects are DPM during construction and CO hotspots related to traffic congestion.

Construction Impacts

Guidelines for the Determination of Significance

Based on Appendix G of the CEQA Guidelines, a project would have a significant impact if it would:

- Expose sensitive receptors to substantial pollutant concentrations.

Substantial concentration may be further measured using the following:

- The project would result in CO emissions that when totaled with the ambient concentrations will exceed a 1-hour concentration of 20 ppm or an 8-hour average of 9 ppm. Projects that cause road intersections to operate at or below LOS E and the addition of peak-hour trips from a project and surrounding projects exceeds 2,000 have the potential to create CO concentrations exceeding the CAAQS.

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- Project implementation would result in exposure to TACs resulting in a maximum incremental cancer risks equal to or greater than 10 in 1 million, or cancer burden equal to or greater than 1.0, or total acute non-cancer health hazard index equal to or greater than 1.0, or total chronic non-cancer health hazard index equal to or greater than 1.0 would be deemed as having a potentially significant impact.
- Lead exposure equal to or greater than 0.12 $\mu\text{g}/\text{m}^3$.

Significance of Impacts Prior to Mitigation

Carbon Monoxide Hotspots

Mobile-source impacts occur basically on two scales of motion. Regionally, Project-related travel would add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SDAB. Locally, Project traffic would be added to the county roadway system in the vicinity of the Project. If such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles “cold-started” and operating at pollution-inefficient speeds, and is operating on roadways already crowded with non-Project traffic, a potential for the formation of microscale CO “hotspots” occurs in the area immediately around points of congested traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SDAB is steadily decreasing.

CO transport is extremely limited and disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors such as residents, school children, hospital patients, and the elderly. Typically, high CO concentrations are associated with roadways or intersections operating at an unacceptable LOS. Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. Per County of San Diego guidelines, a CO hotspot analysis is only required to be conducted for the operational scenario per Section 3.2 of the guidelines (County of San Diego 2007). As indicated in the County of San Diego Guidelines for Determining Significance and Report Format and Content Requirements Air Quality (County of San Diego 2007), a site specific CO hotspot analysis for Project operations should be performed if a proposed development would cause road intersections to operate at or below a LOS E with intersection peak-hour trips exceeding 2,000. Although a CO hotspot analysis is not required for construction activities, the following analysis is provided for disclosure purposes.

No intersections in the Project Vicinity would cause road intersections to operate at or below a LOS E. Trip generation and distribution for workers and delivery trucks would ultimately vary depending on the phase of construction; however, based on daily construction worker, vendor trip,

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and haul truck estimates, maximum daily trips resulting from construction activities would be approximately 1,102 one-way vehicle trips.

A Transportation Impact Analysis (Dudek 2019) was prepared for the Project and evaluated whether there would be a decrease in the LOS (e.g., congestion) at the intersections affected by the Project. The Project's traffic analysis evaluated eight intersections based on existing traffic volumes and current street geometry. With the addition of Project traffic, all study intersections are calculated to operate acceptably at LOS D or better during AM and PM peak hours. Therefore, the Project would not exceed the County's screening threshold and would not result in a CO hotspot and would not have the potential to result in CO emissions that when totaled with the ambient concentrations would exceed a 1-hour concentration of 20 ppm or an 8-hour average of 9 ppm. The impact would be **less than significant**.

Toxic Air Contaminants

"Incremental cancer risk" is the net increased likelihood that a person continuously exposed to concentrations of TACs resulting from a Project over a 9-, 30-, and 70-year exposure period would contract cancer based on the use of standard OEHHA risk-assessment methodology (OEHHA 2015). In addition, some TACs have non-carcinogenic effects. TACs that would potentially be emitted during construction activities would be DPM, emitted from heavy-duty construction equipment and heavy-duty trucks as well as TAC emissions within the fugitive dust generated by various sources on site (rock crushing, concrete batch plant, vehicle traffic, and blasting). Heavy-duty construction equipment and diesel trucks are subject to CARB Airborne Toxic Control Measures to reduce DPM emissions. According to the OEHHA, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should be limited to the period/duration of activities associated with the Project (OEHHA 2015). Thus, the duration of proposed construction activities (approximately 14 months) would only constitute a small percentage of the total long-term exposure period and would not result in exposure of proximate sensitive receptors to substantial TACs.

During Project construction, DPM emissions would be emitted from heavy-duty construction equipment and heavy-duty trucks. Heavy-duty construction equipment and diesel trucks are subject to CARB Airborne Toxic Control Measures (described in the Environmental Setting) to reduce DPM emissions. According to the OEHHA, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should be limited to the period/duration of activities associated with the Project. Because the Project would involve construction activities in several areas across the site, the Project would not require the extensive use of heavy-duty construction

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equipment or diesel trucks in any one location over the duration of development, which would limit the exposure of any proximate individual sensitive receptor to TACs.

An HRA was performed to evaluate the cancer and non-cancer risk from TAC emissions on existing sensitive receptors from construction activities. The cancer risk is different at every sensitive receptor location; however, the risk reported is conservatively the maximum cancer risk impact. The risk estimates generated by the HRA is an estimate of potential for risk. Cancer risk is expressed as the maximum number of new cases of cancer projected to occur in a population of 1 million people due to exposure to the cancer-causing substance over the exposure period. The HRA uses conservative (health-protective) exposure assumptions to avoid underestimating risk. For example, the risk estimate for airborne exposure to TAC emissions uses the conservative, health-protective assumption that the individual has a high breathing rate and exposure began as a fetus in the third trimester of pregnancy, when exposure risk is highest. The HRA methodology is further described in Section 2.4.2.1, Methodology, and the detailed assessment is provided in Appendix B, Health Risk Assessment, of this report. The results of the HRA on sensitive residential receptors On-Reservation and Off-Reservation for Project construction are summarized in Table 19.

Table 19
Project Construction Activity Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer risk – On-Reservation	Per Million	5.59	1.0	Potentially Significant
Cancer risk – Off-Reservation	Per Million	5.25	1.0	Potentially Significant
Chronic non-cancer health hazard index – On-Reservation	Hazard Index	0.0072	1.0	Less than Significant
Chronic non-cancer health hazard index – Off-Reservation	Hazard Index	0.0069	1.0	Less than Significant
Acute non-cancer health hazard index – On-Reservation	Hazard Index	0.0002	1.0	Less than Significant
Acute non-cancer health hazard index – Off-Reservation	Hazard Index	0.0002	1.0	Less than Significant
Lead exposure	µg/m ³	0.00009	0.12	Less than Significant

Source: Appendix B.

CEQA = California Environmental Quality Act; µg/m³ = microgram per cubic meter.

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The results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions would result in cancer risk on site above the 1 in 1 million threshold without application of T-BACT, chronic and acute non-cancer health hazard indexes of less than 1, and lead exposure less than 0.12 $\mu\text{g}/\text{m}^3$. Therefore, TAC emissions from construction of the Project may expose sensitive receptors to substantial pollutant concentrations. Impacts would be **potentially significant**.

Valley Fever

Valley Fever is not highly endemic to San Diego County, and within the County, the incidence rate in the Project vicinity is below the County average and the statewide average. Confirmed cases of Valley Fever have not been recorded near the Project Site nor during construction of other similar projects or earthmoving activities in the area. Based on the lack of recorded cases near the Project Site and in the greater County, and the Project's implementation of dust-control strategies, it is not anticipated that earth-moving activities during Project construction would result in exposure of nearby sensitive receptors to Coccidioidomycosis and potential to develop Valley Fever. Therefore, the Project would have a **less-than-significant impact** with respect to Valley Fever exposure for sensitive receptors.

Mitigation Measures

Carbon Monoxide Hotspots

None required.

Toxic Air Contaminants

M-AQ-1 and PDF-AQ-1 would be implemented to reduce emissions of TAC from construction-related exhaust. With implementation of M-AQ-1, Boulder Brush Facilities construction equipment with engines rated at 75 horsepower or higher would be required to use Tier 4 Final engines. With PDF-AQ-1, Campo Wind Facilities construction equipment with engines rated at 75 horsepower or greater would be required to use Tier 4 Final engines. Results of the HRA for Project construction including M-AQ-1 and PDF-AQ-1 are summarized in Table 20. It should be noted that the use of Tier 4 Final construction equipment would be considered T-BACT and the County's significance threshold would be 10 in 1 million, instead of the 1 in 1 million without implementation of T-BACT.

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Table 20
Project Construction Activity Health Risk Assessment Results – Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold with T-BACT	Level of Significance
Cancer Risk – On-Reservation	Per Million	0.41	10.0	Less than Significant
Cancer risk – Off-reservation	Per Million	0.40	10.0	Less than Significant
Chronic non-cancer health hazard index – On-Reservation	Hazard Index	0.0024	1.0	Less than Significant
Chronic non-cancer health hazard index – Off-Reservation	Hazard Index	0.0023	1.0	Less than Significant
Acute non-cancer health hazard index – On-Reservation	Hazard Index	0.0002	1.0	Less than Significant
Acute non-cancer health hazard index – Off-Reservation	Hazard Index	0.0002	1.0	Less than Significant
Lead Exposure	µg/m ³	0.00009	0.12	Less than Significant

Sources: Appendix B.

Notes: CEQA = California Environmental Quality Act; µg/m³ = microgram per cubic meter; T-BACT = best available control technology for toxics.

Results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions and fugitive dust sources would result in On-Reservation and Off-Reservation residences cancer risk below the 10 in 1 million threshold with application of T-BACT, chronic and acute non-cancer health hazard indices of less than 1.0, and lead exposure less than 0.12 µg/m³.

Level of Significance After Mitigation

Carbon Monoxide Hotspots

Impacts would be less than significant without mitigation.

Toxic Air Contaminants

The Project's residential cancer risk, acute and chronic non-cancer health hazard index indices, and lead exposure On-Reservation and Off-Reservation residences would be below County's thresholds of significance with implementation of M-AQ-1 and PDF-AQ-1; therefore, impacts would be **less than significant** after mitigation.

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Valley Fever Exposure

Impacts would be **less than significant** without mitigation.

Operational Impacts

Guidelines for the Determination of Significance

A significant impact would result if:

- The project places sensitive receptors near CO hotspots or creates CO hotspots near sensitive receptors.
- Project implementation would result in exposure to TACs resulting in a maximum incremental cancer risks equal to or greater than 10 in 1 million, or cancer burden equal to or greater than 1.0, or total acute non-cancer health hazard index equal to or greater than 1.0, or total chronic non-cancer health hazard index equal to or greater than 1.0 would be deemed as having a potentially significant impact.

Significance of Impacts Prior to Mitigation

Carbon Monoxide Hotspots

To verify that the Project would not cause or contribute to a violation of the CO standards, a screening evaluation of the potential for CO hotspots was conducted using the California Department of Transportation and the U.C. Davis Institute of Transportation Studies Transportation Project-Level Carbon Monoxide Protocol (CO Protocol) (Caltrans 2010). The County recommends that a local CO hotspot analysis be conducted if the intersection is at LOS E or worse and where a Project operates at peak-hour trips exceeding 3,000 trips, or the intersection operates at LOS E or worse and under cumulative conditions exceeds 2,000 peak trips per hour. If the screening criteria are exceeded, additional site-specific analyses are performed to determine whether a Project would result in a significant impact.

Based on the Transportation Impact Analysis (Dudek 2019), the existing conditions at the study intersections operate acceptably at LOS B or better during AM and PM peak hours. Activities associated with O&M of the Project would include approximately 10 to 12 full-time staff, which would not likely generate significant daily or peak hour traffic. Therefore, Project operations would not exceed the County's screening threshold and would not result in a CO hotspot and would not have the potential to result in CO emissions that when totaled with the ambient concentrations would exceed a 1-hour concentration of 20 ppm or an 8-hour average of 9 ppm. The impact would be **less than significant**.

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Toxic Air Contaminants

The Project would include four standby diesel emergency generators, one at the O&M facility, one at the collector substation, one at the high-voltage substation, and one at the 500-kV switchyard. The generators would be operated infrequently for maintenance and testing and would only operate for 30 minutes each month for a total of up to 50 hours per year. Further, the generator at the O&M facility is approximately 1,500 feet from the closest sensitive receptor, the generator at the collector substation would be approximately 2,000 feet from the closest sensitive receptor, and the generators at the high-voltage substation and switchyard would be approximately 8,950 feet from the closest sensitive receptor. The distances exceed the Assembly Bill 3205, designed to protect schoolchildren from hazardous air contaminants. The law requires notification of parents of schoolchildren, neighboring businesses, and residents within 1,000 feet of a school site. Furthermore, CARB recommends avoiding siting new sensitive land uses within 1,000 feet of a distribution center or 1,000 feet of a major service or maintenance rail yard. Activities associated with these land uses may include uses of emergency generators on the site; therefore, the siting screening distance of 1,000 feet is used in this analysis. The generators would be located more than 1,000 feet from the closest sensitive receptors. As such, the Project would not result in substantial TAC or lead emissions that may affect nearby receptors. Impact would be less than the County's significance thresholds and **less than significant**.

Valley Fever Exposure

Activities associated with O&M would generate little to no earth disturbing activity and Valley Fever is not highly endemic to San Diego County, and within the County, the incidence rate in the Project Area is below the County average and the statewide average. The nearest sensitive-receptor land use (existing residence) is located approximately 200 feet of the Campo Wind Facilities and 38 feet of the Boulder Brush Facilities. Based on the low incidence rate of Coccidioidomycosis in the Project Area and in the greater County of San Diego, and that activities associated with O&M would generate little to no earth disturbing activity, it is not anticipated that Project operations would result in exposure of nearby sensitive receptors to Valley Fever. Therefore, Project operations would have a **less-than-significant impact** with respect to Valley Fever exposure for sensitive receptors.

Mitigation Measures

None required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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2.5.4 Other Emission Impacts

Odors are a form of air pollution that can present significant problems for both the source and surrounding community. Although offensive odors seldom cause physical harm, they can be annoying and cause concern.

Guidelines for the Determination of Significance

Based on Appendix G of the CEQA Guidelines, the Project would have a significant impact if:

- The project, which is not an agricultural, commercial, or an industrial activity subject to SDAPCD standards, as a result of implementation, would either generate objectionable odors or place sensitive receptors next to existing objectionable odors, which would affect a considerable number of persons.

California Health and Safety Code, Division 26, Part 4, Chapter 3, Section 41700, and SDAPCD Rule 51, commonly referred to as the public nuisance law, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to the public health or damage to property. The potential for an operation to result in odor complaints from a “considerable” number of persons in the area would be considered to be a significant, adverse odor impact.

Projects required to obtain permits from SDAPCD are evaluated by SDAPCD staff for potential odor nuisance, and conditions may be applied (or control equipment required) where necessary to prevent occurrence of public nuisance.

Odor issues are subjective because of the nature of odors themselves and because their measurements are difficult to quantify. As a result, this guideline is qualitative, and each Project is reviewed on an individual basis, focusing on the existing and potential surrounding uses and location of sensitive receptors.

Construction and Decommissioning

Section 6318 of the County of San Diego Zoning Ordinance requires that all commercial and industrial uses be operated so as not to emit matter causing unpleasant odors that are perceptible by the average person at or beyond any lot line of the lot containing said uses. Section 6318 goes on to further provide specific dilution standards that must be met “at or beyond any lot line of the lot containing the uses” (County of San Diego 1979). Title 25 of the Code of Federal Regulations, Section 11.447 (Maintaining a Public Nuisance), and SDAPCD Rule 51 (Public Nuisance) also prohibits emission of any material that causes nuisance to a considerable number of people or

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endangers the comfort, health, or safety of any person. A project construction that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

The sensitive air quality receptors are residences scattered on the Reservation and private lands surrounding the Project Site.

Construction and decommissioning of Project components would result in the emission of diesel fumes and other odors typically associated with construction and decommissioning activities. These compounds would be emitted in varying amounts on the Project Site depending on where construction and decommissioning activities are occurring. Sensitive receptors located within and in the vicinity of the construction and decommissioning activities may be affected; however, odors are highest near the source and would quickly dissipate. Any odors associated with construction and decommissioning activities would be temporary and would cease upon Project completion; therefore, odor impacts would be **less than significant**.

Mitigation Measures

None required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

Operation

Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The Project would not include land uses that would generate objectionable odors, and the Project land use would not attract people to an area where there would be a potential for exposure to objectionable odors.

Although odor impacts are unlikely, the Boulder Brush Boundary located within the County jurisdiction would be required to comply with the County odor policies enforced by SDAPCD, including Title 25 of the Code of Federal Regulations, Section 11.447 (Maintaining a Public Nuisance), SDAPCD Rule 51, and County Zoning Code Section 6318, in the event a nuisance complaint occurs, which prohibit nuisance odors and identify enforcement measures to reduce odor impacts to nearby receptors. As such, the Boulder Brush Facilities would not generate objectionable odors. As noted above, the Campo Wind Facilities located on the Reservation would

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not generate objectionable odors. Therefore, potential Project impacts associated with odors would be **less than significant**.

Mitigation Measures

None required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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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; IPCC 2014). 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 2014). 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 2014). 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.¹²

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 outgassing; 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

¹² The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (IPCC 1995), IPCC Fourth Assessment Report (2007), the California Air Resources Board's Glossary of Terms Used in GHG Inventories (CARB 2016a), and the U.S. Environmental Protection Agency's Glossary of Climate Change Terms (EPA 2016c).

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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 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

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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 2014).

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 (MT) of CO₂ equivalent (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.

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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 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.

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

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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 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 2018), 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 2018).

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

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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 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

Federal regulations are applicable to the Boulder Brush Facilities and to the Campo Wind Facilities.

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

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administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal CAA:

- 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 CAA.

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 (EO) 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

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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 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 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

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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 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.

3.2.2 State Regulations

The statewide GHG emissions regulatory framework is summarized below by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, solid waste, water, and other state regulations and goals. The following text describes executive orders, legislation, regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State regulations are applicable to the Boulder Brush Facilities because they would be located on private lands within the County. State regulations are not applicable to the Reservation or Campo Wind Facilities.

State Climate Change Targets

The state has taken a number of actions to address climate change. These include executive orders, legislation, and CARB plans and requirements. These are summarized below.

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EO S-3-05. EO S-3-05 (June 2005) established California’s GHG emissions reduction targets and laid out responsibilities among the state agencies for implementing the executive order and for reporting on progress toward the targets. This executive order established the following targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

EO S-3-05 also directed the California Environmental Protection Agency to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. The Climate Action Team was formed, which subsequently issued reports from 2006 to 2010 (CAT 2016).

AB 32. In furtherance of the goals established in EO S-3-05, the Legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California’s GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the state’s long-range climate objectives.

SB 32 and AB 197. SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, in order to provide ongoing oversight over implementation of the state’s climate policies. AB 197 also added two members of the Legislature to the Board as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and, requires CARB to identify specific information for GHG emissions reduction measures when updating the scoping plan.

CARB’s 2007 Statewide Limit. In 2007, in accordance with California Health and Safety Code, Section 38550, CARB approved a statewide limit on the GHG emissions level for year 2020 consistent with the determined 1990 baseline (427 million metric tons (MMT) CO_{2e}).

CARB’s Climate Change Scoping Plan. One specific requirement of AB 32 is for CARB to prepare a “scoping plan” for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code, Section 38561(a)), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The Climate Change Scoping Plan: A Framework for Change (Scoping Plan) included a mix of recommended

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strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the state's long-range climate objectives. The key elements of the Scoping Plan include the following (CARB 2008):

1. Expanding and strengthening existing energy efficiency programs as well as building and appliance standards
2. Achieving a statewide renewable energy mix of 33%
3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions
4. Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets
5. Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS 17 Cal. Code Regs., Section 95480 et seq.)
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a reduction goal for municipal operations and for community emissions to reduce GHGs by approximately 15% from then levels (2008) by 2020. Many local governments developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The First Update to the Climate Change Scoping Plan: Building on the Framework (First Update) defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EOs S-3-05 and B-16-2012. The First Update concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050 including: energy demand reduction through efficiency and activity changes; large-scale

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electrification of on-road vehicles, buildings and industrial machinery; decarbonizing electricity and fuel supplies; and, the rapid market penetration of efficient and clean energy technologies. As part of the First Update, CARB recalculated the state's 1990 emissions level, using more recent global warming potentials identified by the Intergovernmental Panel on Climate Change, from 427 MMT CO_{2e} to 431 MMT CO_{2e}.

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. The Governor called on California to pursue a new and ambitious set of strategies, in line with the five climate change pillars from his inaugural address, to reduce GHG emissions and prepare for the unavoidable impacts of climate change. In the summer of 2016, the Legislature affirmed the importance of addressing climate change through passage of SB 32 (Pavley, Chapter 249, Statutes of 2016).

In January 2017, CARB released the 2017 Climate Change Scoping Plan Update (2030 Scoping Plan) for public review and comment (CARB 2017). The 2030 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target and define the state's climate change priorities to 2030 and beyond. The strategies' "known commitments" include implementing renewable energy and energy efficiency (including the mandates of SB 350), increased stringency of the Low Carbon Fuel Standard, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and increased stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, it recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%.

For local governments, the 2030 Scoping Plan replaced the initial Scoping Plan's 15% reduction goal with a recommendation to aim for a community-wide goal of no more than 6 MT CO_{2e} per capita by 2030 and no more than 2 MT CO_{2e} per capita by 2050, which are consistent with the state's long-term goals. These goals are also consistent with the Under 2 MOU (Under 2 2016) and the Paris Agreement (UNFCCC 2016), which are developed around the scientifically based levels necessary to limit global warming below 2 degrees Celsius. The 2030 Scoping Plan recognized the benefits of local government GHG planning (e.g., through Climate Action Plans (CAPs)) and provide more information regarding tools CARB is working on to support those efforts. It also recognizes the CEQA streamlining provisions for project-level review where there

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is a legally adequate CAP.¹³ The Second Update was approved by CARB's Governing Board on December 14, 2017.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32, SB 32, and the executive orders, and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and executive orders if it meets the general policies in reducing GHG emissions in order to facilitate the achievement of the state's goals and does not impede attainment of those goals. As discussed in several cases, a given project need not be in perfect conformity with each and every planning policy or goals to be consistent. A project would be consistent, if it will further the objectives and not obstruct their attainment.

CARB's Regulations for the Mandatory Reporting of Greenhouse Gas Emissions. CARB's Regulation for the Mandatory Reporting of Greenhouse Gas Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of Greenhouse Gases (Title 40, Code of Federal Regulations (CFR), Part 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the Federal Register on October 30, 2009, July 12, 2010, September 22, 2010, October 28, 2010, November 30, 2010, December 17, 2010, and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO₂e per year are required to report annual GHGs through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO₂e per year threshold are required to have their GHG emission report verified by a CARB-accredited third-party verified.

EO B-18-12. EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also established goals for existing state buildings for reducing grid-based energy purchases and water use.

EO B-30-15. EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. To facilitate achieving this goal, EO B-30-15 called for

¹³ *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490; *San Francisco Tomorrow et al. v. City and County of San Francisco* (2015) 229 Cal.App.4th 498; *San Franciscans Upholding the Downtown Specific Plan v. City & County of San Francisco* (2002) 102 Cal.App.4th 656; *Sequoiah Hills Homeowners Assn. V. City of Oakland* (1993) 23 Cal.App.4th 704, 719.

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CARB to update the Scoping Plan to express the 2030 target in terms of MMT CO_{2e}. The executive order also called for state agencies to continue to develop and implement GHG emission reduction programs in support of the reduction targets.

SB 605 and SB 1383. SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the state; and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (SLCPs) (40% below 2013 levels by 2030 for methane and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its Short-Lived Climate Pollutant Reduction Strategy (SLCP Reduction Strategy) in March 2017. The SLCP Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases.

EO B-55-18. EO B-55-18 (September 2018) establishes a new statewide goal “to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter.” This executive order directs CARB to “work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.”

Building Energy

Title 24, Part 6. Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California’s building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and the California Energy Commission (CEC) (and revised if necessary) (California Public Resources Code, Section 25402(b)(1)). The regulations receive input from members of industry, as well as the public, with the goal of “reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy” (California Public Resources Code, Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code, Section 25402(d)) and cost effectiveness (California Public Resources Code, Sections 25402(b)(2) and (b)(3)). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The current Title 24 standards are the 2016 Title 24 building energy efficiency standards, which became effective January 1, 2017. The updated standards will further reduce energy used and associated GHG emissions compared to previous standards, such as the 2013 Title 24 standards. In general, single-family homes built to the 2016 standards are anticipated to use about 28% less

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energy for lighting, heating, cooling, ventilation, and water heating than those built to the 2013 standards, and nonresidential buildings built to the 2016 standards will use an estimated 5% less energy than those built to the 2013 standards (CEC 2015a, 2015b).

The 2019 Title 24 standards would become effective on January 1, 2020. In general, single-family homes built with the 2019 standards are anticipated to use about 7% less energy due to energy efficiency measures than those built to the 2016 standards. Those built with rooftop solar electricity generation, homes built under the 2019 standards are anticipated to use about 53% less energy than those built to the 2016 standards. Nonresidential buildings are anticipated to use about 30% less energy than those built to the 2016 standards due mainly to lighting upgrades (CEC 2018).

Title 24, Part 11. In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as California Green Building Standards (CALGreen), and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The CALGreen 2016 standards became effective January 1, 2017. The CALGreen 2019 standards will continue to improve upon the 2016 CALGreen standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The CALGreen 2019 standards will go into effect on January 1, 2020.

The mandatory standards require the following (24 CCR Part 11):

- Mandatory reduction in indoor water use through compliance with specified flow rates for plumbing fixtures and fittings
- Mandatory reduction in outdoor water use through compliance with a local water efficient landscaping ordinance or the California Department of Water Resources' Model Water Efficient Landscape Ordinance
- 65% of construction and demolition waste must be diverted from landfills
- Mandatory inspections of energy systems to ensure optimal working efficiency
- Inclusion of electric vehicle charging stations or designated spaces capable of supporting future charging stations
- Low-pollutant emitting exterior and interior finish materials, such as paints, carpets, vinyl flooring, and particle board

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The CALGreen standards also include voluntary efficiency measures that are provided at two separate tiers and implemented at the discretion of local agencies and applicants. CALGreen's Tier 1 standards call for a 15% improvement in energy requirements; stricter water conservation, 65% diversion of construction and demolition waste, 10% recycled content in building materials, 20% permeable paving, 20% cement reduction, and cool/solar-reflective roofs. CALGreen's more rigorous Tier 2 standards call for a 30% improvement in energy requirements, stricter water conservation, 80% diversion of construction and demolition waste, 15% recycled content in building materials, 30% permeable paving, 25% cement reduction, and cool/solar-reflective roofs.

Title 20. Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include: refrigerators, refrigerator-freezers and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

SB 1. SB 1 (Murray) (August 2006) established a \$3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 MW through 2016. SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for both homes and businesses within 10 years of adoption, and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

California AB 1470 (Solar Water Heating). This bill established the Solar Water Heating and Efficiency Act of 2007. The bill makes findings and declarations of the Legislature relating to the promotion of solar water heating systems and other technologies that reduce natural gas demand. The bill defines several terms for purposes of the act. The bill requires the commission to evaluate

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the data available from a specified pilot program, and, if it makes a specified determination, to design and implement a program of incentives for the installation of 200,000 solar water heating systems in homes and businesses throughout the state by 2017.

Renewable Energy and Energy Procurement

SB 1078. SB 1078 (Sher) (September 2002) established the Renewable Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and S-21-09).

SB 1368. SB 1368 (September 2006), required the CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities. These standards must be consistent with the standards adopted by the CPUC.

AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general-purpose lighting, to reduce electricity consumption 50% for indoor residential lighting and 25% for indoor commercial lighting.

EO S-14-08. EO S-14-08 (November 2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This executive order required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the executive order directed state agencies to take appropriate actions to facilitate reaching this target. The California Natural Resources Agency (CNRA), through collaboration with the CEC and California Department of Fish and Wildlife, was directed to lead this effort.

EO S-21-09 and SB X1-2. EO S-21-09 (September 2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with the CPUC and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health and can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard. However, this regulation was not finalized because of subsequent legislation (SB X1-2, Simitian, statutes of 2011) signed by Governor Brown in April 2011.

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SB X1-2 expanded the Renewables Portfolio Standard by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 MW or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB X1-2 applies to all electricity retailers in the state including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities must meet the renewable energy goals listed above.

SB 350. SB 350 (October 2015) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires the CPUC, in consultation with the CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal.

SB 100. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

Mobile Sources

AB 1493. AB 1493 (Pavley) (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO₂ emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. When fully phased in, the near-term (2009–2012) standards will result in a reduction of about 22% in GHG emissions compared to the emissions from the 2002 fleet, while the mid-term (2013–2016) standards will result in a reduction of about 30%.

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Heavy Duty Diesel. CARB adopted the final Heavy Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014 to reduce PM and NO_x emissions from heavy-duty diesel vehicles. The rule requires PM filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

EO S-1-07. EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining low-carbon fuel standard for GHG emissions measured in CO_{2e} grams per unit of fuel energy sold in California. The target of the low-carbon fuel standard is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel, including extraction/feedstock production, processing, transportation, and final consumption, per unit of energy delivered.

SB 375. SB 375 (2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 required CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035. Regional metropolitan planning organizations are then responsible for preparing a Sustainable Communities Strategy within their Regional Transportation Plan. The goal of the Sustainable Communities Strategy is to establish a forecasted development pattern for the region that, after considering transportation measures and policies, will achieve, if feasible, the GHG reduction targets. If a Sustainable Communities Strategy is unable to achieve the GHG reduction target, a metropolitan planning organization must prepare an Alternative Planning Strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to Government Code Section 65080(b)(2)(K), a sustainable communities strategy does not: (i) regulate the use of land; (ii) supersede the land use authority of cities and counties; or (iii) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

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In 2010, CARB adopted the SB 375 targets for the regional metropolitan planning organizations. The targets for SANDAG are a 7% reduction in emissions per capita by 2020 and a 13% reduction by 2035.

SANDAG completed and adopted its 2050 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) in October 2011 (SANDAG 2011). In November 2011, CARB, by resolution, accepted SANDAG's GHG emissions quantification analysis and determination that, if implemented, the SCS would achieve CARB's 2020 and 2035 GHG emissions reduction targets for the region.

After SANDAG's 2050 RTP/SCS was adopted, a lawsuit was filed by the Cleveland National Forest Foundation and others. In July 2017, the California Supreme Court held that SANDAG's environmental impact report (EIR) did not have to use EO S-3-05's 2050 goal of an 80% reduction in GHG emissions from 1990 levels as a threshold because the EIR sufficiently informed the public of the potential impacts.

Although the EIR for SANDAG's 2050 RTP/SCS was pending before the California Supreme Court, in 2015, SANDAG adopted the next iteration of its RTP/SCS in accordance with statutorily mandated timelines, and no subsequent litigation challenge was filed. More specifically, in October 2015, SANDAG adopted San Diego Forward: The Regional Plan. Like the 2050 RTP/SCS, this planning document meets CARB's 2020 and 2035 reduction targets for the region (SANDAG 2015). In December 2015, CARB, by resolution, accepted SANDAG's GHG emissions quantification analysis and determination that, if implemented, the SCS would achieve CARB's 2020 and 2035 GHG emissions reduction targets for the region.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program. The Advanced Clean Cars program (January 2012) is a new emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars (CARB 2012). To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold today. To reduce GHG emissions, CARB, in conjunction with the EPA and the NHTSA, adopted new GHG standards for model year 2017 to 2025 vehicles; the new standards are estimated to reduce GHG emissions by 34% in 2025. The zero-emissions-vehicle program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of zero-emissions vehicles and plug-in hybrid electric vehicles in the 2018 to 2025 model years.

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EO B-16-12. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emissions vehicles. It ordered CARB, CEC, CPUC, and other relevant agencies to work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare.

AB 1236. AB 1236 (October 2015) (Chiu) required a city, county, or city and county to approve an application for the installation of electric vehicle charging stations, as defined, through the issuance of specified permits unless the city or county makes specified written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact. The bill provided for appeal of that decision to the planning commission, as specified. The bill provided that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is a matter of statewide concern. The bill required electric vehicle charging stations to meet specified standards. The bill required a city, county, or city and county with a population of 200,000 or more residents to adopt an ordinance, by September 30, 2016, that created an expedited and streamlined permitting process for electric vehicle charging stations, as specified. The bill also required a city, county, or city and county with a population of less than 200,000 residents to adopt this ordinance by September 30, 2017.

Water

EO B-29-15. In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the executive order extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The executive order includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

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Solid Waste

AB 939 and AB 341. In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code, Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (Chapter 476, Statutes of 2011 (Chesbro)) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal. CalRecycle conducted several general stakeholder workshops and several focused workshops and in August 2015 published a discussion document titled AB 341 Report to the Legislature, which identifies five priority strategies that CalRecycle believes would assist the state in reaching the 75% goal by 2020, legislative and regulatory recommendations and an evaluation of program effectiveness (CalRecycle 2012).

Other State Actions

SB 97. SB 97 (Dutton) (August 2007) directed the Governor's Office of Planning and Research to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, the Governor's Office of Planning and Research issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities (OPR 2008). The advisory further recommended that the lead agency determine significance of the impacts and impose all mitigation measures necessary to reduce GHG emissions to a level that is less than significant. The CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4(a)). The Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or

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mitigation of GHG emissions (14 CCR 15064.4(b)). The Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. The CNRA also acknowledges that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009).

With respect to GHG emissions, the CEQA Guidelines state in Section 15064.4(a) that lead agencies should “make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate” GHG emissions. The CEQA Guidelines note that an agency may identify emissions by either selecting a “model or methodology” to quantify the emissions or by relying on “qualitative analysis or other performance based standards” (14 CCR 15064.4(a)). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)).

EO S-13-08. EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the executive order directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009 (CNRA 2009), and an update, *Safeguarding California: Reducing Climate Risk*, followed in July 2014 (CNRA 2014). To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: Agriculture, Biodiversity and Habitat, Emergency Management, Energy, Forestry, Ocean and Coastal Ecosystems and Resources, Public Health, Transportation, and Water. Issuance of the *Safeguarding California: Implementation Action Plans* followed in March 2016 (CNRA 2016). In January 2018, the CNRA released the *Safeguarding California Plan: 2018 Update*, which communicates current and needed actions that state government should take to build climate change resiliency (CNRA 2018).

2015 State of the State Address. In January 2015, Governor Brown in his inaugural address and annual report to the Legislature established supplementary goals, which would further reduce GHG emissions over the next 15 years. These goals include an increase in California's renewable energy portfolio from 33% to 50%, a reduction in vehicle petroleum use for cars

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and trucks by up to 50%, measures to double the efficiency of existing buildings, and decreasing emissions associated with heating fuels.

2016 State of the State Address. In his January 2016 address, Governor Brown established a statewide goal to bring per capita GHG emission down to two tons per person, which reflects the goal of the Global Climate Leadership Memorandum of Understanding (Under 2 MOU) to limit global warming to less than 2°C by 2050. The Under 2 MOU agreement pursues emission reductions of 80% to 95% below 1990 levels by 2050 and/or reaching a per capita annual emissions goal of less than 2 metric tons by 2050. A total of 135 jurisdictions representing 32 countries and 6 continents, including California, have signed or endorsed the Under 2 MOU (Under 2 2016).

3.2.3 Local Regulations

Local regulations are applicable to the Boulder Brush Facilities located on private lands subject to County jurisdiction. Local regulations are not applicable to the Reservation or Campo Wind Facilities.

San Diego Air Pollution Control District

SDAPCD does not have established GHG rules, regulations, or policies.

County of San Diego

Climate Action Plan

The County has developed a Climate Action Plan (CAP) that is a comprehensive strategy to reduce GHG emissions in the unincorporated communities of San Diego County. A draft CAP was released on August 10, 2017, for public review. The plan includes six chapters (1) Introduction; (2) Greenhouse Gas Emissions Inventory, Projections, and Reductions Targets; (3) Greenhouse Gas Reduction Strategies and Measures; (4) Climate Change Vulnerability, Resiliency, and Adaptation; (5) Implementation and Monitoring; and (6) Public Outreach and Engagement. Concurrent with the release of the Draft CAP, the County published implementation tools for the County to use when conducting CEQA analysis. This includes a general plan land use conformity determination and CAP consistency review checklist. As the CAP is in draft form it is not considered a qualified CAP for CEQA analysis (see CEQA Guidelines Section 15183.5). In January 2018, Planning Commission recommended adoption of the final CAP to the County Board of Supervisors. On February 14, 2018, the County Board of Supervisors adopted the CAP that was prepared following CEQA Guidelines, Section 15183.5. In December 2018, a court set aside the CAP and its supporting EIR. The court order allows the County to continue processing projects that do not require carbon offsets to mitigate impacts from GHG emissions.

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Although the CAP must be set aside, the court opinion did not address the majority of CAP measures, and the County finds those measures would reduce GHG emissions. For example, Measure E-2.1, Increase Renewable Energy, specifies a goal to achieve 90% renewable electricity for the unincorporated County by 2030. This measure is consistent with General Plan Strategy A-3, listed below.

General Plan

The County's General Plan (County of San Diego 2011) includes smart growth and land use planning principles designed to reduce vehicle miles traveled and result in a reduction in GHG emissions. As discussed in the General Plan, climate change and GHG reduction policies are addressed in plans and programs in multiple elements of the General Plan.

The strategies for reduction of GHG emissions in the General Plan are as follows (County of San Diego 2011, with subsequent updates):

- Strategy A-1:** Reduce vehicle trips generated, gasoline/energy consumption, and GHG emissions.
- Strategy A-2:** Reduce non-renewable electrical and natural gas energy consumption and generation (energy efficiency).
- Strategy A-3:** Increase generation and use of renewable energy sources.
- Strategy A-4:** Reduce water consumption.
- Strategy A-5:** Reduce and maximize reuse of solid wastes.
- Strategy A-6:** Promote carbon dioxide consuming landscapes.
- Strategy A-7:** Maximize preservation of open spaces, natural areas, and agricultural lands.

The General Plan also includes climate adaptation strategies to deal with potential adverse effects of climate change. The climate adaptation strategies include the following (County of San Diego 2011):

- Strategy B-1:** Reduce risk from wildfire, flooding, and other hazards resulting from climate change.
- Strategy B-2:** Conserve and improve water supply due to shortages from climate change.

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Strategy B-3: Promote agricultural lands for local food production.

Strategy B-4: Provide education and leadership.

The County has also implemented a number of outreach programs such as the Green Building Program, lawn mower trade-in program, and reduction of solid waste by recycling to reduce air quality impacts as well as GHG emissions.

The County General Plan's Conservation and Open Space Element includes goals and policies that are designed to reduce the emissions of criteria air pollutants, emissions of GHGs, and energy use in buildings and infrastructure, while promoting the use of renewable energy sources, conservation, and other methods of efficiency, as follows (County of San Diego 2011, and subsequent updates):

Goal COS-14 Sustainable Land Development. Land use development techniques and patterns that reduce emissions of criteria pollutants and GHGs through minimized transportation and energy demands, while protecting public health and contributing to a more sustainable environment.

Policy COS-14.1 Land Use Development Form. Require that development be located and designed to reduce vehicular trips (and associated air pollution) by utilizing compact regional and community-level development patterns while maintaining community character.

Policy COS-14.2 Villages and Rural Villages. Incorporate a mixture of uses within Villages and Rural Villages that encourage people to walk, bicycle, or use public transit to reduce air pollution and GHG emissions.

Policy COS-14.3 Sustainable Development. Require design of residential subdivisions and non-residential development through "green" and sustainable land development practices to conserve energy, water, open space, and natural resources.

Policy COS-14.4 Sustainable Technology and Projects. Require technologies and projects that contribute to the conservation of resources in a sustainable manner, that are compatible with community character, and that increase the self-sufficiency of individual communities, residents, and businesses.

Policy COS-14.5 Building Siting and Orientation in Subdivisions. Require that buildings be located and oriented in new subdivisions and multi-structure non-residential projects to maximize passive solar heating during cool seasons,

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minimize heat gains during hot periods, enhance natural ventilation, and promote the effective use of daylight.

Policy COS-14.6 Solar Access for Infill Development. Require that property setbacks and building massing of new construction located within existing developed areas maintain an envelope that maximizes solar access to the extent feasible.

Policy COS-14.7 Alternative Energy Sources for Development Projects. Encourage development projects that use energy recovery, photovoltaic, and wind energy.

Policy COS-14.8 Minimize Air Pollution. Minimize land use conflicts that expose people to significant amounts of air pollutants.

Policy COS-14.9 Significant Producers of Air Pollutants. Require projects that generate potentially significant levels of air pollutants and/or GHGs such as quarries, landfill operations, or large land development projects to incorporate renewable energy, and the best available control technologies and practices into the project design.

Policy COS-14.10 Low-Emission Construction Vehicles and Equipment. Require County contractors and encourage other developers to use low-emission construction vehicles and equipment to improve air quality and reduce GHG emissions.

Policy COS-14.11 Native Vegetation. Require development to minimize the vegetation management of native vegetation while ensuring sufficient clearing is provided for fire control.

Policy COS-14.12 Heat Island Effect. Require that development be located and designed to minimize the “heat island” effect as appropriate to the location and density of development, incorporating such elements as cool roofs, cool pavements, and strategically placed shade trees.

Policy COS-14.13 Incentives for Sustainable and Low GHG Development. Provide incentives such as expedited project review and entitlement processing for developers that maximize use of sustainable and low GHG land development practices in exceedance of State and local standards.

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- Goal COS-15 Sustainable Architecture and Buildings.** Building design and construction techniques that reduce emissions of criteria pollutants and GHGs, while protecting public health and contributing to a more sustainable environment.
- Policy COS-15.1 Design and Construction of New Buildings.** Require that new buildings be designed and constructed in accordance with “green building” programs that incorporate techniques and materials that maximize energy efficiency, incorporate the use of sustainable resources and recycled materials, and reduce emissions of GHGs and toxic air contaminants.
- Policy COS-15.2 Upgrade of Existing Buildings.** Promote and, as appropriate, develop standards for the retrofit of existing buildings to incorporate design elements, heating and cooling, water, energy, and other elements that improve their environmental sustainability and reduce GHG.
- Policy COS-15.3 Green Building Programs.** Require all new County facilities and the renovation and expansion of existing County buildings to meet identified “green building” programs that demonstrate energy efficiency, energy conservation, and renewable technologies.
- Policy COS-15.4 Title 24 Energy Standards.** Require development to minimize energy impacts from new buildings in accordance with or exceeding Title 24 energy standards.
- Policy COS-15.5 Energy Efficiency Audits.** Encourage energy conservation and efficiency in existing development through energy efficiency audits and adoption of energy saving measures resulting from the audits.
- Policy COS-15.6 Design and Construction Methods.** Require development design and construction methods to minimize impacts to air quality.
- Goal COS-16 Sustainable Mobility.** Transportation and mobility systems that contribute to environmental and human sustainability and minimize GHG and other air pollutant emissions.
- Policy COS-16.1 Alternative Transportation Modes.** Work with SANDAG and local transportation agencies to expand opportunities for transit use. Support the development of alternative transportation modes, as provided by Mobility Element policies.

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Policy COS-16.2 Single-Occupancy Vehicles. Support transportation management programs that reduce the use of single-occupancy vehicles.

Policy COS-16.3 Low-Emissions Vehicles and Equipment. Require County operations and encourage private development to provide incentives (such as priority parking) for the use of low- and zero-emission vehicles and equipment to improve air quality and reduce GHG emissions.

Policy COS-16.4 Alternative Fuel Sources. Explore the potential of developing alternative fuel stations at maintenance yards and other County facilities for the municipal fleet and general public.

Policy COS-16.5 Transit-Center Development. Encourage compact development patterns along major transit routes.

Goal COS-17 Sustainable Solid Waste Management. Perform solid waste management in a manner that protects natural resources from pollutants while providing sufficient, long term capacity through vigorous reduction, reuse, recycling, and composting programs.

Policy COS-17.1 Reduction of Solid Waste Materials. Reduce GHG emissions and future landfill capacity needs through reduction, reuse, or recycling of all types of solid waste that is generated. Divert solid waste from landfills in compliance with State law.

Policy COS-17.2 Construction and Demolition Waste. Require recycling, reduction and reuse of construction and demolition debris.

Policy COS-17.3 Landfill Waste Management. Require landfills to use waste management and disposal techniques and practices to meet all applicable environmental standards.

Policy COS-17.4 Composting. Encourage composting throughout the County and minimize the amount of organic materials disposed at landfills.

Policy COS-17.5 Methane Recapture. Promote efficient methods for methane recapture in landfills and the use of composting facilities and anaerobic digesters and other sustainable strategies to reduce the release of GHG emissions from waste disposal or management sites and to generate additional energy such as electricity.

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- Policy COS-17.6 Recycling Containers.** Require that all new land development projects include space for recycling containers.
- Policy COS-17.7 Material Recovery Program.** Improve the County's rate of recycling by expanding solid waste recycling programs for residential and non-residential uses.
- Policy COS-17.8 Education.** Continue programs to educate industry and the public regarding the need and methods for waste reduction, recycling, and reuse.
- Goal COS-18 Sustainable Energy.** Energy systems that reduce consumption of non-renewable resources and reduce GHG and other air pollutant emissions while minimizing impacts to natural resources and communities.
- Policy COS-18.1 Alternate Energy Systems Design.** Work with San Diego Gas and Electric (SDG&E) and non-utility developers to facilitate the development of alternative energy systems that are located and designed to maintain the character of their setting.
- Policy COS-18.2 Energy Generation from Waste.** Encourage use of methane sequestration and other sustainable strategies to produce energy and/or reduce GHG emissions from waste disposal or management sites.
- Policy COS-18.3 Alternate Energy Systems Impacts.** Require alternative energy system operators to properly design and maintain these systems to minimize adverse impacts to the environment.
- Goal COS-19 Sustainable Water Supply.** Conservation of limited water supply supporting all uses including urban, rural, commercial, industrial, and agricultural uses.
- Policy COS-19.1 Sustainable Development Practices.** Require land development, building design, landscaping, and operational practices that minimize water consumption.
- Policy COS-19.2 Recycled Water in New Development.** Require the use of recycled water in development wherever feasible. Restrict the use of recycled water when it increases salt loading in reservoirs.

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Goal COS-20 Governance and Administration. Reduction of community-wide (i.e., unincorporated County) and County Operations greenhouse gas emissions contributing to climate change that meet or exceed requirements of the Global Warming Solutions Act of 2006, as amended by Senate Bill 32 (as amended, Pavley. California Global Warming Solutions Act of 2006: emissions limit).

Policy COS-20.1 Climate Change Action Plan. Prepare, maintain, and implement a Climate Action Plan for the reduction of community-wide (i.e., unincorporated County) and County Operations greenhouse gas emissions consistent with the California Environmental Quality Act (CEQA) Guidelines Section 15183.5.

Policy COS-20.2 GHG Monitoring and Implementation. Establish and maintain a program to monitor GHG emissions attributable to development, transportation, infrastructure, and municipal operations and periodically review the effectiveness of and revise existing programs as necessary to achieve GHG emission reduction objectives.

Policy COS-20.3 Regional Collaboration. Coordinate air quality planning efforts with federal and State agencies, SANDAG, and other jurisdictions.

Policy COS-20.4 Public Education. Continue to provide materials and programs that educate and provide technical assistance to the public, development professionals, schools, and other parties regarding the importance and approaches for sustainable development and reduction of GHG emissions.

Strategic Plan to Reduce Waste

The County of San Diego Strategic Plan to Reduce Waste outlines near, mid-, and long-term programs and policies to increase the County's solid waste diversion rate to meet state targets and support other County initiatives, such as the CAP. In April 2017, the County adopted a diversion goal of 75% by 2025 (County of San Diego 2017a).

Renewable Energy Plan

The County's Comprehensive Renewable Energy Plan researches and develops renewable energy options in the County. The planning effort covers the residential, commercial, and industrial sectors of the County, with a particular focus on unincorporated areas, and presents a comprehensive approach to renewable energy and energy efficiency (County of San Diego 2017c).

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3.3 Greenhouse Gas Inventories and Climate Change Conditions

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).

According to California's 2000–2017 GHG emissions inventory (2018 edition), California emitted 429.4 MMT CO₂e in 2016, including emissions resulting from out-of-state electrical generation (CARB 2018). The sources of GHG emissions in California include transportation, industrial uses, electric power production from both in-state and out-of-state sources, commercial and residential uses, agriculture, high global-warming potential substances, and recycling and waste. The California GHG emission source categories (as defined in CARB's 2008 Scoping Plan) and their relative contributions in 2016 are presented in Table 21.

Table 21
Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO ₂ e)	Percent of Total ^a
Transportation	169.38	41%
Industrial	89.61	23%
Electric power ^b	68.58	16%
Commercial and residential	39.36	12%
Agriculture	33.84	8%
High global-warming potential substances	19.78	4%
Recycling and waste	8.81	2%
Total	429.4	100%

Source: CARB 2018a.

Notes: GHG = greenhouse gas; MMT CO₂e = million metric tons of carbon dioxide equivalent.

Emissions reflect the 2016 California GHG inventory.

^a Percentage of total has been rounded, and total may not sum due to rounding.

^b Includes emissions associated with imported electricity, which account for 26.28 MMT CO₂e annually.

During the 2000 to 2016 period, per capita GHG emissions in California have continued to drop from a peak in 2001 of 14.0 MT per person to 10.8 MT per person in 2016, representing a 23% decrease. In addition, total GHG emissions in 2016 were approximately 12 MMT CO₂e less than 2015 emissions. The declining trend in GHG emissions, coupled with programs that will continue

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to provide additional GHG reductions going forward, demonstrates that California is just below the 2020 target of 431 MMT CO₂e (CARB 2018a).

According to the GHG inventory data compiled by the Energy Policy Initiative Center (EPIC), in 2010, the County emitted 35 MMT CO₂e (EPIC 2013). As outlined in Table 22, San Diego County Greenhouse Gas Emissions by Sectors, on-road transportation created 42% of these emissions. Similar to emissions trends statewide, electricity generation is the second biggest emitter.

Table 22
San Diego County Greenhouse Gas Emissions by Sectors

Source Category	Annual GHG Emissions (MMT CO ₂ e)	Percent of Total*
On-road transportation	14	42%
Electricity generation	8	24%
Natural gas end uses	3	8%
Off-road equipment and vehicles	1	4%
Civil aviation	2	5%
Industrial processes and products	2	5%
Waste	<1	2%
Waterborne navigation	<1	<1%
Rail	<1	<1%
Other fuels	2	5%
Agriculture (livestock)	<1	<1%
Wildfires	<1	<1%
Development (loss of vegetation)	<1	<1%
Sequestration from land cover	<1	2%
Total	35	100%

Source: EPIC 2013.

Notes: GHG = greenhouse gas; MMT CO₂e = million metric tons of carbon dioxide equivalent per year.

* Column may not add due to rounding.

3.4 Threshold Criteria and Methodology

3.4.1 Thresholds

The significance criteria used to evaluate the Project's GHG emissions impacts are based on the recommendations provided in Appendix G of the CEQA Guidelines, which allow both quantitative approaches and analysis of consistency with applicable plans, policies, or regulations adopted for the purpose of reducing GHG emissions.

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The Project's potential impacts on GHG's will be assessed using the GHG thresholds set forth in Appendix G of the CEQA Guidelines:

1. Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

The Appendix G thresholds for GHGs do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (14 CCR 15000 et seq.). Additional guidance regarding assessment of GHGs is discussed below.

CEQA Guidelines

With respect to GHG emissions, the CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or other performance based standards." (14 CCR 15064.4(b)). A lead agency may use a "model or methodology" to estimate GHG emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change." (14 CCR 15064.4(c)). Section 15064.4(b) provides that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment:

1. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)).

In addition, Section 15064.7(c) of the CEQA Guidelines specifies that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted

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or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence” (14 CCR 15064.7(c)).

OPR Guidance

The OPR’s Technical Advisory titled *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review* states that “public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact” (OPR 2008). Furthermore, the advisory document indicates that “in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a ‘significant impact,’ individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice” (OPR 2008).

Cumulative Nature of Climate Change

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project in the South Coast Air Basin, such as the project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project’s contribution to global climate change.

While the project would result in emissions of GHGs during construction, decommissioning, and operation, no guidance exists to indicate what level of GHG emissions would be considered substantial enough to result in a significant adverse impact on global climate. However, it is generally believed that an individual project is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory as scientific uncertainty regarding the significance a project’s individual and cumulative effects on global climate change remains.

Thus, GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective (CAPCOA 2008). This approach is consistent with that recommended by the CNRA, which noted in its Public Notice for the proposed CEQA amendments (pursuant to SB 97) that the evidence before it indicates that in most cases, the impact of GHG emissions should be considered in the context of a cumulative impact, rather than a project-level impact (CNRA 2009). Similarly, the Final Statement of Reasons for Regulatory Action on the CEQA Amendments confirm that an EIR or other environmental document must analyze the

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incremental contribution of a project to GHG levels and determine whether those emissions are cumulatively considerable (CNRA 2009). Accordingly, further discussion of the project's GHG emissions and their impact on global climate are addressed in Section 4.

In regards to evaluating the project's significance with respect to CEQA Guidelines number 1, the project GHG emissions will be compared to its production of carbon-free electricity. In addition to the Project's potential impacts on GHGs using the GHG thresholds set forth in Appendix G, the analysis will evaluate the project using the County's CAP Consistency Checklist.¹⁴ A project's consistency with the CAP is evaluated in a two-step process. Step 1 in the CAP Checklist assesses a project's consistency with the growth projections and land use assumptions made in the CAP. If a project is consistent with the projections in the CAP, its associated growth in terms of GHG emissions was accounted for in the CAP's projections and would not increase emissions beyond what is anticipated in the CAP or inhibit the County from reaching its reduction targets. If a project is consistent with the existing General Plan land use designation(s), it can be determined to be consistent with the CAP projections and can move forward to Step 2 of the Checklist. Step 2 of the CAP Checklist identifies CAP GHG reduction measures that would apply to discretionary projects and establishes clear questions that can be used to assess a project's consistency with CAP measures. The specific applicable requirements outlined in the CAP Checklist shall be required as a condition of project approval. The project must provide substantial evidence that demonstrates how the Project would implement each applicable CAP Checklist requirement described in Appendix C of the County's CAP to the satisfaction of the Director of Planning and Development Services (see Appendix C of this report).

To address the CEQA Guidelines question number 2, whether the project is consistent with plans, policies, and regulations adopted for the purpose of reducing the emissions of GHGs, the project will be evaluated against the County's CAP, AB 32, SANDAG's RTP/SCS, and EO B-55-18.

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.

¹⁴ The CAP is the subject of current litigation.

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Decommissioning

CalEEMod Version 2016.3.2 was used to estimate potential Project-generated GHG emissions during decommissioning. Decommissioning of the Project would result in GHG emissions, primarily associated with use of off-road construction equipment, truck trips, and worker vehicles. All details for decommissioning criteria air pollutants discussed in Section 2.4.2.1, are also applicable for the estimation of decommissioning-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of decommissioning 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, Operational Emissions, 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, one of the main sources of GHG emissions would be fugitive emissions from equipment containing SF₆ gas installed at the collector substation, switchyard, and high-voltage substation. SF₆ has a GWP of 23,900 using CO₂ at a reference value of 1 (IPCC 2007). The Project collector substation, switchyard, and high-voltage substation would include three 500 kV breakers that would contain SF₆ gas. It is estimated that the Project would maintain 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' 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 Analysis of Project Impacts and Determination as to Significance

3.5.1 Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

County of San Diego Climate Action Plan Consistency Checklist

Step 1 – Land Use Consistency

Although the County as Lead Agency is analyzing the Project as a whole, the County's land use jurisdiction is limited to the Boulder Brush Facilities. The Bureau of Indian Affairs has jurisdiction over the Campo Wind Facilities, and has prepared an EIS to evaluate Project effects under NEPA (BIA 2019).

In the County's General Plan, the land use designation for the Boulder Brush Boundary is Rural Lands 80 (RL-80). The Boulder Brush Boundary is zoned General Rural (S92) by the County of San Diego Zoning Map (County of San Diego 2017c). Minor and major impact utilities may be allowed with approval of a Major Use Permit. Major impact services and utilities (e.g., wind energy facilities) and minor impact utilities (e.g., electrical distribution substations) are defined under Sections 1350 and 1355 of the County Zoning Ordinance. The Boulder Brush Facilities require approval of a Major Use Permit from the County, but would not require a change in land use designation or zoning. The County's General Plan and zoning do not cover land within the Reservation Boundary.

The Project would not result in residential, commercial, or growth-inducing development; rather, the Project would construct and operate a renewable energy generation Project. Implementation of the Project would not result in development in excess of that anticipated in local plans or increases in population/housing growth beyond those contemplated by SANDAG when preparing its Sustainable Community Strategy to reduce GHG emissions from mobile sources. As such, vehicle trip generation and planned development for the Project is considered to be anticipated in the SIP and RAQS. Therefore, the project would be consistent with the CAP Consistency Checklist Step 1.

Step 2 – Climate Action Plan Consistency Checklist

The County CAP includes Strategy E-2, Increase Renewable Electricity Use, transitioning from fossil fuels to renewable energy for electricity generation, which would reduce emissions and provide a more sustainable source of electricity. The Project would aid the County in achieving Measure E-2.1, Increase Renewable Electricity, with the goal to achieve 90% renewable electricity for the unincorporated County by 2030 to lower GHG emissions by relying on cleaner energy (County of San Diego 2018). As a renewable energy project, the Project is a unique

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development that is not addressed in the County's CAP Consistency Checklist. The Project does not include a residential component, typical commuting workers (such as commuters traveling to an office land use), or agricultural operations, which are addressed in the CAP Consistency Checklist. Implementation of the Project would not interfere with the County's implementation of the Consistency Checklist action items on Projects where they are applicable. Additionally, the Project would further the CAP Measure E-2.1 "Increase Renewable Energy." Further, the CAP was developed to reduce GHG emissions throughout the County over time; therefore, any Project that is contemplated in the CAP and/or would be consistent with the CAP would directly aid in the County's reduction of GHG emissions throughout the County's jurisdictional area.

Each CAP Checklist item and why each specific measure does not apply to the Project is outlined in Table 23.

Table 23
Climate Action Plan Consistency Checklist

CAP Checklist Item	Project Compliance
1a. Reducing Vehicle Miles Traveled: <u>Non-Residential</u> : For non-residential Projects with anticipated tenant occupants of 25 or more, will the Project achieve a 15% reduction in emissions from commute vehicle miles traveled (VMT), and commit to monitoring and reporting results to demonstrate on-going compliance? VMT reduction may be achieved through a combination of Transportation Demand Management (TDM) and parking strategies, as long as the 15% reduction can be substantiated.	Not Applicable. The Project would employ 10 to 12 persons, and thus would not accommodate 25 or more tenant occupants.
2a. Shared and Reduced Parking: <u>Non-Residential</u> : For non-residential Projects with anticipated tenant-occupants of 24 or less, will the Project implement shared and reduced parking strategies that achieves a 10% reduction in emissions from commute VMT? Check "N/A" if the Project is a residential Project or if the Project would accommodate 25 or more tenant-occupants.	Not Applicable. As a renewable energy development Project, the Project is not a typical commercial or retail development that would have tenants. Employee trips would be related only to as-needed operation and maintenance activities associated with operation of the wind facility. Carpooling will be encouraged to the extent practical to reduce VMT during operation and the Project's parking spaces would not exceed County's code requirements.
3a. Electric or Alternately-Fueled Water Heating Systems Residential: For Projects that include residential construction, will the Project, as a condition of approval, install the following types of electric or alternately-fueled water heating system(s)? <input type="checkbox"/> Solar thermal water heater <input type="checkbox"/> Tankless electric water heater <input type="checkbox"/> Storage electric water heaters <input type="checkbox"/> Electric heat pump water heater <input type="checkbox"/> Tankless gas water heater <input type="checkbox"/> Other	Not Applicable. The Project does not include a residential component.

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Table 23
Climate Action Plan Consistency Checklist

CAP Checklist Item	Project Compliance
<p>4a. Water Efficient Appliances and Plumbing Fixtures Residential: For new residential Projects, will the Project comply with all of the following water efficiency and conservation best management practices?</p> <p>1. Kitchen Faucets: The maximum flow rate of kitchen faucets shall not exceed 1.5 gallons per minute at 60 pounds per square inch (psi). Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.5 gallons per minute at 60 psi.</p> <p>2. Energy Efficient Appliances: Install at least one qualified ENERGY STAR dishwasher or clothes washer per unit.</p>	<p>Not Applicable.</p> <p>The Project does not include a residential component.</p>
<p>5a. Rain Barrel Installations: Residential: For new residential Projects, will the Project make use of incentives to install one rain barrel per every 500 square feet of available roof area? Check "N/A" if the Project is a non-residential Project; if State, regional or local incentives/rebates to purchase rain barrels are not available; or if funding for programs/rebates has been exhausted.</p>	<p>Not Applicable.</p> <p>The Project does not include a residential component.</p>
<p>6a. Reduce Outdoor Water: <u>Residential</u>: Will the Project submit a Landscape Document Package that is compliant with the County's Water Conservation in Landscaping Ordinance and demonstrates a 40% reduction in current Maximum Applied Water Allowance (MAWA) for outdoor use?</p> <p><u>Non-Residential</u>: Will the Project submit a Landscape Document Package that is compliant with the County's Water Conservation in Landscaping Ordinance and demonstrates a 40% reduction in current MAWA for outdoor use?</p>	<p>Not Applicable.</p> <p>The Project would not include any landscaping that would necessitate preparation of a landscape plan or Landscape Document Package.</p>
<p>7a. Agricultural and Farming Equipment: Will the Project use the San Diego Air Pollution Control District's (SDAPCD's) farm equipment incentive program to convert gas- and diesel-powered farm equipment to electric equipment? Check "N/A" if the Project does not contain any agricultural or farming operations; if the SDAPCD incentive program is no longer available; or if funding for the incentive program has been exhausted.</p>	<p>Not Applicable.</p> <p>The Project would not include gas or diesel-powered farm equipment and would not contain any agricultural or farming operations.</p>
<p>8a. Electric Irrigation Pumps: Will the Project use SDAPCD's farm equipment incentive program to convert diesel- or gas-powered irrigation pumps to electric irrigation pumps? Check "N/A" if the Project does not contain any agricultural or farming operations; if the SDAPCD incentive program is no longer available; or if funding for the incentive program has been exhausted.</p>	<p>Not Applicable.</p> <p>The Project would not include irrigation pumps and would not contain any agricultural or farming operations.</p>
<p>9a. Tree Planting: Residential: For residential Projects, will the Project plant, at a minimum, two trees per every new residential dwelling unit proposed? Check "N/A" if the Project is a non-residential Project</p>	<p>Not Applicable.</p> <p>The Project does not include a residential component.</p>

Source: County of San Diego 2018 (see Appendix C).

Notes: CAP = Climate Action Plan; SDAPCD = San Diego Air Pollution Control District.

As discussed above, the Project would not require a General Plan Amendment or zone change. Although the CAP Consistency Checklist individual GHG measures would not apply to the Project, the Project would be consistent with the underlying assumptions of the CAP and would

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support goals within the CAP. Therefore, the Project would have a **less-than-significant impact** on GHG emissions.

For informational purposes, the Project GHG emissions are summarized below.

Construction Emissions

Emissions from the construction phase of the Boulder Brush Facilities were estimated using CalEEMod and reported for disclosure purposes. Table 24 presents estimated construction emissions for Boulder Brush Facilities in 2019¹⁵ and 2020 from on-site and off-site emission sources.

Table 24
Estimated Annual Boulder Brush Facilities Construction Greenhouse Gas Emissions

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
	<i>Metric Tons per Year</i>			
2019	755.05	0.11	0.00	777.83
2020	1,254.61	0.12	0.00	1,257.49
Total	2,009.66	0.23	0.00	2,035.32
<i>Amortized Emissions over 30 Years</i>				67.84

Notes: 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.

Numbers may not add exactly due to rounding.

1 Boulder Brush Facilities construction greenhouse gas emissions were proportioned based on 5 miles located within the Reservation and 3.5 miles located within the County.

As shown in Table 24, the estimated total GHG emissions during construction of Boulder Brush Facilities would be approximately 778 MT CO₂e in 2019 and 1,257 MT CO₂e in 2020, for a total of 2,035 MT CO₂e over the construction period. Estimated Boulder Brush Facilities construction emissions amortized over 30 years (SCAQMD 2008) would be approximately 68 MT CO₂e per year. As with Boulder Brush Facilities construction criteria air pollutant emissions, GHG emissions generated during construction of Boulder Brush Facilities would be short-term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Table 25 presents construction emissions for the Project in 2019 and 2020 from on-site and off-site emission sources.

¹⁵ The analysis assumes a construction start date of late 2019. Assuming an earlier 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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As shown in Table 25, the estimated total GHG emissions during construction of the Project would be approximately 2,258 MT CO₂e in 2019 and 4,259 MT CO₂e in 2020, for a total of 6,544 MT CO₂e over the construction period. Estimated Project-generated construction emissions amortized over 30 years (SCAQMD 2008) would be approximately 218 MT CO₂e per year. As with Project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the Project would be short-term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Table 25
Estimated Annual Project Construction Greenhouse Gas Emissions

Phase	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
2019				
Campo Wind Facilities	1,453.59	0.25	0.00	1,480.41
Boulder Brush Facilities	755.05	0.11	0.00	777.83
2019 Total	2,208.64	0.36	0.00	2,258.24
2020				
Campo Wind Facilities	3,017.04	0.44	0.00	3,028.13
Boulder Brush Facilities	1,254.61	0.12	0.00	1,257.49
2020 Total	4,271.65	0.56	0.00	4,258.62
Total	6,480.29	0.92	0.00	6,543.86
Amortized Emissions over 30 Years				218.13

Notes: 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.

- 1 Gen-tie line construction greenhouse gas emissions were proportioned based on 5 miles located within the Reservation Boundary and 3.5 miles located within the Boulder Brush Boundary.
- 2 Blasting emissions were calculated separately and included in the 2019 construction emissions.

As shown in Table 26, 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 26
Vegetation Removal – Estimated Project 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 Facilities</i>				
Forest Land	Scrub	14.3	698.99	9,995.56
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 Facilities Subtotal</i>			745.75	12,557.66

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Table 26
Vegetation Removal – Estimated Project 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>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
<i>Amortized Emissions over 30 Years</i>				452.51

Source: CAPCOA 2017.

Notes: CalEEMod = California Emissions Estimator Model; CO₂ = carbon dioxide; MT CO₂ = metric tons carbon dioxide.

See Appendix A for complete results.

Numbers may not add exactly due to rounding.

Decommissioning Emissions

The decommissioning emissions estimated for the Project are shown in Table 27.

Table 27
Estimated Project Annual Decommissioning Greenhouse Gas Emissions

Phase	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
2050				
Campo Wind Facilities	1,175.36	0.04	0.00	1,176.39
Boulder Brush Facilities	434.56	0.01	0.00	434.88
Total	1,609.92	0.05	0.00	1,611.27
Amortized Emissions over 30 Years				53.71

Notes: CH₄ = methane; CO₂ = carbon dioxide; CO₂e = carbon dioxide equivalent; N₂O = nitrous oxide.

See Appendix A for complete results.

As shown in Table 27, the estimated total GHG emissions during decommissioning would be approximately 1,611 MT CO₂e. Estimated Project-generated decommissioning emissions amortized over 30 years would be approximately 54 MT CO₂e per year.

Operational Emissions

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 28. It is estimated that 66 MT CO₂e annually would result from SF₆ gas leakage, which are included in area source emissions.

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Table 28
Estimated Project Annual Operational Greenhouse Gas Emissions

Emission Source	CO ₂	CH ₄	N ₂ O	CO ₂ e
	<i>metric tons per year</i>			
Area ¹	<0.01	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 ²	15.23	<0.01	0.00	15.29
Solid waste	0.94	0.06	0.00	2.34
Water supply and wastewater	3.93	0.03	<0.01	4.88
Total	136.86	0.09	<0.01	204.93
<i>Amortized Construction Emissions</i>				218.13
<i>Amortized Loss of Carbon Sequestration</i>				452.51
<i>Amortized Decommissioning Emissions</i>				53.71
Operation + Amortized Construction + Loss of Carbon Sequestration + Amortized Decommissioning Total				929.28

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.

¹ Emissions from SF₆ are considered an area source.

² Stationary sources includes emergency generators.

Numbers may not add exactly due to rounding.

As shown in Table 28, estimated annual Project-generated GHG emissions would be approximately 205 MT CO₂e per year as a result of Project operations only. Estimated annual Project-generated operational emissions in 2021 plus amortized Project construction emissions plus loss of carbon sequestration plus decommissioning emissions would be approximately 929 MT CO₂e per year.

Avoided GHG Emissions

In keeping with the renewable energy target under the Scoping Plan and as required by SB 100 and EO B-55-18, the Project would provide a source of renewable energy to assist in progressing toward the RPS goals of 60% by 2030 and 100% by 2045. Renewable energy, in turn, potentially offsets GHG emissions generated by fossil-fuel power plants. As noted above, the Project would result in 929 MT CO₂e per year. The Project is expected to produce an estimated 756,000 megawatt hours of electricity per year. The default CalEEMod CO₂ emission factor for SDG&E was 720.49 pounds of CO₂ per megawatt-hour from 2009 (CAPCOA 2017). The renewable content for SDG&E for 2009 was 10%. SDG&E reported that 44% of its power mix was renewable in 2017, which would result in 448.30 pounds CO₂ per megawatt-hour (see Appendix A for more details). Assuming that SDG&E would meet the EO B-55-18 carbon neutrality target in 2045, a linear regression of the SDG&E GHG emission factor was calculated from 2017 to 2044. This would

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mean that the Project would avoid less GHG emissions over time. Assuming this, the Project would avoid a total of 1,784,378 MT CO₂ from 2020 through 2044. In contrast, including amortized construction emissions and carbon loss, the project would emit 27,878 MT CO₂ over a 30-year lifetime. The Project is expected to be operational through 2050, and thus it would not be avoiding GHG emissions from 2045 through 2050.

The Boulder Brush Facilities and the Campo Wind Facilities are integral for full Project operation; thus, the Project would avoid approximately 1,756,500 MT CO₂e over its lifetime. Accordingly, the Project would avoid more GHG emissions than it would generate resulting in a **less than cumulatively considerable** contribution to significant cumulative climate change impacts.

3.5.2 Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

County Greenhouse Gas Reduction Plans

As discussed in Section 3.5.1.1, the Project would be consistent with the County's CAP through application of the CAP Consistency Checklist. The Project also is consistent with County Plans and policies adopted to reduce GHG emissions. The County's General Plan includes many goals and policies adopted to reduce GHG emissions, which the General Plan organizes into "strategies." Strategy A-3 is to increase generation and use of renewable energy sources and includes Conservation and Open Space Policy COS-18.1. The Conservation and Open Space Element of the County's General Plan "encourages and supports land use development patterns and transportation choices that reduce pollutants and greenhouse gases" and "encourages renewable energy production." Goal COS-18 promotes sustainable energy and encourages "[e]nergy systems that reduce consumption of non-renewable resources and reduce GHG and other air pollutant emissions while minimizing impacts to natural resources and communities." Policy COS-18.1 supports Goal COS-18 and directs the County to work with developers to facilitate the development of alternative energy systems. The Project is a renewable energy source is therefore consistent with Strategy A-3, Goal COS-18, Policy COS-18.1, and one of the primary purposes of the Conservation and Open Space Element. Therefore, the Project would be consistent with the County's GHG reduction plans.

Consistency with CARB's Scoping Plan

As discussed in Section 3.1.4, Potential Effects of Climate Change, the Scoping Plan (approved by CARB in 2008 and updated in 2014 and 2017) provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. The Scoping Plan is not directly applicable to specific

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proposed projects, nor is it intended to be used for proposed project-level evaluations.¹⁶ Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., LCFS), among others.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. In keeping with the renewable energy target under the Scoping Plan and as required by SB 100 and EO B-55-18, the Project would provide a source of renewable energy to assist in progressing toward the RPS goals of 60% by 2030 and 100% by 2045. Renewable energy, in turn, potentially offsets GHG emissions generated by fossil-fuel power plants. Accordingly, the Project would avoid more GHG emissions than it would generate. Appendix B of the Scoping Plan includes local measures to reduce GHG emissions; however, these measures would not apply to the Project, since the Project is a renewable energy project. Table 29 highlights measures that have been, or will be, developed under the Scoping Plan and the Project's consistency with Scoping Plan measures. To the extent that these regulations are applicable to the Project, its inhabitants, or uses, the Project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law.

Table 29
Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
<i>Transportation Sector</i>		
Advanced Clean Cars	T-1	Not applicable. The Project would not prevent CARB from implementing this measure.
Low-Carbon Fuel Standard	T-2	Consistent. Motor vehicles driven by the Project's employees would use compliant fuels.
Regional Transportation-Related GHG Targets	T-3	Not applicable. The Project would not prevent CARB from implementing this measure.
Advanced Clean Transit	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.

¹⁶ The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

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Table 29
Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Last-Mile Delivery	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.
Reduction in VMT	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.
Vehicle Efficiency Measures 1. Tire Pressure 2. Fuel Efficiency Tire Program 3. Low-Friction Oil 4. Solar-Reflective Automotive Paint and Window Glazing	T-4	Not applicable. The Project would not prevent CARB from implementing this measure.
Ship Electrification at Ports (Shore Power)	T-5	Not applicable. The Project would not prevent CARB from implementing this measure.
Goods Movement Efficiency Measures 1. Port Drayage Trucks 2. Transport Refrigeration Units Cold Storage Prohibition 3. Cargo Handling Equipment, Anti-Idling, Hybrid, Electrification 4. Goods Movement Systemwide Efficiency Improvements 5. Commercial Harbor Craft Maintenance and Design Efficiency 6. Clean Ships 7. Vessel Speed Reduction	T-6	Not applicable. The Project would not prevent CARB from implementing this measure.
Heavy-Duty Vehicle GHG Emission Reduction 1. Tractor-Trailer GHG Regulation 2. Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines (Phase I)	T-7	Not applicable. The Project would not prevent CARB from implementing this measure.
Medium- and Heavy-Duty Vehicle Hybridization Voucher Incentive Proposed Project	T-8	Not applicable. The Project would not prevent CARB from implementing this measure.
Medium and Heavy-Duty GHG Phase 2	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.
High-Speed Rail	T-9	Not applicable. The Project would not prevent CARB from implementing this measure.
<i>Electricity and Natural Gas Sector</i>		
Energy Efficiency Measures (Electricity)	E-1	Not applicable. The Project would not prevent CARB from implementing this measure.
Energy Efficiency (Natural Gas)	CR-1	Not applicable. The Project would not prevent CARB from implementing this measure.

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Table 29
Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Solar Water Heating (California Solar Initiative Thermal Program)	CR-2	Not applicable. The Project would not prevent CARB from implementing this measure.
Combined Heat and Power	E-2	Not applicable. The Project would not prevent CARB from implementing this measure.
Renewables Portfolio Standard (33% by 2020)	E-3	Consistent. The Project would generate 252 MW of wind energy to support the Renewables Portfolio Standard.
Renewables Portfolio Standard (50% by 2050)	N/A	Consistent. The Project would generate 252 MW of wind energy to support the Renewables Portfolio Standard.
SB 1 Million Solar Roofs (California Solar Initiative, New Solar Home Partnership, Public Utility Programs) and Earlier Solar Programs	E-4	Not applicable. The Project would not prevent CARB from implementing this measure.
<i>Water Sector</i>		
Water Use Efficiency	W-1	Consistent. The Project would use water for dust suppression during construction and panel rinsing during operation. The water used would be sourced from on-site non-potable water wells.
Water Recycling	W-2	Not applicable. The Project would not prevent CARB from implementing this measure.
Water System Energy Efficiency	W-3	Not applicable. The Project would not prevent CARB from implementing this measure.
Reuse Urban Runoff	W-4	Not applicable. The Project would not prevent CARB from implementing this measure.
Renewable Energy Production	W-5	Not applicable. This measure applies to renewable energy within the water sector. The Project would not prevent CARB from implementing this measure.
<i>Green Buildings</i>		
1. State Green Building Initiative: Leading the Way with State Buildings (Greening New and Existing State Buildings)	GB-1	Not applicable. The Project would not prevent CARB from implementing this measure.
2. Green Building Standards Code (Greening New Public Schools, Residential and Commercial Buildings)	GB-1	Not applicable. The Project would not prevent CARB from implementing this measure.
3. Beyond Code: Voluntary Programs at the Local Level (Greening New Public Schools, Residential and Commercial Buildings)	GB-1	Not applicable. The Project would not prevent CARB from implementing this measure.
4. Greening Existing Buildings (Greening Existing Homes and Commercial Buildings)	GB-1	Not applicable. The Project would not prevent CARB from implementing this measure.

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Table 29
Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
<i>Industry Sector</i>		
Energy Efficiency and Co-Benefits Audits for Large Industrial Sources	I-1	Not applicable. The Project would not prevent CARB from implementing this measure.
Oil and Gas Extraction GHG Emission Reduction	I-2	Not applicable. The Project would not prevent CARB from implementing this measure.
Reduce GHG Emissions by 20% in Oil Refinery Sector	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.
GHG Emissions Reduction from Natural Gas Transmission and Distribution	I-3	Not applicable. The Project would not prevent CARB from implementing this measure.
Refinery Flare Recovery Process Improvements	I-4	Not applicable. The Project would not prevent CARB from implementing this measure.
Work with the local air districts to evaluate amendments to their existing leak detection and repair rules for industrial facilities to include methane leaks	I-5	Not applicable. The Project would not prevent CARB from implementing this measure.
<i>Recycling and Waste Management Sector</i>		
Landfill Methane Control Measure	RW-1	Not applicable. The Project would not prevent CARB from implementing this measure.
Increasing the Efficiency of Landfill Methane Capture	RW-2	Not applicable. The Project would not prevent CARB from implementing this measure.
Mandatory Commercial Recycling	RW-3	Consistent. The Project would recycle the maximum extent that is feasible in accordance with state and local regulations.
Increase Production and Markets for Compost and Other Organics	RW-3	Not applicable. The Project would not prevent CARB from implementing this measure.
Anaerobic/Aerobic Digestion	RW-3	Not applicable. The Project would not prevent CARB from implementing this measure.
Extended Producer Responsibility	RW-3	Not applicable. The Project would not prevent CARB from implementing this measure.
Environmentally Preferable Purchasing	RW-3	Not applicable. The Project would not prevent CARB from implementing this measure.
<i>Forests Sector</i>		
Sustainable Forest Target	F-1	Not applicable. The Project would not prevent CARB from implementing this measure.
<i>High GWP Gases Sector</i>		
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing	H-1	Not applicable. The Project would not prevent CARB from implementing this measure.
SF ₆ Limits in Non-Utility and Non-Semiconductor Applications	H-2	Not applicable. The Project would not prevent CARB from implementing this measure.
Reduction of Perfluorocarbons (PFCs) in Semiconductor Manufacturing	H-3	Not applicable. The Project would not prevent CARB from implementing this measure.

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Table 29
Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Limit High GWP Use in Consumer Products	H-4	Not applicable. The Project would not prevent CARB from implementing this measure.
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	Not applicable. The Project would not prevent CARB from implementing this measure.
Stationary Equipment Refrigerant Management Program – Refrigerant Tracking/Reporting/Repair Program	H-6	Not applicable. The Project would not prevent CARB from implementing this measure.
Stationary Equipment Refrigerant Management Program – Specifications for Commercial and Industrial Refrigeration	H-6	Not applicable. The Project would not prevent CARB from implementing this measure.
SF ₆ Leak Reduction Gas Insulated Switchgear	H-6	Consistent. The Project would utilize gas insulated switchgear that would be subject to CARB regulations and meet the leak rate mandates.
40% reduction in methane and hydrofluorocarbon (HFC) emissions	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.
50% reduction in black carbon emissions	N/A	Not applicable. The Project would not prevent CARB from implementing this measure.
<i>Agriculture Sector</i>		
Methane Capture at Large Dairies	A-1	Not applicable. The Project would not prevent CARB from implementing this measure.

Source: CARB 2008, 2017a.

Notes: CARB = California Air Resources Board; GHG = greenhouse gas; VMT = vehicle miles traveled; MW = megawatt; N/A = not applicable; SF₆ = sulfur hexafluoride; PFC = perfluorocarbon; GWP = global warming potential.

Based on the analysis in Table 29, the Project would be consistent with the applicable strategies and measures in the Scoping Plan.

The Project would not impede and may help the attainment of the GHG reduction goals for 2030 or 2050 identified in EO S-3-05, B-55-18, and SB 32. As discussed in Section 3.2.2, EO S-3-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014). EO B-55-18 established the goal to achieve carbon neutrality by 2045.

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To begin, CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that “California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32” (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014):

This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-3-05. This is confirmed in the Second Update (CARB 2017a), which states:

The Proposed Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasibility and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Proposed Plan is developed to be consistent with requirements set forth in AB 32, SB 32, and AB 197.

In addition, as discussed previously, the Project is consistent with the GHG emission reduction measures in the Scoping Plan and would not conflict with the state’s trajectory toward future GHG reductions. Since the specific path to compliance for the state in regards to the long-term goals will likely require development of technology or other changes that are not currently known or available, specific additional mitigation measures for the Project would be speculative and cannot be identified at this time. The Project’s consistency would assist in meeting the County’s contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and EO S-3-05, CARB has also made clear its legal interpretation is that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet SB 32’s 40% reduction target by 2030 and EO S-3-05’s 80% reduction target by 2050; this legal interpretation by an expert agency provides evidence that future regulations will be adopted to continue the state on its

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trajectory toward meeting these future GHG targets. The Project would increase renewable energy production and thus would support the goals within SB 32, EO S-3-05, and EO B-55-18. Based on the considerations previously outlined, the Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and no mitigation is required.

Consistency with SANDAG's San Diego Forward: the Regional Plan

Regarding consistency with SANDAG's Regional Plan, the Project operations would generate minimal annual operational mobile trips from maintenance and security vehicles.

Table 30 illustrates the Project's consistency with all applicable goals and policies of San Diego Forward: The Regional Plan (SANDAG 2015).

Table 30
San Diego Forward: The Regional Plan Consistency Analysis

Category	Policy Objective or Strategy	Consistency Analysis
<i>The Regional Plan – Policy Objectives</i>		
Mobility Choices	Provide safe, secure, healthy, affordable, and convenient travel choices between the places where people live, work, and play.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to provide safe, secure, healthy, affordable, and convenient travel choices between the places where people live, work, and play.
Mobility Choices	Take advantage of new technologies to make the transportation system more efficient and environmentally friendly.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to take advantage of new technologies to make the transportation system more efficient and environmentally friendly.
Habitat and Open Space Preservation	Focus growth in areas that are already urbanized, allowing the region to set aside and restore more open space in our less developed areas.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to set aside and restore more open space.
Habitat and Open Space Preservation	Protect and restore our region's urban canyons, coastlines, beaches, and water resources.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to set aside and restore more open space.
Regional Economic Prosperity	Invest in transportation projects that provide access for all communities to a variety of jobs with competitive wages.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to invest in transportation projects available to all members of the Community.
Regional Economic Prosperity	Build infrastructure that makes the movement of freight in our community more efficient and environmentally friendly.	<i>Not Applicable.</i> The Project does not propose regional freight movement, nor would it impair SANDAG's ability to preserve and expand options for regional freight movement.

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Table 30
San Diego Forward: The Regional Plan Consistency Analysis

Category	Policy Objective or Strategy	Consistency Analysis
Partnerships/Collaboration	Collaborate with Native American tribes, Mexico, military bases, neighboring counties, infrastructure providers, the private sector, and local communities to design a transportation system that connects to the mega-region and national network, works for everyone, and fosters a high quality of life for all.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to provide transportation choices to better connect the San Diego region with Mexico, neighboring counties, and tribal nations.
Partnerships/Collaboration	As we plan for our region, recognize the vital economic, environmental, cultural, and community linkages between the San Diego region and Baja California.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to provide transportation choices to better connect the San Diego region with Mexico.
Healthy and Complete Communities	Create great places for everyone to live, work, and play.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to create great places for everyone to live, work, and play.
Healthy and Complete Communities	Connect communities through a variety of transportation choices that promote healthy lifestyles, including walking and biking.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to connect communities through a variety of transportation choices that promote healthy lifestyles, including walking and biking.
Environmental Stewardship	Make transportation investments that result in cleaner air, environmental protection, conservation, efficiency, and sustainable living.	<i>Consistent.</i> The Project would support the goal of producing clean energy for sustainable living.
Environmental Stewardship	Support energy programs that promote sustainability.	<i>Consistent.</i> The Project would support the goal of producing clean energy for sustainable living.
Sustainable Communities Strategy – Strategies		
Strategy No. 1	Focus housing and job growth in urbanized areas where there is existing and planned transportation infrastructure, including transit.	<i>Not Applicable.</i> The Project would not include housing or job growth in urbanized areas.
Strategy No. 2	Protect the environment and help ensure the success of smart growth land use policies by preserving sensitive habitat, open space, cultural resources, and farmland.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to set aside and restore more open space.
Strategy No. 3	Invest in a transportation network that gives people transportation choices and reduces greenhouse gas emissions.	<i>Consistent.</i> The Project would help reduce greenhouse gas emissions through the production of clean renewable energy.
Strategy No. 4	Address the housing needs of all economic segments of the population.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to address the housing needs of all economic segments of the population.

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Table 30
San Diego Forward: The Regional Plan Consistency Analysis

Category	Policy Objective or Strategy	Consistency Analysis
Strategy No. 5	Implement the Regional Plan through incentives and collaboration.	<i>Not Applicable.</i> The Project would not impair the ability of SANDAG to implement the Regional Transportation Plan through incentives and collaborations.

Source: SANDAG 2015.

Notes: SANDAG = San Diego Association of Governments.

As shown in Table 30, the Project is consistent with all applicable Regional Plan Policy Objectives or Strategies.

The Project would provide a potential reduction in GHG emissions from electricity use each year of operation if the electricity generated by the solar facility were to be used instead of electricity generated by fossil-fuel sources. Specifically, the Project would directly aid the state in achieving statewide GHG emission reductions through the increased production of renewable energy as called for under SB X1 2, SB 350, and SB 100, and discussed in the Scoping Plan. The latest of these bills, SB 100, requires utilities to provide an energy mix containing at least 60% renewables by 2030. The Project would aid in meeting that target.

Therefore, because the Project would assist in the attainment of the state's and County's goals by providing a new renewable source of energy that could displace electricity generated by fossil-fuel-fired power plants, the Project would be consistent with the regulations, plans, goals and objectives of the state and the County adopted to reduce GHG emissions, and would make a **less than cumulatively considerable contribution** to significant cumulative climate change impacts.

3.5.3 Cumulative Impact Analysis

Due to the global nature of the assessment of GHG emissions and the effects of global climate change, impacts are analyzed from a cumulative impact context; therefore, the Project's analysis includes an assessment of Project impacts as a cumulative impact, as discussed in Section 3.5.2.

3.5.4 Mitigation

The Project would be consistent with the County's CAP, the Scoping Plan, and SANDAG's Regional Plan; therefore, impacts related to GHG emissions would be **less than significant**. No mitigation is required.

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3.5.5 Conclusion

The Project is consistent with the County's CAP and would implement all applicable action items from the CAP Consistency Checklist. Renewable energy production potentially offsets GHG emissions generated by fossil-fuel power plants. Additionally, the generation of renewable energy from the Project is integral in the County meeting CAP goal E-2.1, "Increase Renewable Energy."

The Project is also consistent with applicable plans, policies, and regulations adopted to reduce GHG emissions, including SB X1 2, SB 350, and SB 100, and County General Plan Strategy A-3. The Project also supports the County's Strategic Energy Plan. The Project's amortized construction emissions, loss of carbon sequestration, amortized decommissioning emissions, and operational emissions would be 929 MT CO_{2e} per year. Furthermore, implementation of M-AQ-1, as described in Section 2.2.6 of the Project's EIR, would require use of electrical or natural-gas-powered construction, where feasible, which would reduce the use of diesel-powered off-road construction equipment and result in GHG co-benefits. Therefore, the project would make a **less-than-significant** contribution to significant cumulative climate change impacts.

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Air Quality and Greenhouse Gas Emissions Analysis Technical Report for Campo Wind Project with Boulder Brush Facilities

5 LIST OF PREPARERS

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Air Quality and Greenhouse Gas Emissions Analysis Technical Report for Campo Wind Project with Boulder Brush Facilities

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APPENDIX A

CalEEMod Output Files

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

Boulder Brush Facilities 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

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/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

Project Characteristics - Mitigated Boulder Brush Facilities construction emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
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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
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
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tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00
tblConstructionPhase	NumDays	100.00	16.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	130.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
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tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

tblTripsAndVMT	HaulingTripLength	20.00	60.00
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tblTripsAndVMT	HaulingTripLength	20.00	60.00
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tblTripsAndVMT	VendorTripLength	6.60	47.00
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tblTripsAndVMT	VendorTripNumber	0.00	10.00
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tblTripsAndVMT	VendorTripNumber	0.00	10.00
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tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5211	4.7008	3.7850	8.6300e-003	0.5703	0.2270	0.7973	0.2270	0.2166	0.4436	0.0000	775.6639	775.6639	0.1113	0.0000	778.4457
2020	0.7118	5.3952	5.6679	0.0141	0.4679	0.2586	0.7265	0.1261	0.2516	0.3777	0.0000	1,254.9983	1,254.9983	0.1152	0.0000	1,257.8789
Maximum	0.7118	5.3952	5.6679	0.0141	0.5703	0.2586	0.7973	0.2270	0.2516	0.4436	0.0000	1,254.9983	1,254.9983	0.1152	0.0000	1,257.8789

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	0.1473	0.8986	3.9116	8.6300e-003	0.3446	0.0145	0.3591	0.1215	0.0142	0.1357	0.0000	775.6633	775.6633	0.1113	0.0000	778.4452
2020	0.2633	1.5127	5.9402	0.0141	0.4679	0.0194	0.4873	0.1261	0.0189	0.1450	0.0000	1,254.9975	1,254.9975	0.1152	0.0000	1,257.8781
Maximum	0.2633	1.5127	5.9402	0.0141	0.4679	0.0194	0.4873	0.1261	0.0189	0.1450	0.0000	1,254.9975	1,254.9975	0.1152	0.0000	1,257.8781

	ROG	NOx	CO	SO2	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	66.70	76.12	-4.22	0.00	21.74	93.02	44.46	29.88	92.93	65.83	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	7-1-2019	9-30-2019	0.3512	0.0590
4	10-1-2019	12-31-2019	4.9174	1.0011
5	1-1-2020	3-31-2020	2.7488	0.6840
6	4-1-2020	6-30-2020	2.6593	0.6545
7	7-1-2020	9-30-2020	0.3846	0.2189
		Highest	4.9174	1.0011

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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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

	ROG	NOx	CO	SO2	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**

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and grading	Grading	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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 Facilities Construction Mitigated - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

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
High voltage substation and switchyard	17	144.00	8.00	415.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	25.20	47.00	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 Facilities Construction Mitigated - San Diego County, Annual

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					0.3700	0.0000	0.3700	0.1730	0.0000	0.1730	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	0.3700	0.0409	0.4109	0.1730	0.0376	0.2106	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	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0112	8.0000e-005	0.0113	2.9800e-003	7.0000e-005	3.0500e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	9.9100e-003	0.1198	0.0671	4.8000e-004	0.0219	1.4000e-003	0.0233	6.0500e-003	1.3300e-003	7.3800e-003	0.0000	45.9370	45.9370	2.2300e-003	0.0000	45.9928

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

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					0.1443	0.0000	0.1443	0.0675	0.0000	0.0675	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	0.1443	1.1600e-003	0.1455	0.0675	1.1600e-003	0.0686	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	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0112	8.0000e-005	0.0113	2.9800e-003	7.0000e-005	3.0500e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	9.9100e-003	0.1198	0.0671	4.8000e-004	0.0219	1.4000e-003	0.0233	6.0500e-003	1.3300e-003	7.3800e-003	0.0000	45.9370	45.9370	2.2300e-003	0.0000	45.9928

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3.3 High voltage 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	5.6200e-003	0.1242	0.0329	3.9000e-004	0.0114	1.4100e-003	0.0128	3.2900e-003	1.3500e-003	4.6400e-003	0.0000	38.1927	38.1927	2.0600e-003	0.0000	38.2441
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	0.0446	0.2060	0.3375	1.4600e-003	0.1105	2.2600e-003	0.1128	0.0295	2.1400e-003	0.0317	0.0000	135.9716	135.9716	5.7700e-003	0.0000	136.1158

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.3 High voltage 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	0.0316	0.1914	1.7635	2.9000e-003		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	249.3385	249.3385	0.0314	0.0000	250.1245
Total	0.0316	0.1914	1.7635	2.9000e-003		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-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	5.6200e-003	0.1242	0.0329	3.9000e-004	0.0114	1.4100e-003	0.0128	3.2900e-003	1.3500e-003	4.6400e-003	0.0000	38.1927	38.1927	2.0600e-003	0.0000	38.2441
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	0.0446	0.2060	0.3375	1.4600e-003	0.1105	2.2600e-003	0.1128	0.0295	2.1400e-003	0.0317	0.0000	135.9716	135.9716	5.7700e-003	0.0000	136.1158

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.3 High voltage 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	8.7200e-003	0.2131	0.0581	7.7000e-004	0.0227	1.7900e-003	0.0245	6.5300e-003	1.7100e-003	8.2500e-003	0.0000	75.1388	75.1388	3.9600e-003	0.0000	75.2377
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	0.0812	0.3612	0.6133	2.8200e-003	0.2115	3.3500e-003	0.2148	0.0567	3.1600e-003	0.0599	0.0000	263.6788	263.6788	0.0109	0.0000	263.9500

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.3 High voltage 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	0.0627	0.3800	3.5006	5.7500e-003		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	492.5716	492.5716	0.0594	0.0000	494.0561
Total	0.0627	0.3800	3.5006	5.7500e-003		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	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	8.7200e-003	0.2131	0.0581	7.7000e-004	0.0227	1.7900e-003	0.0245	6.5300e-003	1.7100e-003	8.2500e-003	0.0000	75.1388	75.1388	3.9600e-003	0.0000	75.2377
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	0.0812	0.3612	0.6133	2.8200e-003	0.2115	3.3500e-003	0.2148	0.0567	3.1600e-003	0.0599	0.0000	263.6788	263.6788	0.0109	0.0000	263.9500

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.4 Unpaved construction of 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	8.2000e-004	5.0000e-005	8.7000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0224	1.5000e-004	0.0226	5.9600e-003	1.4000e-004	6.1000e-003	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0149	0.1353	0.1063	6.3000e-004	0.0339	1.5200e-003	0.0354	9.2600e-003	1.4500e-003	0.0107	0.0000	59.6739	59.6739	2.8200e-003	0.0000	59.7444

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.4 Unpaved construction of 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	8.2000e-004	5.0000e-005	8.7000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0224	1.5000e-004	0.0226	5.9600e-003	1.4000e-004	6.1000e-003	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0149	0.1353	0.1063	6.3000e-004	0.0339	1.5200e-003	0.0354	9.2600e-003	1.4500e-003	0.0107	0.0000	59.6739	59.6739	2.8200e-003	0.0000	59.7444

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.5 Gen-tie 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	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	1.6800e-003	0.0371	9.8300e-003	1.2000e-004	3.4100e-003	4.2000e-004	3.8300e-003	9.8000e-004	4.0000e-004	1.3900e-003	0.0000	11.4008	11.4008	6.1000e-004	0.0000	11.4162
Worker	5.9600e-003	5.0300e-003	0.0466	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8100e-003	9.0000e-005	3.9100e-003	0.0000	13.1962	13.1962	4.0000e-004	0.0000	13.2063
Total	7.9700e-003	0.0529	0.0590	3.0000e-004	0.0185	5.7000e-004	0.0191	5.0000e-003	5.4000e-004	5.5600e-003	0.0000	27.8101	27.8101	1.2700e-003	0.0000	27.8420

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3.5 Gen-tie 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	1.9800e-003	0.0143	0.1139	1.8000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	1.9800e-003	0.0143	0.1139	1.8000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	1.6800e-003	0.0371	9.8300e-003	1.2000e-004	3.4100e-003	4.2000e-004	3.8300e-003	9.8000e-004	4.0000e-004	1.3900e-003	0.0000	11.4008	11.4008	6.1000e-004	0.0000	11.4162
Worker	5.9600e-003	5.0300e-003	0.0466	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8100e-003	9.0000e-005	3.9100e-003	0.0000	13.1962	13.1962	4.0000e-004	0.0000	13.2063
Total	7.9700e-003	0.0529	0.0590	3.0000e-004	0.0185	5.7000e-004	0.0191	5.0000e-003	5.4000e-004	5.5600e-003	0.0000	27.8101	27.8101	1.2700e-003	0.0000	27.8420

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3.6 Gen-tie 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	1.0000e-005	4.4000e-004	1.0000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.1310	0.1310	1.0000e-005	0.0000	0.1313
Vendor	1.7800e-003	0.0394	0.0104	1.2000e-004	3.6200e-003	4.5000e-004	4.0700e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.1134	12.1134	6.5000e-004	0.0000	12.1297
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0114	8.0000e-005	0.0115	3.0400e-003	7.0000e-005	3.1100e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.5400e-003	0.0439	0.0477	2.4000e-004	0.0155	5.3000e-004	0.0160	4.1800e-003	5.0000e-004	4.6800e-003	0.0000	22.7601	22.7601	9.8000e-004	0.0000	22.7846

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3.6 Gen-tie 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	6.2000e-004	8.7400e-003	0.0293	5.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431
Total	6.2000e-004	8.7400e-003	0.0293	5.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	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	1.0000e-005	4.4000e-004	1.0000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.1310	0.1310	1.0000e-005	0.0000	0.1313
Vendor	1.7800e-003	0.0394	0.0104	1.2000e-004	3.6200e-003	4.5000e-004	4.0700e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.1134	12.1134	6.5000e-004	0.0000	12.1297
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0114	8.0000e-005	0.0115	3.0400e-003	7.0000e-005	3.1100e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.5400e-003	0.0439	0.0477	2.4000e-004	0.0155	5.3000e-004	0.0160	4.1800e-003	5.0000e-004	4.6800e-003	0.0000	22.7601	22.7601	9.8000e-004	0.0000	22.7846

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.6 Gen-tie 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	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204
Total	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204

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	1.9000e-004	6.2200e-003	1.5600e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.9868	1.9868	1.6000e-004	0.0000	1.9908
Vendor	0.0214	0.5228	0.1425	1.8900e-003	0.0556	4.3900e-003	0.0600	0.0160	4.2000e-003	0.0202	0.0000	184.3160	184.3160	9.7100e-003	0.0000	184.5588
Worker	0.0684	0.0556	0.5222	1.7300e-003	0.1757	1.1900e-003	0.1769	0.0467	1.0900e-003	0.0478	0.0000	156.3441	156.3441	4.4500e-003	0.0000	156.4553
Total	0.0900	0.5846	0.6663	3.6400e-003	0.2318	5.6000e-003	0.2374	0.0628	5.3100e-003	0.0682	0.0000	342.6468	342.6468	0.0143	0.0000	343.0049

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.6 Gen-tie 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	9.5300e-003	0.1343	0.4499	7.4000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203
Total	9.5300e-003	0.1343	0.4499	7.4000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203

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	1.9000e-004	6.2200e-003	1.5600e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.9868	1.9868	1.6000e-004	0.0000	1.9908
Vendor	0.0214	0.5228	0.1425	1.8900e-003	0.0556	4.3900e-003	0.0600	0.0160	4.2000e-003	0.0202	0.0000	184.3160	184.3160	9.7100e-003	0.0000	184.5588
Worker	0.0684	0.0556	0.5222	1.7300e-003	0.1757	1.1900e-003	0.1769	0.0467	1.0900e-003	0.0478	0.0000	156.3441	156.3441	4.4500e-003	0.0000	156.4553
Total	0.0900	0.5846	0.6663	3.6400e-003	0.2318	5.6000e-003	0.2374	0.0628	5.3100e-003	0.0682	0.0000	342.6468	342.6468	0.0143	0.0000	343.0049

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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

4.0 Operational Detail - Mobile

Boulder Brush Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

Boulder Brush Facilities Construction Mitigated - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Boulder Brush Facilities 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Boulder Brush Facilities 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	3.9100e-003	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	3.9100e-003	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	0.0000					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	3.9100e-003	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

Boulder Brush Facilities 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	0.0000					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	3.9100e-003	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 Facilities Construction Mitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Boulder Brush Facilities 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
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Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

Boulder Brush Facilities 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	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

Project Characteristics - Mitigated Boulder Brush Facilities construction emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00
tblConstructionPhase	NumDays	100.00	16.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	130.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00

Boulder Brush Facilities 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	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
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	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	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities 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	20.1514	195.2040	139.1716	0.3206	36.1565	9.2155	45.3720	15.6090	8.6978	24.3069	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1
2020	11.6842	93.0599	100.3858	0.2197	6.3377	4.7926	11.1303	1.6981	4.5978	6.2959	0.0000	21,509.50 21	21,509.50 21	2.6947	0.0000	21,576.86 86
Maximum	20.1514	195.2040	139.1716	0.3206	36.1565	9.2155	45.3720	15.6090	8.6978	24.3069	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.1191	32.6651	143.3949	0.3206	18.0987	0.5610	18.6597	7.1689	0.5496	7.7184	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.41 11
2020	3.8626	18.8686	107.2632	0.2197	6.3377	0.2975	6.6352	1.6981	0.2918	1.9900	0.0000	21,509.50 21	21,509.50 21	2.6947	0.0000	21,576.86 86
Maximum	5.1191	32.6651	143.3949	0.3206	18.0987	0.5610	18.6597	7.1689	0.5496	7.7184	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1

	ROG	NOx	CO	SO2	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	71.79	82.12	-4.63	0.00	42.49	93.87	55.23	48.77	93.67	68.28	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities 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	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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 Facilities Construction Mitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

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
High voltage substation and switchyard	17	144.00	8.00	415.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	25.20	47.00	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 Facilities Construction Mitigated - 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					29.6030	0.0000	29.6030	13.8364	0.0000	13.8364			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	29.6030	3.2706	32.8736	13.8364	3.0090	16.8453		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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.1201	3,148.1201	0.1681		3,152.3233
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.7799	9.2728	5.5987	0.0390	1.7883	0.1115	1.8997	0.4936	0.1064	0.6000		4,107.5386	4,107.5386	0.1975		4,112.4755

Boulder Brush Facilities Construction Mitigated - 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					11.5452	0.0000	11.5452	5.3962	0.0000	5.3962			0.0000			0.0000
Off-Road	0.6931	3.0035	28.7376	0.0566		0.0924	0.0924		0.0924	0.0924	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 3
Total	0.6931	3.0035	28.7376	0.0566	11.5452	0.0924	11.6376	5.3962	0.0924	5.4886	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.120 1	3,148.120 1	0.1681		3,152.323 3
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.7799	9.2728	5.5987	0.0390	1.7883	0.1115	1.8997	0.4936	0.1064	0.6000		4,107.538 6	4,107.538 6	0.1975		4,112.475 5

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.3 High voltage 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	0.1670	3.5953	0.9749	0.0118	0.3475	0.0421	0.3897	0.0999	0.0403	0.1402		1,259.2480	1,259.2480	0.0673		1,260.9293
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	1.2999	5.9025	10.8080	0.0451	3.3779	0.0673	3.4452	0.9012	0.0638	0.9649		4,628.7339	4,628.7339	0.1941		4,633.5864

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.3 High voltage 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	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099
Total	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	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	0.1670	3.5953	0.9749	0.0118	0.3475	0.0421	0.3897	0.0999	0.0403	0.1402		1,259.2480	1,259.2480	0.0673		1,260.9293
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	1.2999	5.9025	10.8080	0.0451	3.3779	0.0673	3.4452	0.9012	0.0638	0.9649		4,628.7339	4,628.7339	0.1941		4,633.5864

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.3 High voltage 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	0.1304	3.1097	0.8659	0.0116	0.3475	0.0269	0.3744	0.0999	0.0257	0.1256		1,248.0545	1,248.0545	0.0652		1,249.6848
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	1.1904	5.2156	9.9073	0.0440	3.2560	0.0504	3.3063	0.8713	0.0475	0.9188		4,520.6859	4,520.6859	0.1838		4,525.2803

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.3 High voltage 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	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378
Total	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	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	0.1304	3.1097	0.8659	0.0116	0.3475	0.0269	0.3744	0.0999	0.0257	0.1256		1,248.0545	1,248.0545	0.0652		1,249.6848
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	1.1904	5.2156	9.9073	0.0440	3.2560	0.0504	3.3063	0.8713	0.0475	0.9188		4,520.6859	4,520.6859	0.1838		4,525.2803

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.4 Unpaved construction of 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	0.0335	2.0800e-003	0.0356	9.1800e-003	1.9900e-003	0.0112		151.5119	151.5119	0.0120		151.8113
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.5853	5.2270	4.4876	0.0257	1.3874	0.0609	1.4483	0.3779	0.0580	0.4359		2,684.9905	2,684.9905	0.1254		2,688.1251

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.4 Unpaved construction of 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	0.0335	2.0800e-003	0.0356	9.1800e-003	1.9900e-003	0.0112		151.5119	151.5119	0.0120		151.8113
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.5853	5.2270	4.4876	0.0257	1.3874	0.0609	1.4483	0.3779	0.0580	0.4359		2,684.9905	2,684.9905	0.1254		2,688.1251

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.5 Gen-tie 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	0.0415	1.3136	0.3148	4.0700e-003	0.0982	6.0900e-003	0.1043	0.0269	5.8200e-003	0.0327		443.8826	443.8826	0.0351		444.7597
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9749	6.3767	7.8565	0.0380	2.3715	0.0711	2.4425	0.6394	0.0675	0.7069		3,936.7798	3,936.7798	0.1778		3,941.2256

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.5 Gen-tie 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	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	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	0.0415	1.3136	0.3148	4.0700e-003	0.0982	6.0900e-003	0.1043	0.0269	5.8200e-003	0.0327		443.8826	443.8826	0.0351		444.7597
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9749	6.3767	7.8565	0.0380	2.3715	0.0711	2.4425	0.6394	0.0675	0.7069		3,936.7798	3,936.7798	0.1778		3,941.2256

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	1.5900e-003	0.0504	0.0121	1.6000e-004	0.0476	2.3000e-004	0.0478	0.0118	2.2000e-004	0.0120		17.0315	17.0315	1.3500e-003		17.0651
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7538	4.9713	5.9730	0.0293	1.8611	0.0621	1.9233	0.5024	0.0591	0.5615		3,030.2194	3,030.2194	0.1294		3,033.4550

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	1.5900e-003	0.0504	0.0121	1.6000e-004	0.0476	2.3000e-004	0.0478	0.0118	2.2000e-004	0.0120		17.0315	17.0315	1.3500e-003		17.0651
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7538	4.9713	5.9730	0.0293	1.8611	0.0621	1.9233	0.5024	0.0591	0.5615		3,030.2194	3,030.2194	0.1294		3,033.4550

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	1.4600e-003	0.0463	0.0119	1.5000e-004	3.9500e-003	1.8000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2500e-003		16.8265	16.8265	1.3400e-003		16.8601
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6734	4.3190	5.4433	0.0287	1.8175	0.0429	1.8604	0.4917	0.0407	0.5324		2,970.5518	2,970.5518	0.1227		2,973.6205

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	1.4600e-003	0.0463	0.0119	1.5000e-004	3.9500e-003	1.8000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2500e-003		16.8265	16.8265	1.3400e-003		16.8601
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6734	4.3190	5.4433	0.0287	1.8175	0.0429	1.8604	0.4917	0.0407	0.5324		2,970.5518	2,970.5518	0.1227		2,973.6205

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

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

Boulder Brush Facilities Construction Mitigated - San Diego County, Summer

3.7 Paving of switchyard access road - 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	0.5163	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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

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

4.0 Operational Detail - Mobile

Boulder Brush Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Facilities 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	0.0000	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

Boulder Brush Facilities 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	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

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	0.0000	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**

Boulder Brush Facilities 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	0.0214	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	0.0214	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	0.0000					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	0.0214	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 Facilities 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	0.0000					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	0.0214	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 Facilities Construction Mitigated - San Diego County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

Boulder Brush Facilities 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	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

Project Characteristics - Mitigated Boulder Brush Facilities construction emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00
tblConstructionPhase	NumDays	100.00	16.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	130.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00

Boulder Brush Facilities 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	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
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	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	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities 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	20.4851	195.8629	137.8972	0.3173	36.1565	9.2162	45.3726	15.6090	8.6985	24.3075	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89
2020	12.0476	93.4510	98.9137	0.2162	6.3377	4.7929	11.1305	1.6981	4.5980	6.2962	0.0000	21,154.86 10	21,154.86 10	2.6868	0.0000	21,222.03 11
Maximum	20.4851	195.8629	137.8972	0.3173	36.1565	9.2162	45.3726	15.6090	8.6985	24.3075	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.4527	33.3240	142.1206	0.3173	18.0987	0.5617	18.6604	7.1689	0.5502	7.7191	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89
2020	4.2260	19.2597	105.7911	0.2162	6.3377	0.2977	6.6354	1.6981	0.2920	1.9902	0.0000	21,154.86 09	21,154.86 09	2.6868	0.0000	21,222.03 11
Maximum	5.4527	33.3240	142.1206	0.3173	18.0987	0.5617	18.6604	7.1689	0.5502	7.7191	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89

	ROG	NOx	CO	SO2	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	70.25	81.82	-4.69	0.00	42.49	93.87	55.23	48.77	93.67	68.27	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities 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	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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 Facilities Construction Mitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

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
High voltage substation and switchyard	17	144.00	8.00	415.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	25.20	47.00	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 Facilities Construction Mitigated - 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					29.6030	0.0000	29.6030	13.8364	0.0000	13.8364			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	29.6030	3.2706	32.8736	13.8364	3.0090	16.8453		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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.0873	3,133.0873	0.1708		3,137.3564
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.8507	9.5382	5.3728	0.0383	1.7883	0.1118	1.9000	0.4936	0.1067	0.6003		4,033.1386	4,033.1386	0.1982		4,038.0927

Boulder Brush Facilities Construction Mitigated - 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					11.5452	0.0000	11.5452	5.3962	0.0000	5.3962			0.0000			0.0000
Off-Road	0.6931	3.0035	28.7376	0.0566		0.0924	0.0924		0.0924	0.0924	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 3
Total	0.6931	3.0035	28.7376	0.0566	11.5452	0.0924	11.6376	5.3962	0.0924	5.4886	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.087 3	3,133.087 3	0.1708		3,137.356 4
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.8507	9.5382	5.3728	0.0383	1.7883	0.1118	1.9000	0.4936	0.1067	0.6003		4,033.138 6	4,033.138 6	0.1982		4,038.092 7

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.3 High voltage 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	0.1698	3.6876	0.9948	0.0117	0.3475	0.0423	0.3898	0.0999	0.0404	0.1403		1,253.2349	1,253.2349	0.0683		1,254.9426
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	1.4951	6.1348	10.0081	0.0433	3.3779	0.0675	3.4454	0.9012	0.0639	0.9651		4,441.5968	4,441.5968	0.1899		4,446.3441

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.3 High voltage 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	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	0.0000	8,204.4465	8,204.4465	1.0345		8,230.3099
Total	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	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	0.1698	3.6876	0.9948	0.0117	0.3475	0.0423	0.3898	0.0999	0.0404	0.1403		1,253.2349	1,253.2349	0.0683		1,254.9426
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	1.4951	6.1348	10.0081	0.0433	3.3779	0.0675	3.4454	0.9012	0.0639	0.9651		4,441.5968	4,441.5968	0.1899		4,446.3441

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.3 High voltage 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	0.1329	3.1868	0.8839	0.0116	0.3475	0.0270	0.3745	0.0999	0.0258	0.1257		1,241.9922	1,241.9922	0.0662		1,243.6474
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	1.3758	5.4191	9.1561	0.0422	3.2560	0.0505	3.3065	0.8713	0.0477	0.9189		4,339.0577	4,339.0577	0.1799		4,343.5542

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.3 High voltage 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	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	0.0000	8,164.9298	8,164.9298	0.9843		8,189.5378
Total	0.9430	5.7146	52.6409	0.0865		0.1199	0.1199		0.1199	0.1199	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	0.1329	3.1868	0.8839	0.0116	0.3475	0.0270	0.3745	0.0999	0.0258	0.1257		1,241.9922	1,241.9922	0.0662		1,243.6474
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	1.3758	5.4191	9.1561	0.0422	3.2560	0.0505	3.3065	0.8713	0.0477	0.9189		4,339.0577	4,339.0577	0.1799		4,343.5542

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.4 Unpaved construction of 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	0.0335	2.0900e-003	0.0356	9.1800e-003	2.0000e-003	0.0112		150.5799	150.5799	0.0122		150.8835
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.6528	5.3882	4.2391	0.0250	1.3874	0.0611	1.4484	0.3779	0.0582	0.4361		2,617.1748	2,617.1748	0.1249		2,620.2980

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.4 Unpaved construction of 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	0.0335	2.0900e-003	0.0356	9.1800e-003	2.0000e-003	0.0112		150.5799	150.5799	0.0122		150.8835
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.6528	5.3882	4.2391	0.0250	1.3874	0.0611	1.4484	0.3779	0.0582	0.4361		2,617.1748	2,617.1748	0.1249		2,620.2980

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.5 Gen-tie 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	0.0420	1.3459	0.3219	4.0400e-003	0.0982	6.1400e-003	0.1044	0.0269	5.8700e-003	0.0328		441.1519	441.1519	0.0356		442.0416
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1068	6.5939	7.3368	0.0367	2.3715	0.0713	2.4427	0.6394	0.0677	0.7071		3,807.7981	3,807.7981	0.1758		3,812.1924

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.5 Gen-tie 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	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	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	0.0420	1.3459	0.3219	4.0400e-003	0.0982	6.1400e-003	0.1044	0.0269	5.8700e-003	0.0328		441.1519	441.1519	0.0356		442.0416
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1068	6.5939	7.3368	0.0367	2.3715	0.0713	2.4427	0.6394	0.0677	0.7071		3,807.7981	3,807.7981	0.1758		3,812.1924

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	1.6100e-003	0.0516	0.0124	1.6000e-004	0.0476	2.4000e-004	0.0478	0.0118	2.3000e-004	0.0120		16.9267	16.9267	1.3700e-003		16.9608
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8533	5.1400	5.5844	0.0283	1.8611	0.0623	1.9234	0.5024	0.0593	0.5616		2,933.5472	2,933.5472	0.1279		2,936.7435

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	1.6100e-003	0.0516	0.0124	1.6000e-004	0.0476	2.4000e-004	0.0478	0.0118	2.3000e-004	0.0120		16.9267	16.9267	1.3700e-003		16.9608
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8533	5.1400	5.5844	0.0283	1.8611	0.0623	1.9234	0.5024	0.0593	0.5616		2,933.5472	2,933.5472	0.1279		2,936.7435

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	1.4700e-003	0.0474	0.0121	1.5000e-004	3.9500e-003	1.9000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2600e-003		16.7208	16.7208	1.3600e-003		16.7548
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7678	4.4635	5.0780	0.0277	1.8175	0.0430	1.8605	0.4917	0.0408	0.5325		2,876.6095	2,876.6095	0.1213		2,879.6418

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	1.4700e-003	0.0474	0.0121	1.5000e-004	3.9500e-003	1.9000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2600e-003		16.7208	16.7208	1.3600e-003		16.7548
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7678	4.4635	5.0780	0.0277	1.8175	0.0430	1.8605	0.4917	0.0408	0.5325		2,876.6095	2,876.6095	0.1213		2,879.6418

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

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

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

3.7 Paving of switchyard access road - 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	0.5163	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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

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

4.0 Operational Detail - Mobile

Boulder Brush Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

Boulder Brush Facilities 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	0.0000	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

Boulder Brush Facilities 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	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

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	0.0000	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**

Boulder Brush Facilities 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	0.0214	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	0.0214	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	0.0000					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	0.0214	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 Facilities 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	0.0000					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	0.0214	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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Boulder Brush Facilities Construction Mitigated - San Diego County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

Boulder Brush Facilities 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

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)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

Project Characteristics - Unmitigated Boulder Brush Facilities construction emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	100.00	16.00
tblConstructionPhase	NumDays	100.00	278.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	5.00	40.00
tblConstructionPhase	NumDays	1.00	50.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	130.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Clearing and grading
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

[illegible]

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5211	4.7008	3.7850	8.6300e-003	0.5703	0.2270	0.7973	0.2270	0.2166	0.4436	0.0000	775.6639	775.6639	0.1113	0.0000	778.4457
2020	0.7118	5.3952	5.6679	0.0141	0.4679	0.2586	0.7265	0.1261	0.2516	0.3777	0.0000	1,254.9983	1,254.9983	0.1152	0.0000	1,257.8789
Maximum	0.7118	5.3952	5.6679	0.0141	0.5703	0.2586	0.7973	0.2270	0.2516	0.4436	0.0000	1,254.9983	1,254.9983	0.1152	0.0000	1,257.8789

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	0.5211	4.7008	3.7850	8.6300e-003	0.3446	0.2270	0.5716	0.1215	0.2166	0.3381	0.0000	775.6633	775.6633	0.1113	0.0000	778.4452
2020	0.7118	5.3952	5.6679	0.0141	0.4679	0.2586	0.7265	0.1261	0.2516	0.3777	0.0000	1,254.9975	1,254.9975	0.1152	0.0000	1,257.8781
Maximum	0.7118	5.3952	5.6679	0.0141	0.4679	0.2586	0.7265	0.1261	0.2516	0.3777	0.0000	1,254.9975	1,254.9975	0.1152	0.0000	1,257.8781

	ROG	NOx	CO	SO2	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	21.74	0.00	14.81	29.88	0.00	12.85	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	7-1-2019	9-30-2019	0.3512	0.3512
4	10-1-2019	12-31-2019	4.9174	4.9174
5	1-1-2020	3-31-2020	2.7488	2.7488
6	4-1-2020	6-30-2020	2.6593	2.6593
7	7-1-2020	9-30-2020	0.3846	0.3846
		Highest	4.9174	4.9174

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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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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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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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

	ROG	NOx	CO	SO2	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	Clearing and grading	Grading	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

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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
High voltage substation and switchyard	17	144.00	8.00	415.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	25.20	47.00	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 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					0.3700	0.0000	0.3700	0.1730	0.0000	0.1730	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	0.3700	0.0409	0.4109	0.1730	0.0376	0.2106	0.0000	63.6045	63.6045	0.0201	0.0000	64.1076

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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	0.0000	0.0000	0.0000	0.0000	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	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0112	8.0000e-005	0.0113	2.9800e-003	7.0000e-005	3.0500e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	9.9100e-003	0.1198	0.0671	4.8000e-004	0.0219	1.4000e-003	0.0233	6.0500e-003	1.3300e-003	7.3800e-003	0.0000	45.9370	45.9370	2.2300e-003	0.0000	45.9928

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					0.1443	0.0000	0.1443	0.0675	0.0000	0.0675	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	0.1443	0.0409	0.1852	0.0675	0.0376	0.1051	0.0000	63.6044	63.6044	0.0201	0.0000	64.1075

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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	0.0000	0.0000	0.0000	0.0000	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	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	4.6600e-003	3.9300e-003	0.0364	1.1000e-004	0.0112	8.0000e-005	0.0113	2.9800e-003	7.0000e-005	3.0500e-003	0.0000	10.3095	10.3095	3.1000e-004	0.0000	10.3174
Total	9.9100e-003	0.1198	0.0671	4.8000e-004	0.0219	1.4000e-003	0.0233	6.0500e-003	1.3300e-003	7.3800e-003	0.0000	45.9370	45.9370	2.2300e-003	0.0000	45.9928

3.3 High voltage 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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3.3 High voltage 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	5.6200e-003	0.1242	0.0329	3.9000e-004	0.0114	1.4100e-003	0.0128	3.2900e-003	1.3500e-003	4.6400e-003	0.0000	38.1927	38.1927	2.0600e-003	0.0000	38.2441
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	0.0446	0.2060	0.3375	1.4600e-003	0.1105	2.2600e-003	0.1128	0.0295	2.1400e-003	0.0317	0.0000	135.9716	135.9716	5.7700e-003	0.0000	136.1158

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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3.3 High voltage 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	5.6200e-003	0.1242	0.0329	3.9000e-004	0.0114	1.4100e-003	0.0128	3.2900e-003	1.3500e-003	4.6400e-003	0.0000	38.1927	38.1927	2.0600e-003	0.0000	38.2441
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	0.0446	0.2060	0.3375	1.4600e-003	0.1105	2.2600e-003	0.1128	0.0295	2.1400e-003	0.0317	0.0000	135.9716	135.9716	5.7700e-003	0.0000	136.1158

3.3 High voltage 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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3.3 High voltage 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	8.7200e-003	0.2131	0.0581	7.7000e-004	0.0227	1.7900e-003	0.0245	6.5300e-003	1.7100e-003	8.2500e-003	0.0000	75.1388	75.1388	3.9600e-003	0.0000	75.2377
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	0.0812	0.3612	0.6133	2.8200e-003	0.2115	3.3500e-003	0.2148	0.0567	3.1600e-003	0.0599	0.0000	263.6788	263.6788	0.0109	0.0000	263.9500

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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3.3 High voltage 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	8.7200e-003	0.2131	0.0581	7.7000e-004	0.0227	1.7900e-003	0.0245	6.5300e-003	1.7100e-003	8.2500e-003	0.0000	75.1388	75.1388	3.9600e-003	0.0000	75.2377
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	0.0812	0.3612	0.6133	2.8200e-003	0.2115	3.3500e-003	0.2148	0.0567	3.1600e-003	0.0599	0.0000	263.6788	263.6788	0.0109	0.0000	263.9500

3.4 Unpaved construction of 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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3.4 Unpaved construction of 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	8.2000e-004	5.0000e-005	8.7000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0224	1.5000e-004	0.0226	5.9600e-003	1.4000e-004	6.1000e-003	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0149	0.1353	0.1063	6.3000e-004	0.0339	1.5200e-003	0.0354	9.2600e-003	1.4500e-003	0.0107	0.0000	59.6739	59.6739	2.8200e-003	0.0000	59.7444

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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3.4 Unpaved construction of 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	8.2000e-004	5.0000e-005	8.7000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	3.4274	3.4274	2.7000e-004	0.0000	3.4342
Vendor	5.2500e-003	0.1159	0.0307	3.7000e-004	0.0107	1.3200e-003	0.0120	3.0700e-003	1.2600e-003	4.3300e-003	0.0000	35.6275	35.6275	1.9200e-003	0.0000	35.6755
Worker	9.3200e-003	7.8600e-003	0.0728	2.3000e-004	0.0224	1.5000e-004	0.0226	5.9600e-003	1.4000e-004	6.1000e-003	0.0000	20.6191	20.6191	6.3000e-004	0.0000	20.6348
Total	0.0149	0.1353	0.1063	6.3000e-004	0.0339	1.5200e-003	0.0354	9.2600e-003	1.4500e-003	0.0107	0.0000	59.6739	59.6739	2.8200e-003	0.0000	59.7444

3.5 Gen-tie 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	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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3.5 Gen-tie 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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	1.6800e-003	0.0371	9.8300e-003	1.2000e-004	3.4100e-003	4.2000e-004	3.8300e-003	9.8000e-004	4.0000e-004	1.3900e-003	0.0000	11.4008	11.4008	6.1000e-004	0.0000	11.4162
Worker	5.9600e-003	5.0300e-003	0.0466	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8100e-003	9.0000e-005	3.9100e-003	0.0000	13.1962	13.1962	4.0000e-004	0.0000	13.2063
Total	7.9700e-003	0.0529	0.0590	3.0000e-004	0.0185	5.7000e-004	0.0191	5.0000e-003	5.4000e-004	5.5600e-003	0.0000	27.8101	27.8101	1.2700e-003	0.0000	27.8420

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	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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3.5 Gen-tie 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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	1.6800e-003	0.0371	9.8300e-003	1.2000e-004	3.4100e-003	4.2000e-004	3.8300e-003	9.8000e-004	4.0000e-004	1.3900e-003	0.0000	11.4008	11.4008	6.1000e-004	0.0000	11.4162
Worker	5.9600e-003	5.0300e-003	0.0466	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8100e-003	9.0000e-005	3.9100e-003	0.0000	13.1962	13.1962	4.0000e-004	0.0000	13.2063
Total	7.9700e-003	0.0529	0.0590	3.0000e-004	0.0185	5.7000e-004	0.0191	5.0000e-003	5.4000e-004	5.5600e-003	0.0000	27.8101	27.8101	1.2700e-003	0.0000	27.8420

3.6 Gen-tie 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

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3.6 Gen-tie 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	1.0000e-005	4.4000e-004	1.0000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.1310	0.1310	1.0000e-005	0.0000	0.1313
Vendor	1.7800e-003	0.0394	0.0104	1.2000e-004	3.6200e-003	4.5000e-004	4.0700e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.1134	12.1134	6.5000e-004	0.0000	12.1297
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0114	8.0000e-005	0.0115	3.0400e-003	7.0000e-005	3.1100e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.5400e-003	0.0439	0.0477	2.4000e-004	0.0155	5.3000e-004	0.0160	4.1800e-003	5.0000e-004	4.6800e-003	0.0000	22.7601	22.7601	9.8000e-004	0.0000	22.7846

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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3.6 Gen-tie 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	1.0000e-005	4.4000e-004	1.0000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.1310	0.1310	1.0000e-005	0.0000	0.1313
Vendor	1.7800e-003	0.0394	0.0104	1.2000e-004	3.6200e-003	4.5000e-004	4.0700e-003	1.0400e-003	4.3000e-004	1.4700e-003	0.0000	12.1134	12.1134	6.5000e-004	0.0000	12.1297
Worker	4.7500e-003	4.0100e-003	0.0372	1.2000e-004	0.0114	8.0000e-005	0.0115	3.0400e-003	7.0000e-005	3.1100e-003	0.0000	10.5157	10.5157	3.2000e-004	0.0000	10.5237
Total	6.5400e-003	0.0439	0.0477	2.4000e-004	0.0155	5.3000e-004	0.0160	4.1800e-003	5.0000e-004	4.6800e-003	0.0000	22.7601	22.7601	9.8000e-004	0.0000	22.7846

3.6 Gen-tie 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	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204
Total	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204

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3.6 Gen-tie 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	1.9000e-004	6.2200e-003	1.5600e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.9868	1.9868	1.6000e-004	0.0000	1.9908
Vendor	0.0214	0.5228	0.1425	1.8900e-003	0.0556	4.3900e-003	0.0600	0.0160	4.2000e-003	0.0202	0.0000	184.3160	184.3160	9.7100e-003	0.0000	184.5588
Worker	0.0684	0.0556	0.5222	1.7300e-003	0.1757	1.1900e-003	0.1769	0.0467	1.0900e-003	0.0478	0.0000	156.3441	156.3441	4.4500e-003	0.0000	156.4553
Total	0.0900	0.5846	0.6663	3.6400e-003	0.2318	5.6000e-003	0.2374	0.0628	5.3100e-003	0.0682	0.0000	342.6468	342.6468	0.0143	0.0000	343.0049

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	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203
Total	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203

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3.6 Gen-tie 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	1.9000e-004	6.2200e-003	1.5600e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.9868	1.9868	1.6000e-004	0.0000	1.9908
Vendor	0.0214	0.5228	0.1425	1.8900e-003	0.0556	4.3900e-003	0.0600	0.0160	4.2000e-003	0.0202	0.0000	184.3160	184.3160	9.7100e-003	0.0000	184.5588
Worker	0.0684	0.0556	0.5222	1.7300e-003	0.1757	1.1900e-003	0.1769	0.0467	1.0900e-003	0.0478	0.0000	156.3441	156.3441	4.4500e-003	0.0000	156.4553
Total	0.0900	0.5846	0.6663	3.6400e-003	0.2318	5.6000e-003	0.2374	0.0628	5.3100e-003	0.0682	0.0000	342.6468	342.6468	0.0143	0.0000	343.0049

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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3.7 Paving of switchyard access road - 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

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

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5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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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	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			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		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	tons/yr										MT/yr					
Mitigated	3.9100e-003	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	3.9100e-003	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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Annual

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					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	3.9100e-003	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	0.0000					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	3.9100e-003	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 Facilities Construction Unmitigated - San Diego County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Boulder Brush Facilities Construction Unmitigated - 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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

Boulder Brush Facilities 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	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

Project Characteristics - Unmitigated Boulder Brush Facilities construction emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

tblConstructionPhase	NumDays	100.00	16.00
tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	130.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Clearing and grading
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

[illegible]

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

tblTripsAndVMT	WorkerTripNumber	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities 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	20.1514	195.2040	139.1716	0.3206	36.1565	9.2155	45.3720	15.6090	8.6978	24.3069	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1
2020	11.6842	93.0599	100.3858	0.2197	6.3377	4.7926	11.1303	1.6981	4.5978	6.2959	0.0000	21,509.50 21	21,509.50 21	2.6947	0.0000	21,576.86 86
Maximum	20.1514	195.2040	139.1716	0.3206	36.1565	9.2155	45.3720	15.6090	8.6978	24.3069	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	20.1514	195.2040	139.1716	0.3206	18.0987	9.2155	27.3142	7.1689	8.6978	15.8667	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1
2020	11.6842	93.0599	100.3858	0.2197	6.3377	4.7926	11.1303	1.6981	4.5978	6.2959	0.0000	21,509.50 21	21,509.50 21	2.6947	0.0000	21,576.86 86
Maximum	20.1514	195.2040	139.1716	0.3206	18.0987	9.2155	27.3142	7.1689	8.6978	15.8667	0.0000	31,896.96 22	31,896.96 22	5.2979	0.0000	32,029.411 1

	ROG	NOx	CO	SO2	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	42.49	0.00	31.96	48.77	0.00	27.58	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities 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	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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 Facilities Construction Unmitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

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
High voltage substation and switchyard	17	144.00	8.00	415.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	25.20	47.00	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 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					29.6030	0.0000	29.6030	13.8364	0.0000	13.8364			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	29.6030	3.2706	32.8736	13.8364	3.0090	16.8453		5,608.9579	5,608.9579	1.7746		5,653.3233

Boulder Brush Facilities Construction Unmitigated - 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	0.0000	0.0000	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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.120 1	3,148.120 1	0.1681		3,152.323 3
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.7799	9.2728	5.5987	0.0390	1.7883	0.1115	1.8997	0.4936	0.1064	0.6000		4,107.538 6	4,107.538 6	0.1975		4,112.475 5

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					11.5452	0.0000	11.5452	5.3962	0.0000	5.3962			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 3
Total	6.2050	67.9928	28.4123	0.0566	11.5452	3.2706	14.8158	5.3962	3.0090	8.4051	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 3

Boulder Brush Facilities Construction Unmitigated - 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	0.0000	0.0000	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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.120 1	3,148.120 1	0.1681		3,152.323 3
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.7799	9.2728	5.5987	0.0390	1.7883	0.1115	1.8997	0.4936	0.1064	0.6000		4,107.538 6	4,107.538 6	0.1975		4,112.475 5

3.3 High voltage 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		8,204.446 5	8,204.446 5	1.0345		8,230.309 9
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.446 5	8,204.446 5	1.0345		8,230.309 9

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

3.3 High voltage 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	0.1670	3.5953	0.9749	0.0118	0.3475	0.0421	0.3897	0.0999	0.0403	0.1402		1,259.2480	1,259.2480	0.0673		1,260.9293
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	1.2999	5.9025	10.8080	0.0451	3.3779	0.0673	3.4452	0.9012	0.0638	0.9649		4,628.7339	4,628.7339	0.1941		4,633.5864

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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

3.3 High voltage 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	0.1670	3.5953	0.9749	0.0118	0.3475	0.0421	0.3897	0.0999	0.0403	0.1402		1,259.2480	1,259.2480	0.0673		1,260.9293
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	1.2999	5.9025	10.8080	0.0451	3.3779	0.0673	3.4452	0.9012	0.0638	0.9649		4,628.7339	4,628.7339	0.1941		4,633.5864

3.3 High voltage 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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

3.3 High voltage 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	0.1304	3.1097	0.8659	0.0116	0.3475	0.0269	0.3744	0.0999	0.0257	0.1256		1,248.0545	1,248.0545	0.0652		1,249.6848
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	1.1904	5.2156	9.9073	0.0440	3.2560	0.0504	3.3063	0.8713	0.0475	0.9188		4,520.6859	4,520.6859	0.1838		4,525.2803

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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

3.3 High voltage 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	0.1304	3.1097	0.8659	0.0116	0.3475	0.0269	0.3744	0.0999	0.0257	0.1256		1,248.0545	1,248.0545	0.0652		1,249.6848
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	1.1904	5.2156	9.9073	0.0440	3.2560	0.0504	3.3063	0.8713	0.0475	0.9188		4,520.6859	4,520.6859	0.1838		4,525.2803

3.4 Unpaved construction of 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 Facilities Construction Unmitigated - San Diego County, Summer

3.4 Unpaved construction of 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	0.0335	2.0800e-003	0.0356	9.1800e-003	1.9900e-003	0.0112		151.5119	151.5119	0.0120		151.8113
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.5853	5.2270	4.4876	0.0257	1.3874	0.0609	1.4483	0.3779	0.0580	0.4359		2,684.9905	2,684.9905	0.1254		2,688.1251

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 Facilities Construction Unmitigated - San Diego County, Summer

3.4 Unpaved construction of 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	0.0335	2.0800e-003	0.0356	9.1800e-003	1.9900e-003	0.0112		151.5119	151.5119	0.0120		151.8113
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.3623	0.2845	3.1616	9.6300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		959.4186	959.4186	0.0293		960.1521
Total	0.5853	5.2270	4.4876	0.0257	1.3874	0.0609	1.4483	0.3779	0.0580	0.4359		2,684.9905	2,684.9905	0.1254		2,688.1251

3.5 Gen-tie 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 Facilities Construction Unmitigated - San Diego County, Summer

3.5 Gen-tie 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	0.0415	1.3136	0.3148	4.0700e-003	0.0982	6.0900e-003	0.1043	0.0269	5.8200e-003	0.0327		443.8826	443.8826	0.0351		444.7597
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9749	6.3767	7.8565	0.0380	2.3715	0.0711	2.4425	0.6394	0.0675	0.7069		3,936.7798	3,936.7798	0.1778		3,941.2256

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 Facilities Construction Unmitigated - San Diego County, Summer

3.5 Gen-tie 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	0.0415	1.3136	0.3148	4.0700e-003	0.0982	6.0900e-003	0.1043	0.0269	5.8200e-003	0.0327		443.8826	443.8826	0.0351		444.7597
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9749	6.3767	7.8565	0.0380	2.3715	0.0711	2.4425	0.6394	0.0675	0.7069		3,936.7798	3,936.7798	0.1778		3,941.2256

3.6 Gen-tie 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 Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	1.5900e-003	0.0504	0.0121	1.6000e-004	0.0476	2.3000e-004	0.0478	0.0118	2.2000e-004	0.0120		17.0315	17.0315	1.3500e-003		17.0651
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7538	4.9713	5.9730	0.0293	1.8611	0.0621	1.9233	0.5024	0.0591	0.5615		3,030.2194	3,030.2194	0.1294		3,033.4550

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 Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	1.5900e-003	0.0504	0.0121	1.6000e-004	0.0476	2.3000e-004	0.0478	0.0118	2.2000e-004	0.0120		17.0315	17.0315	1.3500e-003		17.0651
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7538	4.9713	5.9730	0.0293	1.8611	0.0621	1.9233	0.5024	0.0591	0.5615		3,030.2194	3,030.2194	0.1294		3,033.4550

3.6 Gen-tie 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 Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	1.4600e-003	0.0463	0.0119	1.5000e-004	3.9500e-003	1.8000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2500e-003		16.8265	16.8265	1.3400e-003		16.8601
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6734	4.3190	5.4433	0.0287	1.8175	0.0429	1.8604	0.4917	0.0407	0.5324		2,970.5518	2,970.5518	0.1227		2,973.6205

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 Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	1.4600e-003	0.0463	0.0119	1.5000e-004	3.9500e-003	1.8000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2500e-003		16.8265	16.8265	1.3400e-003		16.8601
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6734	4.3190	5.4433	0.0287	1.8175	0.0429	1.8604	0.4917	0.0407	0.5324		2,970.5518	2,970.5518	0.1227		2,973.6205

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

3.7 Paving of switchyard access road - 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	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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Summer

3.7 Paving of switchyard access road - 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

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

Boulder Brush Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Facilities 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	0.0000	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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Boulder Brush Facilities 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	0.0000	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	0.0214	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	0.0214	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 Facilities 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	0.0000					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	0.0214	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	0.0000					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	0.0214	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 Facilities 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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

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

11.0 Vegetation

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

Boulder Brush Facilities 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	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

Project Characteristics - Unmitigated Boulder Brush Facilities construction emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

tblConstructionPhase	NumDays	100.00	16.00
tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	130.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Clearing and grading
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

[illegible]

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

tblTripsAndVMT	WorkerTripNumber	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities 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	20.4851	195.8629	137.8972	0.3173	36.1565	9.2162	45.3726	15.6090	8.6985	24.3075	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89
2020	12.0476	93.4510	98.9137	0.2162	6.3377	4.7929	11.1305	1.6981	4.5980	6.2962	0.0000	21,154.86 10	21,154.86 10	2.6868	0.0000	21,222.031 1
Maximum	20.4851	195.8629	137.8972	0.3173	36.1565	9.2162	45.3726	15.6090	8.6985	24.3075	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	20.4851	195.8629	137.8972	0.3173	18.0987	9.2162	27.3148	7.1689	8.6985	15.8673	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89
2020	12.0476	93.4510	98.9137	0.2162	6.3377	4.7929	11.1305	1.6981	4.5980	6.2962	0.0000	21,154.86 09	21,154.86 09	2.6868	0.0000	21,222.031 1
Maximum	20.4851	195.8629	137.8972	0.3173	18.0987	9.2162	27.3148	7.1689	8.6985	15.8673	0.0000	31,567.60 92	31,567.60 92	5.2940	0.0000	31,699.95 89

	ROG	NOx	CO	SO2	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	42.49	0.00	31.96	48.77	0.00	27.58	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities 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	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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 Facilities Construction Unmitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

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
High voltage substation and switchyard	17	144.00	8.00	415.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	25.20	47.00	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 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					29.6030	0.0000	29.6030	13.8364	0.0000	13.8364			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	29.6030	3.2706	32.8736	13.8364	3.0090	16.8453		5,608.9579	5,608.9579	1.7746		5,653.3233

Boulder Brush Facilities Construction Unmitigated - 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	0.0000	0.0000	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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.087 3	3,133.087 3	0.1708		3,137.356 4
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.8507	9.5382	5.3728	0.0383	1.7883	0.1118	1.9000	0.4936	0.1067	0.6003		4,033.138 6	4,033.138 6	0.1982		4,038.092 7

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.5452	0.0000	11.5452	5.3962	0.0000	5.3962			0.0000			0.0000
Off-Road	6.2050	67.9928	28.4123	0.0566		3.2706	3.2706		3.0090	3.0090	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 3
Total	6.2050	67.9928	28.4123	0.0566	11.5452	3.2706	14.8158	5.3962	3.0090	8.4051	0.0000	5,608.957 9	5,608.957 9	1.7746		5,653.323 3

Boulder Brush Facilities Construction Unmitigated - 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	0.0000	0.0000	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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.087 3	3,133.087 3	0.1708		3,137.356 4
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.8507	9.5382	5.3728	0.0383	1.7883	0.1118	1.9000	0.4936	0.1067	0.6003		4,033.138 6	4,033.138 6	0.1982		4,038.092 7

3.3 High voltage 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		8,204.446 5	8,204.446 5	1.0345		8,230.309 9
Total	6.6938	56.5124	49.8089	0.0865		3.2950	3.2950		3.2266	3.2266		8,204.446 5	8,204.446 5	1.0345		8,230.309 9

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

3.3 High voltage 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	0.1698	3.6876	0.9948	0.0117	0.3475	0.0423	0.3898	0.0999	0.0404	0.1403		1,253.2349	1,253.2349	0.0683		1,254.9426
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	1.4951	6.1348	10.0081	0.0433	3.3779	0.0675	3.4454	0.9012	0.0639	0.9651		4,441.5968	4,441.5968	0.1899		4,446.3441

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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

3.3 High voltage 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	0.1698	3.6876	0.9948	0.0117	0.3475	0.0423	0.3898	0.0999	0.0404	0.1403		1,253.2349	1,253.2349	0.0683		1,254.9426
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	1.4951	6.1348	10.0081	0.0433	3.3779	0.0675	3.4454	0.9012	0.0639	0.9651		4,441.5968	4,441.5968	0.1899		4,446.3441

3.3 High voltage 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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

3.3 High voltage 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	0.1329	3.1868	0.8839	0.0116	0.3475	0.0270	0.3745	0.0999	0.0258	0.1257		1,241.9922	1,241.9922	0.0662		1,243.6474
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	1.3758	5.4191	9.1561	0.0422	3.2560	0.0505	3.3065	0.8713	0.0477	0.9189		4,339.0577	4,339.0577	0.1799		4,343.5542

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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

3.3 High voltage 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	0.1329	3.1868	0.8839	0.0116	0.3475	0.0270	0.3745	0.0999	0.0258	0.1257		1,241.9922	1,241.9922	0.0662		1,243.6474
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	1.3758	5.4191	9.1561	0.0422	3.2560	0.0505	3.3065	0.8713	0.0477	0.9189		4,339.0577	4,339.0577	0.1799		4,343.5542

3.4 Unpaved construction of 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 Facilities Construction Unmitigated - San Diego County, Winter

3.4 Unpaved construction of 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	0.0335	2.0900e-003	0.0356	9.1800e-003	2.0000e-003	0.0112		150.5799	150.5799	0.0122		150.8835
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.6528	5.3882	4.2391	0.0250	1.3874	0.0611	1.4484	0.3779	0.0582	0.4361		2,617.1748	2,617.1748	0.1249		2,620.2980

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 Facilities Construction Unmitigated - San Diego County, Winter

3.4 Unpaved construction of 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	0.0335	2.0900e-003	0.0356	9.1800e-003	2.0000e-003	0.0112		150.5799	150.5799	0.0122		150.8835
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.4263	0.3193	2.8857	9.0300e-003	0.9194	6.1500e-003	0.9256	0.2438	5.6700e-003	0.2495		900.0513	900.0513	0.0274		900.7363
Total	0.6528	5.3882	4.2391	0.0250	1.3874	0.0611	1.4484	0.3779	0.0582	0.4361		2,617.1748	2,617.1748	0.1249		2,620.2980

3.5 Gen-tie 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 Facilities Construction Unmitigated - San Diego County, Winter

3.5 Gen-tie 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	0.0420	1.3459	0.3219	4.0400e-003	0.0982	6.1400e-003	0.1044	0.0269	5.8700e-003	0.0328		441.1519	441.1519	0.0356		442.0416
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1068	6.5939	7.3368	0.0367	2.3715	0.0713	2.4427	0.6394	0.0677	0.7071		3,807.7981	3,807.7981	0.1758		3,812.1924

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 Facilities Construction Unmitigated - San Diego County, Winter

3.5 Gen-tie 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	0.0420	1.3459	0.3219	4.0400e-003	0.0982	6.1400e-003	0.1044	0.0269	5.8700e-003	0.0328		441.1519	441.1519	0.0356		442.0416
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.1068	6.5939	7.3368	0.0367	2.3715	0.0713	2.4427	0.6394	0.0677	0.7071		3,807.7981	3,807.7981	0.1758		3,812.1924

3.6 Gen-tie 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 Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	1.6100e-003	0.0516	0.0124	1.6000e-004	0.0476	2.4000e-004	0.0478	0.0118	2.3000e-004	0.0120		16.9267	16.9267	1.3700e-003		16.9608
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8533	5.1400	5.5844	0.0283	1.8611	0.0623	1.9234	0.5024	0.0593	0.5616		2,933.5472	2,933.5472	0.1279		2,936.7435

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 Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	1.6100e-003	0.0516	0.0124	1.6000e-004	0.0476	2.4000e-004	0.0478	0.0118	2.3000e-004	0.0120		16.9267	16.9267	1.3700e-003		16.9608
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8533	5.1400	5.5844	0.0283	1.8611	0.0623	1.9234	0.5024	0.0593	0.5616		2,933.5472	2,933.5472	0.1279		2,936.7435

3.6 Gen-tie 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 Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	1.4700e-003	0.0474	0.0121	1.5000e-004	3.9500e-003	1.9000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2600e-003		16.7208	16.7208	1.3600e-003		16.7548
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7678	4.4635	5.0780	0.0277	1.8175	0.0430	1.8605	0.4917	0.0408	0.5325		2,876.6095	2,876.6095	0.1213		2,879.6418

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 Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	1.4700e-003	0.0474	0.0121	1.5000e-004	3.9500e-003	1.9000e-004	4.1400e-003	1.0800e-003	1.8000e-004	1.2600e-003		16.7208	16.7208	1.3600e-003		16.7548
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7678	4.4635	5.0780	0.0277	1.8175	0.0430	1.8605	0.4917	0.0408	0.5325		2,876.6095	2,876.6095	0.1213		2,879.6418

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	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

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

3.7 Paving of switchyard access road - 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	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963	0.0000	4,065.9163	4,065.9163	1.3150		4,098.7913
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.7577	28.0248	28.1829	0.0420		1.6265	1.6265		1.4963	1.4963	0.0000	4,065.9163	4,065.9163	1.3150		4,098.7913

Boulder Brush Facilities Construction Unmitigated - San Diego County, Winter

3.7 Paving of switchyard access road - 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

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

Boulder Brush Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Facilities 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	0.0000	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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Boulder Brush Facilities 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	0.0000	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	0.0214	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	0.0214	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 Facilities 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	0.0000					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	0.0214	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	0.0000					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	0.0214	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 Facilities 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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

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

11.0 Vegetation

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

Boulder Brush Facilities Decommissioning 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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

Project Characteristics - Mitigated Boulder Brush Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Architectural Coating - Decommissioning emissions only.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

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	5.00	23.00
tblConstructionPhase	NumDays	100.00	85.00
tblConstructionPhase	PhaseEndDate	6/22/2050	6/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2050	0.1565	0.3686	1.4073	4.5600e-003	0.0876	9.3300e-003	0.0970	0.0233	9.3200e-003	0.0326	0.0000	434.5605	434.5605	0.0127	0.0000	434.8785
Maximum	0.1565	0.3686	1.4073	4.5600e-003	0.0876	9.3300e-003	0.0970	0.0233	9.3200e-003	0.0326	0.0000	434.5605	434.5605	0.0127	0.0000	434.8785

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					
2050	0.1311	0.2423	1.4945	4.5600e-003	0.0876	8.3100e-003	0.0960	0.0233	8.3000e-003	0.0316	0.0000	434.5601	434.5601	0.0127	0.0000	434.8781
Maximum	0.1311	0.2423	1.4945	4.5600e-003	0.0876	8.3100e-003	0.0960	0.0233	8.3000e-003	0.0316	0.0000	434.5601	434.5601	0.0127	0.0000	434.8781

	ROG	NOx	CO	SO2	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	16.25	34.27	-6.20	0.00	0.00	10.93	1.05	0.00	10.94	3.13	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2050	3-31-2050	0.3842	0.2676
2	4-1-2050	6-30-2050	0.1501	0.1123
		Highest	0.3842	0.2676

2.2 Overall Operational

Unmitigated Operational

[illegible]

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					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	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	System disassembly and removal	Building Construction	1/1/2050	5/1/2050	5	85	
2	Site cleanup and restoration	Architectural Coating	5/1/2050	6/1/2050	5	23	

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
System disassembly and removal	Generator Sets	1	8.00	84	0.74
System disassembly and removal	Off-Highway Trucks	4	8.00	402	0.38
System disassembly and removal	Other Construction Equipment	2	8.00	172	0.42
System disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
System disassembly and removal	Rough Terrain Forklifts	2	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	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
Site cleanup and restoration	2	48.00	0.00	0.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT
System disassembly and removal	10	96.00	0.00	30.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

3.2 System disassembly and removal - 2050**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	0.1419	0.3434	1.2796	3.8900e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	373.5140	373.5140	0.0114	0.0000	373.7980
Total	0.1419	0.3434	1.2796	3.8900e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	373.5140	373.5140	0.0114	0.0000	373.7980

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	2.2000e-004	4.4600e-003	3.3200e-003	4.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	3.7376	3.7376	3.4000e-004	0.0000	3.7461
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	9.2600e-003	7.1800e-003	0.0789	4.5000e-004	0.0763	1.6000e-004	0.0765	0.0203	1.4000e-004	0.0204	0.0000	41.2339	41.2339	6.1000e-004	0.0000	41.2491
Total	9.4800e-003	0.0116	0.0823	4.9000e-004	0.0773	1.7000e-004	0.0775	0.0206	1.5000e-004	0.0207	0.0000	44.9715	44.9715	9.5000e-004	0.0000	44.9953

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

3.2 System disassembly and removal - 2050**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	0.1189	0.2123	1.3495	3.8900e-003		7.9600e-003	7.9600e-003		7.9600e-003	7.9600e-003	0.0000	373.5136	373.5136	0.0114	0.0000	373.7976
Total	0.1189	0.2123	1.3495	3.8900e-003		7.9600e-003	7.9600e-003		7.9600e-003	7.9600e-003	0.0000	373.5136	373.5136	0.0114	0.0000	373.7976

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	2.2000e-004	4.4600e-003	3.3200e-003	4.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	3.7376	3.7376	3.4000e-004	0.0000	3.7461
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	9.2600e-003	7.1800e-003	0.0789	4.5000e-004	0.0763	1.6000e-004	0.0765	0.0203	1.4000e-004	0.0204	0.0000	41.2339	41.2339	6.1000e-004	0.0000	41.2491
Total	9.4800e-003	0.0116	0.0823	4.9000e-004	0.0773	1.7000e-004	0.0775	0.0206	1.5000e-004	0.0207	0.0000	44.9715	44.9715	9.5000e-004	0.0000	44.9953

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9400e-003	0.0126	0.0348	1.2000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5045
Total	3.9400e-003	0.0126	0.0348	1.2000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5045

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	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808
Total	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5100e-003	0.0173	0.0521	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5044
Total	1.5100e-003	0.0173	0.0521	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5044

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	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808
Total	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808

4.0 Operational Detail - Mobile

Boulder Brush Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Boulder Brush Facilities Decommissioning 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

[illegible]

6.2 Area by SubCategory

Unmitigated

[illegible]

Boulder Brush Facilities Decommissioning 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	0.0000					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		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail**7.1 Mitigation Measures Water**

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities Decommissioning 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities Decommissioning 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Boulder Brush Facilities Decommissioning 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

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

Boulder Brush Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

Project Characteristics - Mitigated Boulder Brush Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Architectural Coating - Decommissioning emissions only.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

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	5.00	23.00
tblConstructionPhase	NumDays	100.00	85.00
tblConstructionPhase	PhaseEndDate	6/22/2050	6/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Decommissioning 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					
2050	3.9987	9.5043	36.2879	0.1199	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,484.71 51	12,484.71 51	0.3599	0.0000	12,493.71 35
Maximum	3.9987	9.5043	36.2879	0.1199	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,484.71 51	12,484.71 51	0.3599	0.0000	12,493.71 35

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					
2050	3.2466	6.8358	39.4400	0.1199	2.7829	0.2073	2.9902	0.7381	0.2068	0.9450	0.0000	12,484.71 51	12,484.71 51	0.3599	0.0000	12,493.71 35
Maximum	3.2466	6.8358	39.4400	0.1199	2.7829	0.2073	2.9902	0.7381	0.2068	0.9450	0.0000	12,484.71 51	12,484.71 51	0.3599	0.0000	12,493.71 35

	ROG	NOx	CO	SO2	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	18.81	28.08	-8.69	0.00	0.00	12.82	1.01	0.00	12.85	3.13	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities Decommissioning 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	System disassembly and removal	Building Construction	1/1/2050	5/1/2050	5	85	
2	Site cleanup and restoration	Architectural Coating	5/1/2050	6/1/2050	5	23	

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
System disassembly and removal	Generator Sets	1	8.00	84	0.74
System disassembly and removal	Off-Highway Trucks	4	8.00	402	0.38
System disassembly and removal	Other Construction Equipment	2	8.00	172	0.42
System disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
System disassembly and removal	Rough Terrain Forklifts	2	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

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
Site cleanup and restoration	2	48.00	0.00	0.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT
System disassembly and removal	10	96.00	0.00	30.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 System disassembly and removal - 2050**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	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013
Total	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

3.2 System disassembly and removal - 2050**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	5.2000e-003	0.1021	0.0782	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		97.1326	97.1326	8.8400e-003		97.3535
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	0.2088	0.1537	2.0530	0.0113	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,129.1580	1,129.1580	0.0170		1,129.5828
Total	0.2140	0.2558	2.1312	0.0122	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,226.2906	1,226.2906	0.0258		1,226.9363

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	2.7967	4.9952	31.7538	0.0915		0.1873	0.1873		0.1873	0.1873	0.0000	9,687.7345	9,687.7345	0.2947		9,695.1012
Total	2.7967	4.9952	31.7538	0.0915		0.1873	0.1873		0.1873	0.1873	0.0000	9,687.7345	9,687.7345	0.2947		9,695.1012

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

3.2 System disassembly and removal - 2050**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	5.2000e-003	0.1021	0.0782	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		97.1326	97.1326	8.8400e-003		97.3535
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	0.2088	0.1537	2.0530	0.0113	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,129.1580	1,129.1580	0.0170		1,129.5828
Total	0.2140	0.2558	2.1312	0.0122	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,226.2906	1,226.2906	0.0258		1,226.9363

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914
Total	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914
Total	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914

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

Boulder Brush Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Facilities Decommissioning Mitigated - 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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Boulder Brush Facilities Decommissioning Mitigated - 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	0.0000	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	0.0214	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	0.0214	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 Facilities Decommissioning Mitigated - 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	0.0214					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	0.0214	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	0.0000					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	0.0214	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 Facilities Decommissioning Mitigated - 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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

Boulder Brush Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

Project Characteristics - Mitigated Boulder Brush Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Architectural Coating - Decommissioning emissions only.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Decommissioning 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
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	NumDays	100.00	85.00
tblConstructionPhase	PhaseEndDate	6/22/2050	6/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Decommissioning 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					
2050	4.0655	9.5332	35.9513	0.1188	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,378.52 49	12,378.52 49	0.3579	0.0000	12,387.47 24
Maximum	4.0655	9.5332	35.9513	0.1188	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,378.52 49	12,378.52 49	0.3579	0.0000	12,387.47 24

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					
2050	3.3134	6.8647	39.1034	0.1188	2.7829	0.2073	2.9902	0.7381	0.2068	0.9450	0.0000	12,378.52 49	12,378.52 49	0.3579	0.0000	12,387.47 24
Maximum	3.3134	6.8647	39.1034	0.1188	2.7829	0.2073	2.9902	0.7381	0.2068	0.9450	0.0000	12,378.52 49	12,378.52 49	0.3579	0.0000	12,387.47 24

	ROG	NOx	CO	SO2	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	18.50	27.99	-8.77	0.00	0.00	12.82	1.01	0.00	12.85	3.13	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities Decommissioning 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	System disassembly and removal	Building Construction	1/1/2050	5/1/2050	5	85	
2	Site cleanup and restoration	Architectural Coating	5/1/2050	6/1/2050	5	23	

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
System disassembly and removal	Generator Sets	1	8.00	84	0.74
System disassembly and removal	Off-Highway Trucks	4	8.00	402	0.38
System disassembly and removal	Other Construction Equipment	2	8.00	172	0.42
System disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
System disassembly and removal	Rough Terrain Forklifts	2	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

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
Site cleanup and restoration	2	48.00	0.00	0.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT
System disassembly and removal	10	96.00	0.00	30.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 System disassembly and removal - 2050**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	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013
Total	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

3.2 System disassembly and removal - 2050**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	5.2400e-003	0.1044	0.0785	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		96.6765	96.6765	8.8800e-003		96.8985
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	0.2533	0.1714	1.8284	0.0106	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,058.6686	1,058.6686	0.0156		1,059.0588
Total	0.2585	0.2758	1.9069	0.0115	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,155.3451	1,155.3451	0.0245		1,155.9572

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	2.7967	4.9952	31.7538	0.0915		0.1873	0.1873		0.1873	0.1873	0.0000	9,687.7345	9,687.7345	0.2947		9,695,1012
Total	2.7967	4.9952	31.7538	0.0915		0.1873	0.1873		0.1873	0.1873	0.0000	9,687.7345	9,687.7345	0.2947		9,695,1012

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

3.2 System disassembly and removal - 2050**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	5.2400e-003	0.1044	0.0785	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		96.6765	96.6765	8.8800e-003		96.8985
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	0.2533	0.1714	1.8284	0.0106	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,058.6686	1,058.6686	0.0156		1,059.0588
Total	0.2585	0.2758	1.9069	0.0115	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,155.3451	1,155.3451	0.0245		1,155.9572

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294
Total	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Mitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294
Total	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294

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

Boulder Brush Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Facilities Decommissioning Mitigated - 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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Boulder Brush Facilities Decommissioning Mitigated - 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	0.0000	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	0.0214	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	0.0214	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 Facilities Decommissioning Mitigated - 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	0.0214					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	0.0214	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	0.0000					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	0.0214	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 Facilities Decommissioning Mitigated - 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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

Boulder Brush Facilities Decommissioning 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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

Project Characteristics - Unmitigated Boulder Brush Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Architectural Coating - Decommissioning emissions only.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Dust control measures PDF.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	NumDays	100.00	85.00
tblConstructionPhase	PhaseEndDate	6/22/2050	6/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	5/1/2050

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

tblTripsAndVMT	WorkerTripNumber	0.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2050	0.1565	0.3686	1.4073	4.5600e-003	0.0876	9.3300e-003	0.0970	0.0233	9.3200e-003	0.0326	0.0000	434.5605	434.5605	0.0127	0.0000	434.8785
Maximum	0.1565	0.3686	1.4073	4.5600e-003	0.0876	9.3300e-003	0.0970	0.0233	9.3200e-003	0.0326	0.0000	434.5605	434.5605	0.0127	0.0000	434.8785

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					
2050	0.1565	0.3686	1.4073	4.5600e-003	0.0876	9.3300e-003	0.0970	0.0233	9.3200e-003	0.0326	0.0000	434.5601	434.5601	0.0127	0.0000	434.8781
Maximum	0.1565	0.3686	1.4073	4.5600e-003	0.0876	9.3300e-003	0.0970	0.0233	9.3200e-003	0.0326	0.0000	434.5601	434.5601	0.0127	0.0000	434.8781

[illegible]

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2050	3-31-2050	0.3842	0.3842
2	4-1-2050	6-30-2050	0.1501	0.1501
		Highest	0.3842	0.3842

2.2 Overall Operational

Unmitigated Operational

[illegible]

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					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	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	System disassembly and removal	Building Construction	1/1/2050	5/1/2050	5	85	
2	Site cleanup and restoration	Architectural Coating	5/1/2050	6/1/2050	5	23	

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
System disassembly and removal	Generator Sets	1	8.00	84	0.74
System disassembly and removal	Off-Highway Trucks	4	8.00	402	0.38
System disassembly and removal	Other Construction Equipment	2	8.00	172	0.42
System disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
System disassembly and removal	Rough Terrain Forklifts	2	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	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
Site cleanup and restoration	2	48.00	0.00	0.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT
System disassembly and removal	10	96.00	0.00	30.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

3.2 System disassembly and removal - 2050**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	0.1419	0.3434	1.2796	3.8900e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	373.5140	373.5140	0.0114	0.0000	373.7980
Total	0.1419	0.3434	1.2796	3.8900e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	373.5140	373.5140	0.0114	0.0000	373.7980

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	2.2000e-004	4.4600e-003	3.3200e-003	4.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	3.7376	3.7376	3.4000e-004	0.0000	3.7461
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	9.2600e-003	7.1800e-003	0.0789	4.5000e-004	0.0763	1.6000e-004	0.0765	0.0203	1.4000e-004	0.0204	0.0000	41.2339	41.2339	6.1000e-004	0.0000	41.2491
Total	9.4800e-003	0.0116	0.0823	4.9000e-004	0.0773	1.7000e-004	0.0775	0.0206	1.5000e-004	0.0207	0.0000	44.9715	44.9715	9.5000e-004	0.0000	44.9953

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

3.2 System disassembly and removal - 2050**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	0.1419	0.3434	1.2796	3.8900e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	373.5136	373.5136	0.0114	0.0000	373.7976
Total	0.1419	0.3434	1.2796	3.8900e-003		8.8800e-003	8.8800e-003		8.8800e-003	8.8800e-003	0.0000	373.5136	373.5136	0.0114	0.0000	373.7976

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	2.2000e-004	4.4600e-003	3.3200e-003	4.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	3.7376	3.7376	3.4000e-004	0.0000	3.7461
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	9.2600e-003	7.1800e-003	0.0789	4.5000e-004	0.0763	1.6000e-004	0.0765	0.0203	1.4000e-004	0.0204	0.0000	41.2339	41.2339	6.1000e-004	0.0000	41.2491
Total	9.4800e-003	0.0116	0.0823	4.9000e-004	0.0773	1.7000e-004	0.0775	0.0206	1.5000e-004	0.0207	0.0000	44.9715	44.9715	9.5000e-004	0.0000	44.9953

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3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9400e-003	0.0126	0.0348	1.2000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5045
Total	3.9400e-003	0.0126	0.0348	1.2000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5045

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	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808
Total	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9400e-003	0.0126	0.0348	1.2000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5044
Total	3.9400e-003	0.0126	0.0348	1.2000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	10.4964	10.4964	3.2000e-004	0.0000	10.5044

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	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808
Total	1.2500e-003	9.7000e-004	0.0107	6.0000e-005	0.0103	2.0000e-005	0.0103	2.7400e-003	2.0000e-005	2.7600e-003	0.0000	5.5787	5.5787	8.0000e-005	0.0000	5.5808

4.0 Operational Detail - Mobile

Boulder Brush Facilities Decommissioning Unmitigated - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Boulder Brush Facilities Decommissioning Unmitigated - 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

[illegible]

6.2 Area by SubCategory

Unmitigated

[illegible]

Boulder Brush Facilities Decommissioning Unmitigated - 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	0.0000					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		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail**7.1 Mitigation Measures Water**

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities Decommissioning 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities Decommissioning 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Boulder Brush Facilities Decommissioning Unmitigated - 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
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11.0 Vegetation

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

Boulder Brush Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

Project Characteristics - Unmitigated Boulder Brush Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Architectural Coating - Decommissioning emissions only.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Dust control measures PDF.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	NumDays	100.00	85.00
tblConstructionPhase	PhaseEndDate	6/22/2050	6/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	5/1/2050

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

tblTripsAndVMT	WorkerTripNumber	0.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Decommissioning 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					
2050	3.9987	9.5043	36.2879	0.1199	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,484.7151	12,484.7151	0.3599	0.0000	12,493.7135
Maximum	3.9987	9.5043	36.2879	0.1199	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,484.7151	12,484.7151	0.3599	0.0000	12,493.7135

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					
2050	3.9987	9.5043	36.2879	0.1199	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,484.7151	12,484.7151	0.3599	0.0000	12,493.7135
Maximum	3.9987	9.5043	36.2879	0.1199	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,484.7151	12,484.7151	0.3599	0.0000	12,493.7135

[illegible]

Boulder Brush Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities Decommissioning 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	System disassembly and removal	Building Construction	1/1/2050	5/1/2050	5	85	
2	Site cleanup and restoration	Architectural Coating	5/1/2050	6/1/2050	5	23	

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
System disassembly and removal	Generator Sets	1	8.00	84	0.74
System disassembly and removal	Off-Highway Trucks	4	8.00	402	0.38
System disassembly and removal	Other Construction Equipment	2	8.00	172	0.42
System disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
System disassembly and removal	Rough Terrain Forklifts	2	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

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
Site cleanup and restoration	2	48.00	0.00	0.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT
System disassembly and removal	10	96.00	0.00	30.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 System disassembly and removal - 2050**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	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013
Total	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

3.2 System disassembly and removal - 2050**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	5.2000e-003	0.1021	0.0782	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		97.1326	97.1326	8.8400e-003		97.3535
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	0.2088	0.1537	2.0530	0.0113	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,129.1580	1,129.1580	0.0170		1,129.5828
Total	0.2140	0.2558	2.1312	0.0122	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,226.2906	1,226.2906	0.0258		1,226.9363

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	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089	0.0000	9,687.7345	9,687.7345	0.2947		9,695.1012
Total	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089	0.0000	9,687.7345	9,687.7345	0.2947		9,695.1012

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

3.2 System disassembly and removal - 2050**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	5.2000e-003	0.1021	0.0782	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		97.1326	97.1326	8.8400e-003		97.3535
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	0.2088	0.1537	2.0530	0.0113	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,129.1580	1,129.1580	0.0170		1,129.5828
Total	0.2140	0.2558	2.1312	0.0122	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,226.2906	1,226.2906	0.0258		1,226.9363

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914
Total	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914
Total	0.1044	0.0768	1.0265	5.6500e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		564.5790	564.5790	8.5000e-003		564.7914

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

Boulder Brush Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Facilities Decommissioning 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	0.0000	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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Boulder Brush Facilities Decommissioning 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	0.0000	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	0.0214	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	0.0214	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 Facilities Decommissioning 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	0.0000					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	0.0214	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	0.0000					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	0.0214	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 Facilities Decommissioning 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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

Boulder Brush Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

Project Characteristics - Unmitigated Boulder Brush Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Architectural Coating - Decommissioning emissions only.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Dust control measures PDF.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	NumDays	100.00	85.00
tblConstructionPhase	PhaseEndDate	6/22/2050	6/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	5/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	5/1/2050

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripLength	20.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

tblTripsAndVMT	WorkerTripNumber	0.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Decommissioning 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					
2050	4.0655	9.5332	35.9513	0.1188	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,378.5249	12,378.5249	0.3579	0.0000	12,387.4724
Maximum	4.0655	9.5332	35.9513	0.1188	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,378.5249	12,378.5249	0.3579	0.0000	12,387.4724

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					
2050	4.0655	9.5332	35.9513	0.1188	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,378.5249	12,378.5249	0.3579	0.0000	12,387.4724
Maximum	4.0655	9.5332	35.9513	0.1188	2.7829	0.2378	3.0207	0.7381	0.2373	0.9755	0.0000	12,378.5249	12,378.5249	0.3579	0.0000	12,387.4724

[illegible]

Boulder Brush Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Boulder Brush Facilities Decommissioning 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	System disassembly and removal	Building Construction	1/1/2050	5/1/2050	5	85	
2	Site cleanup and restoration	Architectural Coating	5/1/2050	6/1/2050	5	23	

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
System disassembly and removal	Generator Sets	1	8.00	84	0.74
System disassembly and removal	Off-Highway Trucks	4	8.00	402	0.38
System disassembly and removal	Other Construction Equipment	2	8.00	172	0.42
System disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
System disassembly and removal	Rough Terrain Forklifts	2	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

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
Site cleanup and restoration	2	48.00	0.00	0.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT
System disassembly and removal	10	96.00	0.00	30.00	25.20	0.00	80.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 System disassembly and removal - 2050**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	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013
Total	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089		9,687.7345	9,687.7345	0.2947		9,695.1013

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

3.2 System disassembly and removal - 2050**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	5.2400e-003	0.1044	0.0785	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		96.6765	96.6765	8.8800e-003		96.8985
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	0.2533	0.1714	1.8284	0.0106	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,058.6686	1,058.6686	0.0156		1,059.0588
Total	0.2585	0.2758	1.9069	0.0115	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,155.3451	1,155.3451	0.0245		1,155.9572

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	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089	0.0000	9,687.7345	9,687.7345	0.2947		9,695,1012
Total	3.3378	8.0802	30.1076	0.0915		0.2089	0.2089		0.2089	0.2089	0.0000	9,687.7345	9,687.7345	0.2947		9,695,1012

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

3.2 System disassembly and removal - 2050**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	5.2400e-003	0.1044	0.0785	8.6000e-004	0.0247	3.2000e-004	0.0250	6.7500e-003	3.1000e-004	7.0600e-003		96.6765	96.6765	8.8800e-003		96.8985
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	0.2533	0.1714	1.8284	0.0106	1.8388	3.7000e-003	1.8425	0.4876	3.4000e-003	0.4910		1,058.6686	1,058.6686	0.0156		1,059.0588
Total	0.2585	0.2758	1.9069	0.0115	1.8635	4.0200e-003	1.8675	0.4943	3.7100e-003	0.4980		1,155.3451	1,155.3451	0.0245		1,155.9572

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294
Total	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Boulder Brush Facilities Decommissioning Unmitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294
Total	0.1267	0.0857	0.9142	5.3000e-003	0.9194	1.8500e-003	0.9213	0.2438	1.7000e-003	0.2455		529.3343	529.3343	7.8000e-003		529.5294

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

Boulder Brush Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Boulder Brush Facilities Decommissioning 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	0.0000	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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Boulder Brush Facilities Decommissioning 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	0.0000	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	0.0214	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	0.0214	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 Facilities Decommissioning 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	0.0000					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	0.0214	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	0.0000					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	0.0214	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 Facilities Decommissioning 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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

Campo Wind Facilities 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/MWhr)	720.49	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 - Mitigated construction only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - Implementation of mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0

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[illegible]

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	PhaseEndDate	6/6/2022	3/28/2020
tblConstructionPhase	PhaseEndDate	8/5/2019	11/26/2019
tblConstructionPhase	PhaseStartDate	8/6/2019	12/22/2019
tblConstructionPhase	PhaseStartDate	4/23/2019	9/1/2019
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

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tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Trenchers
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
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tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	UsageHours	8.00	7.00
tbloffRoadEquipment	UsageHours	8.00	6.00

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tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
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tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00

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tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
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tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
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	WorkerTripNumber	787.00	24.00

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tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.8272	9.7049	4.5844	0.0157	2.2999	0.3478	2.6476	0.9709	0.3226	1.2934	0.0000	1,453.590 3	1,453.590 3	0.2481	0.0000	1,459.791 8
2020	1.8646	16.5921	12.2630	0.0336	1.5799	0.7088	2.2887	0.5870	0.6705	1.2575	0.0000	3,017.042 0	3,017.042 0	0.4436	0.0000	3,028.131 4
Maximum	1.8646	16.5921	12.2630	0.0336	2.2999	0.7088	2.6476	0.9709	0.6705	1.2934	0.0000	3,017.042 0	3,017.042 0	0.4436	0.0000	3,028.131 4

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	0.2430	2.5026	4.6216	0.0157	1.1301	0.0340	1.1641	0.4422	0.0330	0.4752	0.0000	1,453.589 4	1,453.589 4	0.2481	0.0000	1,459.791 0
2020	0.6103	3.8126	13.0206	0.0336	1.2263	0.0451	1.2715	0.3926	0.0442	0.4368	0.0000	3,017.040 1	3,017.040 1	0.4436	0.0000	3,028.129 5
Maximum	0.6103	3.8126	13.0206	0.0336	1.2263	0.0451	1.2715	0.4422	0.0442	0.4752	0.0000	3,017.040 1	3,017.040 1	0.4436	0.0000	3,028.129 5

	ROG	NOx	CO	SO2	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	68.30	75.99	-4.72	0.00	39.26	92.51	50.66	46.41	92.22	64.25	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)
3	7-1-2019	9-30-2019	2.5633	0.7494
4	10-1-2019	12-31-2019	7.9714	1.9836
5	1-1-2020	3-31-2020	9.5341	2.6566
6	4-1-2020	6-30-2020	7.8730	1.5003
7	7-1-2020	9-30-2020	1.0154	0.2463
		Highest	9.5341	2.6566

2.2 Overall Operational

Unmitigated Operational

[illegible]

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1250					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	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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 Facilities Construction Mitigated - San Diego County, Annual

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 of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Operations and maintenance facility	Welders	1	8.00	46	0.45
Clearing and grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Wind turbine foundation construction	Air Compressors	3	8.00	78	0.48
Wind turbine foundation construction	Pumps	1	8.00	84	0.74

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Construction of access roads	Rubber Tired Loaders	7	8.00	203	0.36
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
Wind turbine erection	Air Compressors	2	8.00	78	0.48
Wind turbine erection	Pumps	2	8.00	84	0.74
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Pumps	1	8.00	84	0.74
Meteorological towers	Cranes	1	7.00	231	0.29
Wind turbine erection	Cranes	19	7.00	231	0.29
Construction of collector substation	Cranes	1	7.00	231	0.29
Wind turbine foundation construction	Generator Sets	3	8.00	84	0.74
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Clearing and grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and grading	Graders	3	8.00	187	0.41
Clearing and grading	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Meteorological towers	Generator Sets	2	8.00	84	0.74
Wind turbine erection	Generator Sets	3	8.00	84	0.74
Construction of collector substation	Generator Sets	2	8.00	84	0.74
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of access roads	Scrapers	3	8.00	367	0.48
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45
Wind turbine erection	Welders	7	8.00	46	0.45
Construction of collector substation	Welders	2	8.00	46	0.45
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45

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
Meteorological towers	5	24.00	4.00	4.00	25.00	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	15	72.00	108.00	734.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	25.20	47.00	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					1.9177	0.0000	1.9177	0.8667	0.0000	0.8667	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	1.9177	0.2214	2.1391	0.8667	0.2044	1.0712	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	0.0702	1.5520	0.4114	4.9100e-003	0.1426	0.0177	0.1603	0.0411	0.0169	0.0580	0.0000	477.1233	477.1233	0.0257	0.0000	477.7658
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	0.0957	1.8316	0.6090	6.1200e-003	0.2032	0.0191	0.2223	0.0574	0.0183	0.0757	0.0000	594.0897	594.0897	0.0331	0.0000	594.9181

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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					0.7479	0.0000	0.7479	0.3380	0.0000	0.3380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0530	0.2296	1.9972	4.3600e-003		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	390.9134	390.9134	0.1193	0.0000	393.8954
Total	0.0530	0.2296	1.9972	4.3600e-003	0.7479	7.0600e-003	0.7550	0.3380	7.0600e-003	0.3451	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	0.0702	1.5520	0.4114	4.9100e-003	0.1426	0.0177	0.1603	0.0411	0.0169	0.0580	0.0000	477.1233	477.1233	0.0257	0.0000	477.7658
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	0.0957	1.8316	0.6090	6.1200e-003	0.2032	0.0191	0.2223	0.0574	0.0183	0.0757	0.0000	594.0897	594.0897	0.0331	0.0000	594.9181

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3.3 Construction of 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	0.2010	2.4353	1.2058	3.0000e-003		0.0890	0.0890		0.0819	0.0819	0.0000	269.0409	269.0409	0.0851	0.0000	271.1689
Total	0.2010	2.4353	1.2058	3.0000e-003	0.0000	0.0890	0.0890	0.0000	0.0819	0.0819	0.0000	269.0409	269.0409	0.0851	0.0000	271.1689

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 of 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	0.0370	0.1602	1.3552	3.0000e-003		4.9300e-003	4.9300e-003		4.9300e-003	4.9300e-003	0.0000	269.0406	269.0406	0.0851	0.0000	271.1686
Total	0.0370	0.1602	1.3552	3.0000e-003	0.0000	4.9300e-003	4.9300e-003	0.0000	4.9300e-003	4.9300e-003	0.0000	269.0406	269.0406	0.0851	0.0000	271.1686

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 of 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					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	0.1767	2.0877	1.0673	2.8200e-003		0.0758	0.0758		0.0697	0.0697	0.0000	247.4236	247.4236	0.0800	0.0000	249.4242
Total	0.1767	2.0877	1.0673	2.8200e-003	0.0000	0.0758	0.0758	0.0000	0.0697	0.0697	0.0000	247.4236	247.4236	0.0800	0.0000	249.4242

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 of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.1506	1.2743	2.8200e-003		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	247.4234	247.4234	0.0800	0.0000	249.4239
Total	0.0348	0.1506	1.2743	2.8200e-003	0.0000	4.6300e-003	4.6300e-003	0.0000	4.6300e-003	4.6300e-003	0.0000	247.4234	247.4234	0.0800	0.0000	249.4239

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 Gen-tie 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	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615
Total	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615

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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	2.5200e-003	0.0556	0.0147	1.8000e-004	5.1100e-003	6.3000e-004	5.7400e-003	1.4700e-003	6.1000e-004	2.0800e-003	0.0000	17.1012	17.1012	9.2000e-004	0.0000	17.1242
Worker	8.9400e-003	7.5400e-003	0.0699	2.2000e-004	0.0215	1.5000e-004	0.0217	5.7200e-003	1.4000e-004	5.8600e-003	0.0000	19.7943	19.7943	6.0000e-004	0.0000	19.8094
Total	0.0118	0.0740	0.0872	4.3000e-004	0.0274	8.3000e-004	0.0283	7.4000e-003	8.0000e-004	8.2000e-003	0.0000	40.1086	40.1086	1.7800e-003	0.0000	40.1532

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3.4 Gen-tie 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	2.9800e-003	0.0215	0.1709	2.7000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614
Total	2.9800e-003	0.0215	0.1709	2.7000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614

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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	2.5200e-003	0.0556	0.0147	1.8000e-004	5.1100e-003	6.3000e-004	5.7400e-003	1.4700e-003	6.1000e-004	2.0800e-003	0.0000	17.1012	17.1012	9.2000e-004	0.0000	17.1242
Worker	8.9400e-003	7.5400e-003	0.0699	2.2000e-004	0.0215	1.5000e-004	0.0217	5.7200e-003	1.4000e-004	5.8600e-003	0.0000	19.7943	19.7943	6.0000e-004	0.0000	19.8094
Total	0.0118	0.0740	0.0872	4.3000e-004	0.0274	8.3000e-004	0.0283	7.4000e-003	8.0000e-004	8.2000e-003	0.0000	40.1086	40.1086	1.7800e-003	0.0000	40.1532

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

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	1.4700e-003	0.0325	8.6000e-003	1.0000e-004	2.9800e-003	3.7000e-004	3.3500e-003	8.6000e-004	3.5000e-004	1.2100e-003	0.0000	9.9757	9.9757	5.4000e-004	0.0000	9.9891
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	9.4200e-003	0.1463	0.0701	5.4000e-004	0.0747	9.5000e-004	0.0756	0.0189	8.9000e-004	0.0198	0.0000	52.7032	52.7032	3.4500e-003	0.0000	52.7893

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

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	1.3400e-003	5.7900e-003	0.0824	1.3000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077
Total	1.3400e-003	5.7900e-003	0.0824	1.3000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	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	1.4700e-003	0.0325	8.6000e-003	1.0000e-004	2.9800e-003	3.7000e-004	3.3500e-003	8.6000e-004	3.5000e-004	1.2100e-003	0.0000	9.9757	9.9757	5.4000e-004	0.0000	9.9891
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	9.4200e-003	0.1463	0.0701	5.4000e-004	0.0747	9.5000e-004	0.0756	0.0189	8.9000e-004	0.0198	0.0000	52.7032	52.7032	3.4500e-003	0.0000	52.7893

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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	0.0103	0.2524	0.0688	9.1000e-004	0.0268	2.1200e-003	0.0290	7.7400e-003	2.0300e-003	9.7600e-003	0.0000	88.9801	88.9801	4.6900e-003	0.0000	89.0973
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	0.0767	1.1922	0.5913	4.8000e-003	0.2020	6.3200e-003	0.2083	0.0548	6.0200e-003	0.0608	0.0000	467.1030	467.1030	0.0306	0.0000	467.8673

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

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	0.0120	0.0521	0.7420	1.2000e-003		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	103.3870	103.3870	6.5600e-003	0.0000	103.5511
Total	0.0120	0.0521	0.7420	1.2000e-003		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	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	0.0103	0.2524	0.0688	9.1000e-004	0.0268	2.1200e-003	0.0290	7.7400e-003	2.0300e-003	9.7600e-003	0.0000	88.9801	88.9801	4.6900e-003	0.0000	89.0973
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	0.0767	1.1922	0.5913	4.8000e-003	0.2020	6.3200e-003	0.2083	0.0548	6.0200e-003	0.0608	0.0000	467.1030	467.1030	0.0306	0.0000	467.8673

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.6 Gen-tie 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	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	1.0000e-005	3.0000e-004	7.0000e-005	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0893	0.0893	1.0000e-005	0.0000	0.0894
Vendor	1.0000e-004	2.3200e-003	6.1000e-004	1.0000e-005	2.1000e-004	3.0000e-005	2.4000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.7126	0.7126	4.0000e-005	0.0000	0.7135
Worker	2.8000e-004	2.4000e-004	2.1900e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6186	0.6186	2.0000e-005	0.0000	0.6190
Total	3.9000e-004	2.8600e-003	2.8700e-003	2.0000e-005	1.2700e-003	3.0000e-005	1.3100e-003	3.4000e-004	3.0000e-005	3.7000e-004	0.0000	1.4204	1.4204	7.0000e-005	0.0000	1.4220

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.6 Gen-tie 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	4.0000e-005	5.1000e-004	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	4.0000e-005	5.1000e-004	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	1.0000e-005	3.0000e-004	7.0000e-005	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0893	0.0893	1.0000e-005	0.0000	0.0894
Vendor	1.0000e-004	2.3200e-003	6.1000e-004	1.0000e-005	2.1000e-004	3.0000e-005	2.4000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.7126	0.7126	4.0000e-005	0.0000	0.7135
Worker	2.8000e-004	2.4000e-004	2.1900e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6186	0.6186	2.0000e-005	0.0000	0.6190
Total	3.9000e-004	2.8600e-003	2.8700e-003	2.0000e-005	1.2700e-003	3.0000e-005	1.3100e-003	3.4000e-004	3.0000e-005	3.7000e-004	0.0000	1.4204	1.4204	7.0000e-005	0.0000	1.4220

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.6 Gen-tie 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	1.9000e-004	6.3500e-003	1.6000e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.0280	2.0280	1.6000e-004	0.0000	2.0321
Vendor	1.8900e-003	0.0461	0.0126	1.7000e-004	4.9000e-003	3.9000e-004	5.2800e-003	1.4100e-003	3.7000e-004	1.7800e-003	0.0000	16.2424	16.2424	8.6000e-004	0.0000	16.2638
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0155	1.0000e-004	0.0156	4.1100e-003	1.0000e-004	4.2100e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.1000e-003	0.0573	0.0602	3.4000e-004	0.0209	5.1000e-004	0.0214	5.6600e-003	4.9000e-004	6.1500e-003	0.0000	32.0479	32.0479	1.4100e-003	0.0000	32.0832

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.6 Gen-tie 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	8.4000e-004	0.0118	0.0397	7.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332
Total	8.4000e-004	0.0118	0.0397	7.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	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	1.9000e-004	6.3500e-003	1.6000e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.0280	2.0280	1.6000e-004	0.0000	2.0321
Vendor	1.8900e-003	0.0461	0.0126	1.7000e-004	4.9000e-003	3.9000e-004	5.2800e-003	1.4100e-003	3.7000e-004	1.7800e-003	0.0000	16.2424	16.2424	8.6000e-004	0.0000	16.2638
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0155	1.0000e-004	0.0156	4.1100e-003	1.0000e-004	4.2100e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.1000e-003	0.0573	0.0602	3.4000e-004	0.0209	5.1000e-004	0.0214	5.6600e-003	4.9000e-004	6.1500e-003	0.0000	32.0479	32.0479	1.4100e-003	0.0000	32.0832

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3.7 Construction of underground electrical collection system - 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	0.2196	2.1834	1.3364	2.0600e-003		0.1298	0.1298		0.1195	0.1195	0.0000	181.4319	181.4319	0.0587	0.0000	182.8988
Total	0.2196	2.1834	1.3364	2.0600e-003	0.5796	0.1298	0.7095	0.3186	0.1195	0.4381	0.0000	181.4319	181.4319	0.0587	0.0000	182.8988

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	0.0108	0.2644	0.0720	9.6000e-004	0.0281	2.2200e-003	0.0303	8.1100e-003	2.1200e-003	0.0102	0.0000	93.2173	93.2173	4.9100e-003	0.0000	93.3401
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	0.1106	0.4644	0.8364	3.7800e-003	0.2844	4.3600e-003	0.2887	0.0763	4.1000e-003	0.0804	0.0000	351.7957	351.7957	0.0143	0.0000	352.1533

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.7 Construction of underground electrical collection system - 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	0.0253	0.1095	1.3063	2.0600e-003		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	181.4317	181.4317	0.0587	0.0000	182.8986
Total	0.0253	0.1095	1.3063	2.0600e-003	0.2261	3.3700e-003	0.2294	0.1243	3.3700e-003	0.1276	0.0000	181.4317	181.4317	0.0587	0.0000	182.8986

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	0.0108	0.2644	0.0720	9.6000e-004	0.0281	2.2200e-003	0.0303	8.1100e-003	2.1200e-003	0.0102	0.0000	93.2173	93.2173	4.9100e-003	0.0000	93.3401
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	0.1106	0.4644	0.8364	3.7800e-003	0.2844	4.3600e-003	0.2887	0.0763	4.1000e-003	0.0804	0.0000	351.7957	351.7957	0.0143	0.0000	352.1533

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

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

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	7.3200e-003	0.2386	0.0600	7.7000e-004	0.0185	9.3000e-004	0.0194	5.0700e-003	8.9000e-004	5.9600e-003	0.0000	76.1831	76.1831	6.1400e-003	0.0000	76.3366
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	0.0650	0.2854	0.5002	2.2300e-003	0.1666	1.9300e-003	0.1685	0.0444	1.8100e-003	0.0462	0.0000	207.9673	207.9673	9.8900e-003	0.0000	208.2146

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

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	tons/yr										MT/yr					
Off-Road	0.1041	0.7647	4.3373	8.5000e-003		0.0128	0.0128		0.0128	0.0128	0.0000	728.8638	728.8638	0.1725	0.0000	733.1761
Total	0.1041	0.7647	4.3373	8.5000e-003		0.0128	0.0128		0.0128	0.0128	0.0000	728.8638	728.8638	0.1725	0.0000	733.1761

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	7.3200e-003	0.2386	0.0600	7.7000e-004	0.0185	9.3000e-004	0.0194	5.0700e-003	8.9000e-004	5.9600e-003	0.0000	76.1831	76.1831	6.1400e-003	0.0000	76.3366
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	0.0650	0.2854	0.5002	2.2300e-003	0.1666	1.9300e-003	0.1685	0.0444	1.8100e-003	0.0462	0.0000	207.9673	207.9673	9.8900e-003	0.0000	208.2146

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.9 Operations and maintenance facility - 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	5.0800e-003	0.1242	0.0338	4.5000e-004	0.0132	1.0400e-003	0.0143	3.8100e-003	1.0000e-003	4.8000e-003	0.0000	43.7839	43.7839	2.3100e-003	0.0000	43.8415
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	0.0730	0.1858	0.5524	2.1800e-003	0.1876	2.2400e-003	0.1899	0.0501	2.1000e-003	0.0522	0.0000	200.6468	200.6468	6.8900e-003	0.0000	200.8188

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.9 Operations and maintenance facility - 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	5.0800e-003	0.1242	0.0338	4.5000e-004	0.0132	1.0400e-003	0.0143	3.8100e-003	1.0000e-003	4.8000e-003	0.0000	43.7839	43.7839	2.3100e-003	0.0000	43.8415
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	0.0730	0.1858	0.5524	2.1800e-003	0.1876	2.2400e-003	0.1899	0.0501	2.1000e-003	0.0522	0.0000	200.6468	200.6468	6.8900e-003	0.0000	200.8188

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.10 Construction of collector substation - 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	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388
Total	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388

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	1.4000e-003	0.0457	0.0115	1.5000e-004	3.5400e-003	1.8000e-004	3.7200e-003	9.7000e-004	1.7000e-004	1.1400e-003	0.0000	14.6018	14.6018	1.1800e-003	0.0000	14.6312
Vendor	2.7000e-003	0.0661	0.0180	2.4000e-004	7.0300e-003	5.6000e-004	7.5800e-003	2.0300e-003	5.3000e-004	2.5600e-003	0.0000	23.3043	23.3043	1.2300e-003	0.0000	23.3350
Worker	0.0192	0.0156	0.1467	4.9000e-004	0.0494	3.3000e-004	0.0497	0.0131	3.1000e-004	0.0134	0.0000	43.9281	43.9281	1.2500e-003	0.0000	43.9594
Total	0.0233	0.1275	0.1762	8.8000e-004	0.0599	1.0700e-003	0.0610	0.0161	1.0100e-003	0.0171	0.0000	81.8342	81.8342	3.6600e-003	0.0000	81.9255

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.10 Construction of collector substation - 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	0.0268	0.2055	1.4316	2.3100e-003		3.2400e-003	3.2400e-003		3.2400e-003	3.2400e-003	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385
Total	0.0268	0.2055	1.4316	2.3100e-003		3.2400e-003	3.2400e-003		3.2400e-003	3.2400e-003	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385

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	1.4000e-003	0.0457	0.0115	1.5000e-004	3.5400e-003	1.8000e-004	3.7200e-003	9.7000e-004	1.7000e-004	1.1400e-003	0.0000	14.6018	14.6018	1.1800e-003	0.0000	14.6312
Vendor	2.7000e-003	0.0661	0.0180	2.4000e-004	7.0300e-003	5.6000e-004	7.5800e-003	2.0300e-003	5.3000e-004	2.5600e-003	0.0000	23.3043	23.3043	1.2300e-003	0.0000	23.3350
Worker	0.0192	0.0156	0.1467	4.9000e-004	0.0494	3.3000e-004	0.0497	0.0131	3.1000e-004	0.0134	0.0000	43.9281	43.9281	1.2500e-003	0.0000	43.9594
Total	0.0233	0.1275	0.1762	8.8000e-004	0.0599	1.0700e-003	0.0610	0.0161	1.0100e-003	0.0171	0.0000	81.8342	81.8342	3.6600e-003	0.0000	81.9255

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.11 Meteorological 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	4.0000e-005	1.3300e-003	3.3000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4232	0.4232	3.0000e-005	0.0000	0.4241
Vendor	8.2000e-004	0.0200	5.4600e-003	7.0000e-005	2.1300e-003	1.7000e-004	2.3000e-003	6.1000e-004	1.6000e-004	7.7000e-004	0.0000	7.0619	7.0619	3.7000e-004	0.0000	7.0712
Worker	2.1700e-003	1.7600e-003	0.0166	5.0000e-005	5.5600e-003	4.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.9527	4.9527	1.4000e-004	0.0000	4.9562
Total	3.0300e-003	0.0231	0.0223	1.2000e-004	7.7900e-003	2.2000e-004	8.0100e-003	2.1200e-003	1.9000e-004	2.3100e-003	0.0000	12.4379	12.4379	5.4000e-004	0.0000	12.4515

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

3.11 Meteorological 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	4.0000e-005	1.3300e-003	3.3000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4232	0.4232	3.0000e-005	0.0000	0.4241
Vendor	8.2000e-004	0.0200	5.4600e-003	7.0000e-005	2.1300e-003	1.7000e-004	2.3000e-003	6.1000e-004	1.6000e-004	7.7000e-004	0.0000	7.0619	7.0619	3.7000e-004	0.0000	7.0712
Worker	2.1700e-003	1.7600e-003	0.0166	5.0000e-005	5.5600e-003	4.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.9527	4.9527	1.4000e-004	0.0000	4.9562
Total	3.0300e-003	0.0231	0.0223	1.2000e-004	7.7900e-003	2.2000e-004	8.0100e-003	2.1200e-003	1.9000e-004	2.3100e-003	0.0000	12.4379	12.4379	5.4000e-004	0.0000	12.4515

4.0 Operational Detail - Mobile

Campo Wind Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Wind Facilities 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

[illegible]

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

[illegible]

6.2 Area by SubCategory

Unmitigated

[illegible]

Campo Wind Facilities 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	0.0000					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						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail**7.1 Mitigation Measures Water**

Campo Wind Facilities Construction Mitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities 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 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Campo Wind Facilities 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
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Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

Campo Wind Facilities 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/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

Project Characteristics - Mitigated construction only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - Implementation of mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

[illegible]

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	PhaseEndDate	6/6/2022	3/28/2020
tblConstructionPhase	PhaseEndDate	8/5/2019	11/26/2019
tblConstructionPhase	PhaseStartDate	8/6/2019	12/22/2019
tblConstructionPhase	PhaseStartDate	4/23/2019	9/1/2019
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Trenchers
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	UsageHours	8.00	7.00
tbloffRoadEquipment	UsageHours	8.00	6.00

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
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	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	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
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	WorkerTripNumber	787.00	24.00

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities 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	27.1572	309.9527	153.7294	0.5129	73.2041	11.3959	84.5999	31.0879	10.5939	41.6817	0.0000	52,363.0202	52,363.0202	8.6601	0.0000	52,579.5215
2020	36.9970	342.0290	249.8007	0.7159	32.1435	14.0450	45.4454	11.5875	13.2797	24.6636	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179
Maximum	36.9970	342.0290	249.8007	0.7159	73.2041	14.0450	84.5999	31.0879	13.2797	41.6817	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179

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	7.9917	78.0007	154.6975	0.5129	35.4691	1.1068	36.5760	14.0326	1.0751	15.1078	0.0000	52,363.0202	52,363.0202	8.6601	0.0000	52,579.5215
2020	12.2162	82.7753	266.5761	0.7159	25.7149	0.9526	26.6412	8.0539	0.9325	8.9588	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179
Maximum	12.2162	82.7753	266.5761	0.7159	35.4691	1.1068	36.5760	14.0326	1.0751	15.1078	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179

	ROG	NOx	CO	SO2	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	68.50	75.34	-4.40	0.00	41.92	91.91	51.39	48.25	91.59	63.73	0.00	0.00	0.00	0.00	0.00	0.00

Campo Wind Facilities 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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

Campo Wind Facilities 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 of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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 Wind Facilities Construction Mitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Operations and maintenance facility	Welders	1	8.00	46	0.45
Clearing and grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Wind turbine foundation construction	Air Compressors	3	8.00	78	0.48
Wind turbine foundation construction	Pumps	1	8.00	84	0.74
Construction of access roads	Rubber Tired Loaders	7	8.00	203	0.36
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
Wind turbine erection	Air Compressors	2	8.00	78	0.48
Wind turbine erection	Pumps	2	8.00	84	0.74
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Pumps	1	8.00	84	0.74
Meteorological towers	Cranes	1	7.00	231	0.29
Wind turbine erection	Cranes	19	7.00	231	0.29
Construction of collector substation	Cranes	1	7.00	231	0.29
Wind turbine foundation construction	Generator Sets	3	8.00	84	0.74
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Clearing and grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and grading	Graders	3	8.00	187	0.41
Clearing and grading	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Meteorological towers	Generator Sets	2	8.00	84	0.74
Wind turbine erection	Generator Sets	3	8.00	84	0.74

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

Construction of collector substation	Generator Sets	2	8.00	84	0.74
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of access roads	Scrapers	3	8.00	367	0.48
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45
Wind turbine erection	Welders	7	8.00	46	0.45
Construction of collector substation	Welders	2	8.00	46	0.45
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45

Trips and VMT

Campo Wind Facilities 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
Meteorological towers	5	24.00	4.00	4.00	25.00	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	15	72.00	108.00	734.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	25.20	47.00	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

Campo Wind Facilities Construction Mitigated - 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					61.8606	0.0000	61.8606	27.9594	0.0000	27.9594			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	61.8606	7.1432	69.0037	27.9594	6.5943	34.5536		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	2.2549	48.5366	13.1606	0.1588	4.6918	0.5687	5.2605	1.3490	0.5440	1.8931		16,999.84 83	16,999.84 83	0.9079		17,022.54 60
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	3.0605	57.2571	19.8908	0.1989	6.6910	0.6163	7.3074	1.8846	0.5893	2.4739		21,241.64 15	21,241.64 15	1.1734		21,270.97 72

Campo Wind Facilities Construction Mitigated - 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					24.1256	0.0000	24.1256	10.9042	0.0000	10.9042			0.0000			0.0000
Off-Road	1.7092	7.4066	64.4256	0.1406		0.2279	0.2279		0.2279	0.2279	0.0000	13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	1.7092	7.4066	64.4256	0.1406	24.1256	0.2279	24.3535	10.9042	0.2279	11.1321	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	2.2549	48.5366	13.1606	0.1588	4.6918	0.5687	5.2605	1.3490	0.5440	1.8931		16,999.84 83	16,999.84 83	0.9079		17,022.54 60
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	3.0605	57.2571	19.8908	0.1989	6.6910	0.6163	7.3074	1.8846	0.5893	2.4739		21,241.64 15	21,241.64 15	1.1734		21,270.97 72

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.3 Construction of 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	6.0011	72.6949	35.9945	0.0894		2.6564	2.6564		2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634
Total	6.0011	72.6949	35.9945	0.0894	0.0000	2.6564	2.6564	0.0000	2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634

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

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.3 Construction of 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	1.1033	4.7810	40.4542	0.0894		0.1471	0.1471		0.1471	0.1471	0.0000	8,852.740 6	8,852.740 6	2.8009		8,922.763 4
Total	1.1033	4.7810	40.4542	0.0894	0.0000	0.1471	0.1471	0.0000	0.1471	0.1471	0.0000	8,852.740 6	8,852.740 6	2.8009		8,922.763 4

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 Wind Facilities Construction Mitigated - San Diego County, Summer

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	5.6104	66.2776	33.8810	0.0894		2.4049	2.4049		2.2125	2.2125		8,658.345 4	8,658.345 4	2.8003		8,728.352 5
Total	5.6104	66.2776	33.8810	0.0894	0.0000	2.4049	2.4049	0.0000	2.2125	2.2125		8,658.345 4	8,658.345 4	2.8003		8,728.352 5

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 Wind Facilities Construction Mitigated - San Diego County, Summer

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1033	4.7810	40.4542	0.0894		0.1471	0.1471		0.1471	0.1471	0.0000	8,658.345 4	8,658.345 4	2.8003		8,728.352 5
Total	1.1033	4.7810	40.4542	0.0894	0.0000	0.1471	0.1471	0.0000	0.1471	0.1471	0.0000	8,658.345 4	8,658.345 4	2.8003		8,728.352 5

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 Wind Facilities Construction Mitigated - San Diego County, Summer

3.4 Gen-tie 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	0.0277	0.8757	0.2099	2.7100e-003	0.0655	4.0600e-003	0.0695	0.0179	3.8800e-003	0.0218		295.9218	295.9218	0.0234		296.5065
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9611	5.9389	7.7516	0.0367	2.3387	0.0690	2.4078	0.6304	0.0656	0.6960		3,788.8189	3,788.8189	0.1661		3,792.9724

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.4 Gen-tie 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	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	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	0.0277	0.8757	0.2099	2.7100e-003	0.0655	4.0600e-003	0.0695	0.0179	3.8800e-003	0.0218		295.9218	295.9218	0.0234		296.5065
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9611	5.9389	7.7516	0.0367	2.3387	0.0690	2.4078	0.6304	0.0656	0.6960		3,788.8189	3,788.8189	0.1661		3,792.9724

Campo Wind Facilities Construction Mitigated - 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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.1201	3,148.1201	0.1681		3,152.3233
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	2.6493	40.4684	20.8091	0.1575	21.8994	0.2681	22.1675	5.5403	0.2557	5.7960		16,807.5439	16,807.5439	1.0850		16,834.6688

Campo Wind Facilities Construction Mitigated - 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	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092
Total	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.1201	3,148.1201	0.1681		3,152.3233
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	2.6493	40.4684	20.8091	0.1575	21.8994	0.2681	22.1675	5.5403	0.2557	5.7960		16,807.5439	16,807.5439	1.0850		16,834.6688

Campo Wind Facilities Construction Mitigated - 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	0.3260	7.7741	2.1648	0.0291	0.8688	0.0672	0.9360	0.2498	0.0643	0.3141		3,120.1363	3,120.1363	0.1630		3,124.2120
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	2.3952	36.6626	19.5110	0.1547	6.5578	0.2000	6.7578	1.7746	0.1906	1.9652		16,549.4592	16,549.4592	1.0695		16,576.1962

Campo Wind Facilities Construction Mitigated - 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	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726
Total	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	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	0.3260	7.7741	2.1648	0.0291	0.8688	0.0672	0.9360	0.2498	0.0643	0.3141		3,120.1363	3,120.1363	0.1630		3,124.2120
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	2.3952	36.6626	19.5110	0.1547	6.5578	0.2000	6.7578	1.7746	0.1906	1.9652		16,549.4592	16,549.4592	1.0695		16,576.1962

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0185	0.5838	0.1399	1.8100e-003	0.8039	2.7000e-003	0.8066	0.1986	2.5900e-003	0.2012		197.2812	197.2812	0.0156		197.6710
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7707	5.5047	6.1009	0.0310	2.6174	0.0646	2.6820	0.6892	0.0615	0.7506		3,210.4691	3,210.4691	0.1437		3,214.0608

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	0.0185	0.5838	0.1399	1.8100e-003	0.8039	2.7000e-003	0.8066	0.1986	2.5900e-003	0.2012		197.2812	197.2812	0.0156		197.6710
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7707	5.5047	6.1009	0.0310	2.6174	0.0646	2.6820	0.6892	0.0615	0.7506		3,210.4691	3,210.4691	0.1437		3,214.0608

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0169	0.5360	0.1379	1.7800e-003	0.0451	2.1400e-003	0.0472	0.0123	2.0400e-003	0.0144		194.9064	194.9064	0.0156		195.2958
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6888	4.8087	5.5693	0.0303	1.8586	0.0448	1.9035	0.5029	0.0426	0.5455		3,148.6318	3,148.6318	0.1370		3,152.0563

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	0.0169	0.5360	0.1379	1.7800e-003	0.0451	2.1400e-003	0.0472	0.0123	2.0400e-003	0.0144		194.9064	194.9064	0.0156		195.2958
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6888	4.8087	5.5693	0.0303	1.8586	0.0448	1.9035	0.5029	0.0426	0.5455		3,148.6318	3,148.6318	0.1370		3,152.0563

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.7 Construction of underground electrical collection system - 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	3.9926	39.6987	24.2976	0.0375		2.3607	2.3607		2.1718	2.1718		3,636.2619	3,636.2619	1.1760		3,665.6629
Total	3.9926	39.6987	24.2976	0.0375	10.5387	2.3607	12.8993	5.7929	2.1718	7.9647		3,636.2619	3,636.2619	1.1760		3,665.6629

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	0.1956	4.6645	1.2989	0.0175	0.5213	0.0403	0.5616	0.1499	0.0386	0.1885		1,872.0818	1,872.0818	0.0978		1,874.5272
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	1.9599	8.1017	16.3491	0.0712	5.2937	0.0792	5.3728	1.4169	0.0747	1.4915		7,300.0665	7,300.0665	0.2933		7,307.3993

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.7 Construction of underground electrical collection system - 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					4.1101	0.0000	4.1101	2.2592	0.0000	2.2592			0.0000			0.0000
Off-Road	0.4593	1.9904	23.7503	0.0375		0.0612	0.0612		0.0612	0.0612	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629
Total	0.4593	1.9904	23.7503	0.0375	4.1101	0.0612	4.1713	2.2592	0.0612	2.3205	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629

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	0.1956	4.6645	1.2989	0.0175	0.5213	0.0403	0.5616	0.1499	0.0386	0.1885		1,872.0818	1,872.0818	0.0978		1,874.5272
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	1.9599	8.1017	16.3491	0.0712	5.2937	0.0792	5.3728	1.4169	0.0747	1.4915		7,300.0665	7,300.0665	0.2933		7,307.3993

Campo Wind Facilities Construction Mitigated - 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	0.1326	4.2101	1.0828	0.0140	0.3428	0.0168	0.3596	0.0939	0.0161	0.1100		1,530.901 3	1,530.901 3	0.1224		1,533.960 0
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	1.1506	4.9813	9.7809	0.0420	3.1011	0.0350	3.1361	0.8253	0.0328	0.8581		4,318.215 7	4,318.215 7	0.2021		4,323.268 9

Campo Wind Facilities Construction Mitigated - 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	1.8934	13.9035	78.8596	0.1546		0.2320	0.2320		0.2320	0.2320	0.0000	14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	1.8934	13.9035	78.8596	0.1546		0.2320	0.2320		0.2320	0.2320	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	0.1326	4.2101	1.0828	0.0140	0.3428	0.0168	0.3596	0.0939	0.0161	0.1100		1,530.901 3	1,530.901 3	0.1224		1,533.960 0
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	1.1506	4.9813	9.7809	0.0420	3.1011	0.0350	3.1361	0.8253	0.0328	0.8581		4,318.215 7	4,318.215 7	0.2021		4,323.268 9

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.9 Operations and maintenance facility - 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	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
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	0.9161	2.2805	7.7027	0.0294	2.4791	0.0289	2.5080	0.6613	0.0271	0.6884		2,976.9684	2,976.9684	0.1015		2,979.5058

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.9 Operations and maintenance facility - 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	0.2049	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

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	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
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	0.9161	2.2805	7.7027	0.0294	2.4791	0.0289	2.5080	0.6613	0.0271	0.6884		2,976.9684	2,976.9684	0.1015		2,979.5058

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.10 Construction of collector substation - 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	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642
Total	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642

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	0.0254	0.8069	0.2075	2.6800e-003	0.0657	3.2200e-003	0.0689	0.0180	3.0800e-003	0.0211		293.4228	293.4228	0.0235		294.0090
Vendor	0.0489	1.1661	0.3247	4.3600e-003	0.1303	0.0101	0.1404	0.0375	9.6400e-003	0.0471		468.0205	468.0205	0.0245		468.6318
Worker	0.3393	0.2571	2.8994	9.3200e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		929.1048	929.1048	0.0266		929.7696
Total	0.4136	2.2301	3.4316	0.0164	1.1155	0.0194	1.1348	0.2993	0.0183	0.3176		1,690.5480	1,690.5480	0.0745		1,692.4104

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.10 Construction of collector substation - 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	0.4863	3.7356	26.0283	0.0420		0.0590	0.0590		0.0590	0.0590	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642
Total	0.4863	3.7356	26.0283	0.0420		0.0590	0.0590		0.0590	0.0590	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642

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	0.0254	0.8069	0.2075	2.6800e-003	0.0657	3.2200e-003	0.0689	0.0180	3.0800e-003	0.0211		293.4228	293.4228	0.0235		294.0090
Vendor	0.0489	1.1661	0.3247	4.3600e-003	0.1303	0.0101	0.1404	0.0375	9.6400e-003	0.0471		468.0205	468.0205	0.0245		468.6318
Worker	0.3393	0.2571	2.8994	9.3200e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		929.1048	929.1048	0.0266		929.7696
Total	0.4136	2.2301	3.4316	0.0164	1.1155	0.0194	1.1348	0.2993	0.0183	0.3176		1,690.5480	1,690.5480	0.0745		1,692.4104

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.11 Meteorological 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	3.2400e-003	0.1029	0.0265	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	3.9000e-004	2.6900e-003		37.4220	37.4220	2.9900e-003		37.4968
Vendor	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
Worker	0.1685	0.1276	1.4390	4.6200e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		460.9095	460.9095	0.0132		461.2393
Total	0.2370	1.7853	1.8984	0.0108	0.6382	0.0169	0.6551	0.1732	0.0160	0.1892		1,122.358 7	1,122.358 7	0.0488		1,123.578 5

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

3.11 Meteorological 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	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	0.0000	2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	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	3.2400e-003	0.1029	0.0265	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	3.9000e-004	2.6900e-003		37.4220	37.4220	2.9900e-003		37.4968
Vendor	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
Worker	0.1685	0.1276	1.4390	4.6200e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		460.9095	460.9095	0.0132		461.2393
Total	0.2370	1.7853	1.8984	0.0108	0.6382	0.0169	0.6551	0.1732	0.0160	0.1892		1,122.358 7	1,122.358 7	0.0488		1,123.578 5

4.0 Operational Detail - Mobile

Campo Wind Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Wind Facilities Construction Mitigated - 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	0.0000	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

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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**

Campo Wind Facilities 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	0.6853	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	0.6853	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	0.0000					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	0.6853	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 Wind Facilities 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	0.0000					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	0.6853	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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Campo Wind Facilities Construction Mitigated - San Diego County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

Campo Wind Facilities 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/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

Project Characteristics - Mitigated construction only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - Implementation of mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

[illegible]

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	PhaseEndDate	6/6/2022	3/28/2020
tblConstructionPhase	PhaseEndDate	8/5/2019	11/26/2019
tblConstructionPhase	PhaseStartDate	8/6/2019	12/22/2019
tblConstructionPhase	PhaseStartDate	4/23/2019	9/1/2019
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

tbloffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Trenchers
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	UsageHours	8.00	7.00
tbloffRoadEquipment	UsageHours	8.00	6.00

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
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tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
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tblTripsAndVMT	VendorTripLength	6.60	47.00

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
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tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
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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	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
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tblTripsAndVMT	WorkerTripNumber	787.00	24.00

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities 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	27.5846	311.7512	152.4182	0.5083	73.2041	11.3980	84.6021	31.0879	10.5960	41.6838	0.0000	51,898.81 43	51,898.81 43	8.6675	0.0000	52,115.502 5
2020	38.0852	343.8114	245.5423	0.7048	32.1435	14.0465	45.4468	11.5875	13.2810	24.6649	0.0000	70,121.82 21	70,121.82 21	10.3810	0.0000	70,381.34 78
Maximum	38.0852	343.8114	245.5423	0.7048	73.2041	14.0465	84.6021	31.0879	13.2810	41.6838	0.0000	70,121.82 21	70,121.82 21	10.3810	0.0000	70,381.34 78

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	8.4191	79.7992	153.3863	0.5083	35.4691	1.1090	36.5781	14.0326	1.0772	15.1098	0.0000	51,898.81 43	51,898.81 43	8.6675	0.0000	52,115.50 25
2020	13.3044	84.5577	262.3178	0.7048	25.7149	0.9540	26.6427	8.0539	0.9339	8.9602	0.0000	70,121.82 21	70,121.82 21	10.3810	0.0000	70,381.34 77
Maximum	13.3044	84.5577	262.3178	0.7048	35.4691	1.1090	36.5781	14.0326	1.0772	15.1098	0.0000	70,121.82 21	70,121.82 21	10.3810	0.0000	70,381.34 77

	ROG	NOx	CO	SO2	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	66.92	74.93	-4.46	0.00	41.92	91.89	51.39	48.25	91.58	63.72	0.00	0.00	0.00	0.00	0.00	0.00

Campo Wind Facilities 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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

Campo Wind Facilities 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 of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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 Wind Facilities Construction Mitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Operations and maintenance facility	Welders	1	8.00	46	0.45
Clearing and grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Wind turbine foundation construction	Air Compressors	3	8.00	78	0.48
Wind turbine foundation construction	Pumps	1	8.00	84	0.74
Construction of access roads	Rubber Tired Loaders	7	8.00	203	0.36
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
Wind turbine erection	Air Compressors	2	8.00	78	0.48
Wind turbine erection	Pumps	2	8.00	84	0.74
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Pumps	1	8.00	84	0.74
Meteorological towers	Cranes	1	7.00	231	0.29
Wind turbine erection	Cranes	19	7.00	231	0.29
Construction of collector substation	Cranes	1	7.00	231	0.29
Wind turbine foundation construction	Generator Sets	3	8.00	84	0.74
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Clearing and grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and grading	Graders	3	8.00	187	0.41
Clearing and grading	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Meteorological towers	Generator Sets	2	8.00	84	0.74
Wind turbine erection	Generator Sets	3	8.00	84	0.74

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

Construction of collector substation	Generator Sets	2	8.00	84	0.74
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of access roads	Scrapers	3	8.00	367	0.48
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45
Wind turbine erection	Welders	7	8.00	46	0.45
Construction of collector substation	Welders	2	8.00	46	0.45
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45

Trips and VMT

Campo Wind Facilities 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
Meteorological towers	5	24.00	4.00	4.00	25.00	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	15	72.00	108.00	734.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	25.20	47.00	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

Campo Wind Facilities Construction Mitigated - 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					61.8606	0.0000	61.8606	27.9594	0.0000	27.9594			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	61.8606	7.1432	69.0037	27.9594	6.5943	34.5536		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	2.2918	49.7826	13.4299	0.1580	4.6918	0.5703	5.2621	1.3490	0.5456	1.8946		16,918.67 14	16,918.67 14	0.9221		16,941.72 47
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	3.1962	58.7594	19.7906	0.1971	6.6910	0.6183	7.3093	1.8846	0.5912	2.4758		21,054.17 18	21,054.17 18	1.1879		21,083.87 04

Campo Wind Facilities Construction Mitigated - 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					24.1256	0.0000	24.1256	10.9042	0.0000	10.9042			0.0000			0.0000
Off-Road	1.7092	7.4066	64.4256	0.1406		0.2279	0.2279		0.2279	0.2279	0.0000	13,900.28 29	13,900.28 29	4.2414		14,006.31 89
Total	1.7092	7.4066	64.4256	0.1406	24.1256	0.2279	24.3535	10.9042	0.2279	11.1321	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	2.2918	49.7826	13.4299	0.1580	4.6918	0.5703	5.2621	1.3490	0.5456	1.8946		16,918.67 14	16,918.67 14	0.9221		16,941.72 47
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	3.1962	58.7594	19.7906	0.1971	6.6910	0.6183	7.3093	1.8846	0.5912	2.4758		21,054.17 18	21,054.17 18	1.1879		21,083.87 04

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.3 Construction of 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	6.0011	72.6949	35.9945	0.0894		2.6564	2.6564		2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634
Total	6.0011	72.6949	35.9945	0.0894	0.0000	2.6564	2.6564	0.0000	2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634

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

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.3 Construction of 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	1.1033	4.7810	40.4542	0.0894		0.1471	0.1471		0.1471	0.1471	0.0000	8,852.7406	8,852.7406	2.8009		8,922.7634
Total	1.1033	4.7810	40.4542	0.0894	0.0000	0.1471	0.1471	0.0000	0.1471	0.1471	0.0000	8,852.7406	8,852.7406	2.8009		8,922.7634

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

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	5.6104	66.2776	33.8810	0.0894		2.4049	2.4049		2.2125	2.2125		8,658.345 4	8,658.345 4	2.8003		8,728.352 5
Total	5.6104	66.2776	33.8810	0.0894	0.0000	2.4049	2.4049	0.0000	2.2125	2.2125		8,658.345 4	8,658.345 4	2.8003		8,728.352 5

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 Wind Facilities Construction Mitigated - San Diego County, Winter

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1033	4.7810	40.4542	0.0894		0.1471	0.1471		0.1471	0.1471	0.0000	8,658.345 4	8,658.345 4	2.8003		8,728.352 5
Total	1.1033	4.7810	40.4542	0.0894	0.0000	0.1471	0.1471	0.0000	0.1471	0.1471	0.0000	8,658.345 4	8,658.345 4	2.8003		8,728.352 5

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 Wind Facilities Construction Mitigated - San Diego County, Winter

3.4 Gen-tie 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	0.0280	0.8973	0.2146	2.7000e-003	0.0655	4.0900e-003	0.0696	0.0179	3.9100e-003	0.0219		294.1013	294.1013	0.0237		294.6944
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.0928	6.1453	7.2295	0.0354	2.3387	0.0692	2.4079	0.6304	0.0658	0.6962		3,660.7474	3,660.7474	0.1639		3,664.8452

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.4 Gen-tie 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	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	0.0000	2,140.9266	2,140.9266	0.2016		2,145.9669
Total	0.2481	1.7873	14.2430	0.0229		0.0305	0.0305		0.0305	0.0305	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	0.0280	0.8973	0.2146	2.7000e-003	0.0655	4.0900e-003	0.0696	0.0179	3.9100e-003	0.0219		294.1013	294.1013	0.0237		294.6944
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.0928	6.1453	7.2295	0.0354	2.3387	0.0692	2.4079	0.6304	0.0658	0.6962		3,660.7474	3,660.7474	0.1639		3,664.8452

Campo Wind Facilities Construction Mitigated - 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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.0873	3,133.0873	0.1708		3,137.3564
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	2.8904	41.5715	20.0563	0.1547	21.8994	0.2695	22.1689	5.5403	0.2571	5.7974		16,521.3518	16,521.3518	1.0926		16,548.6669

Campo Wind Facilities Construction Mitigated - 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	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	0.0000	3,617.9305	3,617.9305	0.2552		3,624.3092
Total	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.0873	3,133.0873	0.1708		3,137.3564
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	2.8904	41.5715	20.0563	0.1547	21.8994	0.2695	22.1689	5.5403	0.2571	5.7974		16,521.3518	16,521.3518	1.0926		16,548.6669

Campo Wind Facilities Construction Mitigated - 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	0.3322	7.9671	2.2096	0.0290	0.8688	0.0674	0.9363	0.2498	0.0645	0.3143		3,104.9806	3,104.9806	0.1655		3,109.1184
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	2.6235	37.6447	18.7935	0.1520	6.5578	0.2010	6.7588	1.7746	0.1915	1.9662		16,269.1051	16,269.1051	1.0766		16,296.0203

Campo Wind Facilities Construction Mitigated - 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	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	0.0000	3,617.9305	3,617.9305	0.2297		3,623.6726
Total	0.3820	1.6552	23.5551	0.0382		0.0509	0.0509		0.0509	0.0509	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	0.3322	7.9671	2.2096	0.0290	0.8688	0.0674	0.9363	0.2498	0.0645	0.3143		3,104.9806	3,104.9806	0.1655		3,109.1184
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	2.6235	37.6447	18.7935	0.1520	6.5578	0.2010	6.7588	1.7746	0.1915	1.9662		16,269.1051	16,269.1051	1.0766		16,296.0203

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0187	0.5982	0.1430	1.8000e-003	0.8039	2.7300e-003	0.8066	0.1986	2.6100e-003	0.2012		196.0675	196.0675	0.0158		196.4629
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8703	5.6866	5.7151	0.0300	2.6174	0.0648	2.6822	0.6892	0.0616	0.7508		3,112.6881	3,112.6881	0.1423		3,116.2456

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0581		511.3511
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	0.0187	0.5982	0.1430	1.8000e-003	0.8039	2.7300e-003	0.8066	0.1986	2.6100e-003	0.2012		196.0675	196.0675	0.0158		196.4629
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8703	5.6866	5.7151	0.0300	2.6174	0.0648	2.6822	0.6892	0.0616	0.7508		3,112.6881	3,112.6881	0.1423		3,116.2456

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0171	0.5490	0.1406	1.7700e-003	0.0451	2.1500e-003	0.0472	0.0123	2.0600e-003	0.0144		193.6821	193.6821	0.0158		194.0768
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7834	4.9652	5.2065	0.0294	1.8586	0.0449	1.9036	0.5029	0.0427	0.5456		3,053.5709	3,053.5709	0.1357		3,056.9638

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	0.0000	509.8991	509.8991	0.0523		511.2055
Total	0.0730	1.0287	3.4476	5.7000e-003		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003	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	0.0171	0.5490	0.1406	1.7700e-003	0.0451	2.1500e-003	0.0472	0.0123	2.0600e-003	0.0144		193.6821	193.6821	0.0158		194.0768
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7834	4.9652	5.2065	0.0294	1.8586	0.0449	1.9036	0.5029	0.0427	0.5456		3,053.5709	3,053.5709	0.1357		3,056.9638

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.7 Construction of underground electrical collection system - 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	3.9926	39.6987	24.2976	0.0375		2.3607	2.3607		2.1718	2.1718		3,636.2619	3,636.2619	1.1760		3,665.6629
Total	3.9926	39.6987	24.2976	0.0375	10.5387	2.3607	12.8993	5.7929	2.1718	7.9647		3,636.2619	3,636.2619	1.1760		3,665.6629

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	0.1993	4.7803	1.3258	0.0174	0.5213	0.0404	0.5618	0.1499	0.0387	0.1886		1,862.9884	1,862.9884	0.0993		1,865.4710
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	2.2685	8.4263	15.0938	0.0682	5.2937	0.0794	5.3730	1.4169	0.0749	1.4917		6,998.5289	6,998.5289	0.2866		7,005.6939

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.7 Construction of underground electrical collection system - 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					4.1101	0.0000	4.1101	2.2592	0.0000	2.2592			0.0000			0.0000
Off-Road	0.4593	1.9904	23.7503	0.0375		0.0612	0.0612		0.0612	0.0612	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629
Total	0.4593	1.9904	23.7503	0.0375	4.1101	0.0612	4.1713	2.2592	0.0612	2.3205	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629

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	0.1993	4.7803	1.3258	0.0174	0.5213	0.0404	0.5618	0.1499	0.0387	0.1886		1,862.9884	1,862.9884	0.0993		1,865.4710
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	2.2685	8.4263	15.0938	0.0682	5.2937	0.0794	5.3730	1.4169	0.0749	1.4917		6,998.5289	6,998.5289	0.2866		7,005.6939

Campo Wind Facilities Construction Mitigated - 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	0.1340	4.3123	1.1043	0.0139	0.3428	0.0169	0.3598	0.0939	0.0162	0.1101		1,521.285 2	1,521.285 2	0.1240		1,524.385 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	1.3344	5.1775	9.0264	0.0401	3.1011	0.0351	3.1362	0.8253	0.0329	0.8582		4,136.082 1	4,136.082 1	0.1984		4,141.040 8

Campo Wind Facilities Construction Mitigated - 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	1.8934	13.9035	78.8596	0.1546		0.2320	0.2320		0.2320	0.2320	0.0000	14,607.92 27	14,607.92 27	3.4571		14,694.35 04
Total	1.8934	13.9035	78.8596	0.1546		0.2320	0.2320		0.2320	0.2320	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	0.1340	4.3123	1.1043	0.0139	0.3428	0.0169	0.3598	0.0939	0.0162	0.1101		1,521.285 2	1,521.285 2	0.1240		1,524.385 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	1.3344	5.1775	9.0264	0.0401	3.1011	0.0351	3.1362	0.8253	0.0329	0.8582		4,136.082 1	4,136.082 1	0.1984		4,141.040 8

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.9 Operations and maintenance facility - 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	2.6400e-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	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
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	1.0694	2.3994	7.0655	0.0279	2.4791	0.0290	2.5080	0.6613	0.0272	0.6885		2,829.9830	2,829.9830	0.0975		2,832.4206

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.9 Operations and maintenance facility - 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	0.2049	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

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	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
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	1.0694	2.3994	7.0655	0.0279	2.4791	0.0290	2.5080	0.6613	0.0272	0.6885		2,829.9830	2,829.9830	0.0975		2,832.4206

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.10 Construction of collector substation - 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	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642
Total	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642

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	0.0257	0.8265	0.2117	2.6600e-003	0.0657	3.2400e-003	0.0690	0.0180	3.1000e-003	0.0211		291.5797	291.5797	0.0238		292.1738
Vendor	0.0498	1.1951	0.3315	4.3400e-003	0.1303	0.0101	0.1404	0.0375	9.6700e-003	0.0471		465.7471	465.7471	0.0248		466.3678
Worker	0.4001	0.2884	2.6407	8.7400e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		871.5990	871.5990	0.0248		872.2185
Total	0.4757	2.3100	3.1838	0.0157	1.1155	0.0194	1.1349	0.2993	0.0184	0.3176		1,628.9257	1,628.9257	0.0734		1,630.7601

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.10 Construction of collector substation - 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	0.4863	3.7356	26.0283	0.0420		0.0590	0.0590		0.0590	0.0590	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642
Total	0.4863	3.7356	26.0283	0.0420		0.0590	0.0590		0.0590	0.0590	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642

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	0.0257	0.8265	0.2117	2.6600e-003	0.0657	3.2400e-003	0.0690	0.0180	3.1000e-003	0.0211		291.5797	291.5797	0.0238		292.1738
Vendor	0.0498	1.1951	0.3315	4.3400e-003	0.1303	0.0101	0.1404	0.0375	9.6700e-003	0.0471		465.7471	465.7471	0.0248		466.3678
Worker	0.4001	0.2884	2.6407	8.7400e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		871.5990	871.5990	0.0248		872.2185
Total	0.4757	2.3100	3.1838	0.0157	1.1155	0.0194	1.1349	0.2993	0.0184	0.3176		1,628.9257	1,628.9257	0.0734		1,630.7601

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.11 Meteorological 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	3.2800e-003	0.1054	0.0270	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	4.0000e-004	2.6900e-003		37.1870	37.1870	3.0300e-003		37.2628
Vendor	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
Worker	0.1987	0.1431	1.3109	4.3400e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		432.3838	432.3838	0.0123		432.6913
Total	0.2684	1.8420	1.7799	0.0105	0.6382	0.0169	0.6551	0.1732	0.0161	0.1893		1,090.566 9	1,090.566 9	0.0484		1,091.777 7

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

3.11 Meteorological 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	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	0.0000	2,205.660 2	2,205.660 2	0.3441		2,214.262 2
Total	0.2706	1.9869	13.9333	0.0235		0.0332	0.0332		0.0332	0.0332	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	3.2800e-003	0.1054	0.0270	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	4.0000e-004	2.6900e-003		37.1870	37.1870	3.0300e-003		37.2628
Vendor	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
Worker	0.1987	0.1431	1.3109	4.3400e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		432.3838	432.3838	0.0123		432.6913
Total	0.2684	1.8420	1.7799	0.0105	0.6382	0.0169	0.6551	0.1732	0.0161	0.1893		1,090.566 9	1,090.566 9	0.0484		1,091.777 7

4.0 Operational Detail - Mobile

Campo Wind Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Wind Facilities Construction Mitigated - 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	0.0000	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

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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**

Campo Wind Facilities 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	0.6853	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	0.6853	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	0.0000					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	0.6853	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 Wind Facilities 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	0.0000					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	0.6853	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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Campo Wind Facilities Construction Mitigated - San Diego County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

Campo Wind Facilities 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/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

Project Characteristics - Unmitigated construction only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaCoating	Area_Parking	112385	0

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tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	PhaseEndDate	6/6/2022	3/28/2020
tblConstructionPhase	PhaseEndDate	8/5/2019	11/26/2019
tblConstructionPhase	PhaseStartDate	8/6/2019	12/22/2019
tblConstructionPhase	PhaseStartDate	4/23/2019	9/1/2019
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00

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tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
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
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tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00

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tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
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tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
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	787.00	24.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00

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tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.8272	9.7049	4.5844	0.0157	2.2999	0.3478	2.6476	0.9709	0.3226	1.2934	0.0000	1,453.5903	1,453.5903	0.2481	0.0000	1,459.7918
2020	1.8646	16.5921	12.2630	0.0336	1.5799	0.7088	2.2887	0.5870	0.6705	1.2575	0.0000	3,017.0420	3,017.0420	0.4436	0.0000	3,028.1314
Maximum	1.8646	16.5921	12.2630	0.0336	2.2999	0.7088	2.6476	0.9709	0.6705	1.2934	0.0000	3,017.0420	3,017.0420	0.4436	0.0000	3,028.1314

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	0.8272	9.7049	4.5844	0.0157	2.2999	0.3478	2.6476	0.9709	0.3226	1.2934	0.0000	1,453.5894	1,453.5894	0.2481	0.0000	1,459.7910
2020	1.8646	16.5921	12.2630	0.0336	1.5799	0.7088	2.2887	0.5870	0.6705	1.2575	0.0000	3,017.0401	3,017.0401	0.4436	0.0000	3,028.1295
Maximum	1.8646	16.5921	12.2630	0.0336	2.2999	0.7088	2.6476	0.9709	0.6705	1.2934	0.0000	3,017.0401	3,017.0401	0.4436	0.0000	3,028.1295

[illegible]

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	7-1-2019	9-30-2019	2.5633	2.5633
4	10-1-2019	12-31-2019	7.9714	7.9714
5	1-1-2020	3-31-2020	9.5341	9.5341
6	4-1-2020	6-30-2020	7.8730	7.8730
7	7-1-2020	9-30-2020	1.0154	1.0154
		Highest	9.5341	9.5341

2.2 Overall Operational

Unmitigated Operational

[illegible]

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1250					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	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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 Facilities Construction Unmitigated - San Diego County, Annual

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 of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Operations and maintenance facility	Welders	1	8.00	46	0.45
Clearing and grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Wind turbine foundation construction	Air Compressors	3	8.00	78	0.48
Wind turbine foundation construction	Pumps	1	8.00	84	0.74

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Construction of access roads	Rubber Tired Loaders	7	8.00	203	0.36
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
Wind turbine erection	Air Compressors	2	8.00	78	0.48
Wind turbine erection	Pumps	2	8.00	84	0.74
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Pumps	1	8.00	84	0.74
Meteorological towers	Cranes	1	7.00	231	0.29
Wind turbine erection	Cranes	19	7.00	231	0.29
Construction of collector substation	Cranes	1	7.00	231	0.29
Wind turbine foundation construction	Generator Sets	3	8.00	84	0.74
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Clearing and grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and grading	Graders	3	8.00	187	0.41
Clearing and grading	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Meteorological towers	Generator Sets	2	8.00	84	0.74
Wind turbine erection	Generator Sets	3	8.00	84	0.74
Construction of collector substation	Generator Sets	2	8.00	84	0.74
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of access roads	Scrapers	3	8.00	367	0.48
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45
Wind turbine erection	Welders	7	8.00	46	0.45
Construction of collector substation	Welders	2	8.00	46	0.45
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45

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
Meteorological towers	5	24.00	4.00	4.00	25.00	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	15	72.00	108.00	734.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower erection	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

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					1.9177	0.0000	1.9177	0.8667	0.0000	0.8667	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	1.9177	0.2214	2.1391	0.8667	0.2044	1.0712	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	0.0702	1.5520	0.4114	4.9100e-003	0.1426	0.0177	0.1603	0.0411	0.0169	0.0580	0.0000	477.1233	477.1233	0.0257	0.0000	477.7658
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	0.0957	1.8316	0.6090	6.1200e-003	0.2032	0.0191	0.2223	0.0574	0.0183	0.0757	0.0000	594.0897	594.0897	0.0331	0.0000	594.9181

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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					1.9177	0.0000	1.9177	0.8667	0.0000	0.8667	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	390.9134	390.9134	0.1193	0.0000	393.8954
Total	0.4445	4.9358	2.1186	4.3600e-003	1.9177	0.2214	2.1391	0.8667	0.2044	1.0712	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	0.0702	1.5520	0.4114	4.9100e-003	0.1426	0.0177	0.1603	0.0411	0.0169	0.0580	0.0000	477.1233	477.1233	0.0257	0.0000	477.7658
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	0.0957	1.8316	0.6090	6.1200e-003	0.2032	0.0191	0.2223	0.0574	0.0183	0.0757	0.0000	594.0897	594.0897	0.0331	0.0000	594.9181

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3.3 Construction of 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	0.2010	2.4353	1.2058	3.0000e-003		0.0890	0.0890		0.0819	0.0819	0.0000	269.0409	269.0409	0.0851	0.0000	271.1689
Total	0.2010	2.4353	1.2058	3.0000e-003	0.0000	0.0890	0.0890	0.0000	0.0819	0.0819	0.0000	269.0409	269.0409	0.0851	0.0000	271.1689

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 of 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	0.2010	2.4353	1.2058	3.0000e-003		0.0890	0.0890		0.0819	0.0819	0.0000	269.0406	269.0406	0.0851	0.0000	271.1686
Total	0.2010	2.4353	1.2058	3.0000e-003	0.0000	0.0890	0.0890	0.0000	0.0819	0.0819	0.0000	269.0406	269.0406	0.0851	0.0000	271.1686

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 of 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					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	0.1767	2.0877	1.0673	2.8200e-003		0.0758	0.0758		0.0697	0.0697	0.0000	247.4236	247.4236	0.0800	0.0000	249.4242
Total	0.1767	2.0877	1.0673	2.8200e-003	0.0000	0.0758	0.0758	0.0000	0.0697	0.0697	0.0000	247.4236	247.4236	0.0800	0.0000	249.4242

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 of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1767	2.0877	1.0673	2.8200e-003		0.0758	0.0758		0.0697	0.0697	0.0000	247.4234	247.4234	0.0800	0.0000	249.4239
Total	0.1767	2.0877	1.0673	2.8200e-003	0.0000	0.0758	0.0758	0.0000	0.0697	0.0697	0.0000	247.4234	247.4234	0.0800	0.0000	249.4239

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 Gen-tie 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	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615
Total	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615

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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	2.5200e-003	0.0556	0.0147	1.8000e-004	5.1100e-003	6.3000e-004	5.7400e-003	1.4700e-003	6.1000e-004	2.0800e-003	0.0000	17.1012	17.1012	9.2000e-004	0.0000	17.1242
Worker	8.9400e-003	7.5400e-003	0.0699	2.2000e-004	0.0215	1.5000e-004	0.0217	5.7200e-003	1.4000e-004	5.8600e-003	0.0000	19.7943	19.7943	6.0000e-004	0.0000	19.8094
Total	0.0118	0.0740	0.0872	4.3000e-004	0.0274	8.3000e-004	0.0283	7.4000e-003	8.0000e-004	8.2000e-003	0.0000	40.1086	40.1086	1.7800e-003	0.0000	40.1532

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3.4 Gen-tie 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	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614
Total	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614

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	7.7000e-004	5.0000e-005	8.2000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	3.2131	3.2131	2.6000e-004	0.0000	3.2196
Vendor	2.5200e-003	0.0556	0.0147	1.8000e-004	5.1100e-003	6.3000e-004	5.7400e-003	1.4700e-003	6.1000e-004	2.0800e-003	0.0000	17.1012	17.1012	9.2000e-004	0.0000	17.1242
Worker	8.9400e-003	7.5400e-003	0.0699	2.2000e-004	0.0215	1.5000e-004	0.0217	5.7200e-003	1.4000e-004	5.8600e-003	0.0000	19.7943	19.7943	6.0000e-004	0.0000	19.8094
Total	0.0118	0.0740	0.0872	4.3000e-004	0.0274	8.3000e-004	0.0283	7.4000e-003	8.0000e-004	8.2000e-003	0.0000	40.1086	40.1086	1.7800e-003	0.0000	40.1532

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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	1.4700e-003	0.0325	8.6000e-003	1.0000e-004	2.9800e-003	3.7000e-004	3.3500e-003	8.6000e-004	3.5000e-004	1.2100e-003	0.0000	9.9757	9.9757	5.4000e-004	0.0000	9.9891
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	9.4200e-003	0.1463	0.0701	5.4000e-004	0.0747	9.5000e-004	0.0756	0.0189	8.9000e-004	0.0198	0.0000	52.7032	52.7032	3.4500e-003	0.0000	52.7893

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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	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

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	1.4700e-003	0.0325	8.6000e-003	1.0000e-004	2.9800e-003	3.7000e-004	3.3500e-003	8.6000e-004	3.5000e-004	1.2100e-003	0.0000	9.9757	9.9757	5.4000e-004	0.0000	9.9891
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	9.4200e-003	0.1463	0.0701	5.4000e-004	0.0747	9.5000e-004	0.0756	0.0189	8.9000e-004	0.0198	0.0000	52.7032	52.7032	3.4500e-003	0.0000	52.7893

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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	0.0103	0.2524	0.0688	9.1000e-004	0.0268	2.1200e-003	0.0290	7.7400e-003	2.0300e-003	9.7600e-003	0.0000	88.9801	88.9801	4.6900e-003	0.0000	89.0973
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	0.0767	1.1922	0.5913	4.8000e-003	0.2020	6.3200e-003	0.2083	0.0548	6.0200e-003	0.0608	0.0000	467.1030	467.1030	0.0306	0.0000	467.8673

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

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	0.0816	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

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	0.0103	0.2524	0.0688	9.1000e-004	0.0268	2.1200e-003	0.0290	7.7400e-003	2.0300e-003	9.7600e-003	0.0000	88.9801	88.9801	4.6900e-003	0.0000	89.0973
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	0.0767	1.1922	0.5913	4.8000e-003	0.2020	6.3200e-003	0.2083	0.0548	6.0200e-003	0.0608	0.0000	467.1030	467.1030	0.0306	0.0000	467.8673

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3.6 Gen-tie 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	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	1.0000e-005	3.0000e-004	7.0000e-005	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0893	0.0893	1.0000e-005	0.0000	0.0894
Vendor	1.0000e-004	2.3200e-003	6.1000e-004	1.0000e-005	2.1000e-004	3.0000e-005	2.4000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.7126	0.7126	4.0000e-005	0.0000	0.7135
Worker	2.8000e-004	2.4000e-004	2.1900e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6186	0.6186	2.0000e-005	0.0000	0.6190
Total	3.9000e-004	2.8600e-003	2.8700e-003	2.0000e-005	1.2700e-003	3.0000e-005	1.3100e-003	3.4000e-004	3.0000e-005	3.7000e-004	0.0000	1.4204	1.4204	7.0000e-005	0.0000	1.4220

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3.6 Gen-tie 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	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	1.0000e-005	3.0000e-004	7.0000e-005	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0893	0.0893	1.0000e-005	0.0000	0.0894
Vendor	1.0000e-004	2.3200e-003	6.1000e-004	1.0000e-005	2.1000e-004	3.0000e-005	2.4000e-004	6.0000e-005	3.0000e-005	9.0000e-005	0.0000	0.7126	0.7126	4.0000e-005	0.0000	0.7135
Worker	2.8000e-004	2.4000e-004	2.1900e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6186	0.6186	2.0000e-005	0.0000	0.6190
Total	3.9000e-004	2.8600e-003	2.8700e-003	2.0000e-005	1.2700e-003	3.0000e-005	1.3100e-003	3.4000e-004	3.0000e-005	3.7000e-004	0.0000	1.4204	1.4204	7.0000e-005	0.0000	1.4220

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3.6 Gen-tie 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	1.9000e-004	6.3500e-003	1.6000e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.0280	2.0280	1.6000e-004	0.0000	2.0321
Vendor	1.8900e-003	0.0461	0.0126	1.7000e-004	4.9000e-003	3.9000e-004	5.2800e-003	1.4100e-003	3.7000e-004	1.7800e-003	0.0000	16.2424	16.2424	8.6000e-004	0.0000	16.2638
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0155	1.0000e-004	0.0156	4.1100e-003	1.0000e-004	4.2100e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.1000e-003	0.0573	0.0602	3.4000e-004	0.0209	5.1000e-004	0.0214	5.6600e-003	4.9000e-004	6.1500e-003	0.0000	32.0479	32.0479	1.4100e-003	0.0000	32.0832

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.6 Gen-tie 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	1.9000e-004	6.3500e-003	1.6000e-003	2.0000e-005	5.1000e-004	2.0000e-005	5.3000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	2.0280	2.0280	1.6000e-004	0.0000	2.0321
Vendor	1.8900e-003	0.0461	0.0126	1.7000e-004	4.9000e-003	3.9000e-004	5.2800e-003	1.4100e-003	3.7000e-004	1.7800e-003	0.0000	16.2424	16.2424	8.6000e-004	0.0000	16.2638
Worker	6.0200e-003	4.9000e-003	0.0460	1.5000e-004	0.0155	1.0000e-004	0.0156	4.1100e-003	1.0000e-004	4.2100e-003	0.0000	13.7775	13.7775	3.9000e-004	0.0000	13.7873
Total	8.1000e-003	0.0573	0.0602	3.4000e-004	0.0209	5.1000e-004	0.0214	5.6600e-003	4.9000e-004	6.1500e-003	0.0000	32.0479	32.0479	1.4100e-003	0.0000	32.0832

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.7 Construction of underground electrical collection system - 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	0.2196	2.1834	1.3364	2.0600e-003		0.1298	0.1298		0.1195	0.1195	0.0000	181.4319	181.4319	0.0587	0.0000	182.8988
Total	0.2196	2.1834	1.3364	2.0600e-003	0.5796	0.1298	0.7095	0.3186	0.1195	0.4381	0.0000	181.4319	181.4319	0.0587	0.0000	182.8988

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	0.0108	0.2644	0.0720	9.6000e-004	0.0281	2.2200e-003	0.0303	8.1100e-003	2.1200e-003	0.0102	0.0000	93.2173	93.2173	4.9100e-003	0.0000	93.3401
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	0.1106	0.4644	0.8364	3.7800e-003	0.2844	4.3600e-003	0.2887	0.0763	4.1000e-003	0.0804	0.0000	351.7957	351.7957	0.0143	0.0000	352.1533

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.7 Construction of underground electrical collection system - 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					0.5796	0.0000	0.5796	0.3186	0.0000	0.3186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2196	2.1834	1.3364	2.0600e-003		0.1298	0.1298		0.1195	0.1195	0.0000	181.4317	181.4317	0.0587	0.0000	182.8986
Total	0.2196	2.1834	1.3364	2.0600e-003	0.5796	0.1298	0.7095	0.3186	0.1195	0.4381	0.0000	181.4317	181.4317	0.0587	0.0000	182.8986

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	0.0108	0.2644	0.0720	9.6000e-004	0.0281	2.2200e-003	0.0303	8.1100e-003	2.1200e-003	0.0102	0.0000	93.2173	93.2173	4.9100e-003	0.0000	93.3401
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	0.1106	0.4644	0.8364	3.7800e-003	0.2844	4.3600e-003	0.2887	0.0763	4.1000e-003	0.0804	0.0000	351.7957	351.7957	0.0143	0.0000	352.1533

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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

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	7.3200e-003	0.2386	0.0600	7.7000e-004	0.0185	9.3000e-004	0.0194	5.0700e-003	8.9000e-004	5.9600e-003	0.0000	76.1831	76.1831	6.1400e-003	0.0000	76.3366
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	0.0650	0.2854	0.5002	2.2300e-003	0.1666	1.9300e-003	0.1685	0.0444	1.8100e-003	0.0462	0.0000	207.9673	207.9673	9.8900e-003	0.0000	208.2146

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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	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

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	7.3200e-003	0.2386	0.0600	7.7000e-004	0.0185	9.3000e-004	0.0194	5.0700e-003	8.9000e-004	5.9600e-003	0.0000	76.1831	76.1831	6.1400e-003	0.0000	76.3366
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	0.0650	0.2854	0.5002	2.2300e-003	0.1666	1.9300e-003	0.1685	0.0444	1.8100e-003	0.0462	0.0000	207.9673	207.9673	9.8900e-003	0.0000	208.2146

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3.9 Operations and maintenance facility - 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	5.0800e-003	0.1242	0.0338	4.5000e-004	0.0132	1.0400e-003	0.0143	3.8100e-003	1.0000e-003	4.8000e-003	0.0000	43.7839	43.7839	2.3100e-003	0.0000	43.8415
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	0.0730	0.1858	0.5524	2.1800e-003	0.1876	2.2400e-003	0.1899	0.0501	2.1000e-003	0.0522	0.0000	200.6468	200.6468	6.8900e-003	0.0000	200.8188

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.9 Operations and maintenance facility - 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	0.1024	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

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	5.0800e-003	0.1242	0.0338	4.5000e-004	0.0132	1.0400e-003	0.0143	3.8100e-003	1.0000e-003	4.8000e-003	0.0000	43.7839	43.7839	2.3100e-003	0.0000	43.8415
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	0.0730	0.1858	0.5524	2.1800e-003	0.1876	2.2400e-003	0.1899	0.0501	2.1000e-003	0.0522	0.0000	200.6468	200.6468	6.8900e-003	0.0000	200.8188

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.10 Construction of collector substation - 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	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388
Total	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388

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	1.4000e-003	0.0457	0.0115	1.5000e-004	3.5400e-003	1.8000e-004	3.7200e-003	9.7000e-004	1.7000e-004	1.1400e-003	0.0000	14.6018	14.6018	1.1800e-003	0.0000	14.6312
Vendor	2.7000e-003	0.0661	0.0180	2.4000e-004	7.0300e-003	5.6000e-004	7.5800e-003	2.0300e-003	5.3000e-004	2.5600e-003	0.0000	23.3043	23.3043	1.2300e-003	0.0000	23.3350
Worker	0.0192	0.0156	0.1467	4.9000e-004	0.0494	3.3000e-004	0.0497	0.0131	3.1000e-004	0.0134	0.0000	43.9281	43.9281	1.2500e-003	0.0000	43.9594
Total	0.0233	0.1275	0.1762	8.8000e-004	0.0599	1.0700e-003	0.0610	0.0161	1.0100e-003	0.0171	0.0000	81.8342	81.8342	3.6600e-003	0.0000	81.9255

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.10 Construction of collector substation - 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	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385
Total	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385

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	1.4000e-003	0.0457	0.0115	1.5000e-004	3.5400e-003	1.8000e-004	3.7200e-003	9.7000e-004	1.7000e-004	1.1400e-003	0.0000	14.6018	14.6018	1.1800e-003	0.0000	14.6312
Vendor	2.7000e-003	0.0661	0.0180	2.4000e-004	7.0300e-003	5.6000e-004	7.5800e-003	2.0300e-003	5.3000e-004	2.5600e-003	0.0000	23.3043	23.3043	1.2300e-003	0.0000	23.3350
Worker	0.0192	0.0156	0.1467	4.9000e-004	0.0494	3.3000e-004	0.0497	0.0131	3.1000e-004	0.0134	0.0000	43.9281	43.9281	1.2500e-003	0.0000	43.9594
Total	0.0233	0.1275	0.1762	8.8000e-004	0.0599	1.0700e-003	0.0610	0.0161	1.0100e-003	0.0171	0.0000	81.8342	81.8342	3.6600e-003	0.0000	81.9255

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.11 Meteorological 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	4.0000e-005	1.3300e-003	3.3000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4232	0.4232	3.0000e-005	0.0000	0.4241
Vendor	8.2000e-004	0.0200	5.4600e-003	7.0000e-005	2.1300e-003	1.7000e-004	2.3000e-003	6.1000e-004	1.6000e-004	7.7000e-004	0.0000	7.0619	7.0619	3.7000e-004	0.0000	7.0712
Worker	2.1700e-003	1.7600e-003	0.0166	5.0000e-005	5.5600e-003	4.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.9527	4.9527	1.4000e-004	0.0000	4.9562
Total	3.0300e-003	0.0231	0.0223	1.2000e-004	7.7900e-003	2.2000e-004	8.0100e-003	2.1200e-003	1.9000e-004	2.3100e-003	0.0000	12.4379	12.4379	5.4000e-004	0.0000	12.4515

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

3.11 Meteorological 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	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

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	4.0000e-005	1.3300e-003	3.3000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4232	0.4232	3.0000e-005	0.0000	0.4241
Vendor	8.2000e-004	0.0200	5.4600e-003	7.0000e-005	2.1300e-003	1.7000e-004	2.3000e-003	6.1000e-004	1.6000e-004	7.7000e-004	0.0000	7.0619	7.0619	3.7000e-004	0.0000	7.0712
Worker	2.1700e-003	1.7600e-003	0.0166	5.0000e-005	5.5600e-003	4.0000e-005	5.6000e-003	1.4800e-003	3.0000e-005	1.5100e-003	0.0000	4.9527	4.9527	1.4000e-004	0.0000	4.9562
Total	3.0300e-003	0.0231	0.0223	1.2000e-004	7.7900e-003	2.2000e-004	8.0100e-003	2.1200e-003	1.9000e-004	2.3100e-003	0.0000	12.4379	12.4379	5.4000e-004	0.0000	12.4515

4.0 Operational Detail - Mobile

Campo Wind Facilities Construction Unmitigated - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Wind Facilities Construction Unmitigated - 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

[illegible]

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Campo Wind Facilities Construction Unmitigated - 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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

[illegible]

6.2 Area by SubCategory

Unmitigated

[illegible]

Campo Wind Facilities Construction Unmitigated - 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	0.0000					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						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail**7.1 Mitigation Measures Water**

Campo Wind Facilities Construction Unmitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities 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 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Campo Wind Facilities Construction Unmitigated - 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
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11.0 Vegetation

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

Campo Wind Facilities 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/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

Project Characteristics - Unmitigated construction only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaCoating	Area_Parking	112385	0

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	PhaseEndDate	6/6/2022	3/28/2020
tblConstructionPhase	PhaseEndDate	8/5/2019	11/26/2019
tblConstructionPhase	PhaseStartDate	8/6/2019	12/22/2019
tblConstructionPhase	PhaseStartDate	4/23/2019	9/1/2019
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
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	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	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
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	787.00	24.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities 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	27.1572	309.9527	153.7294	0.5129	73.2041	11.3959	84.5999	31.0879	10.5939	41.6817	0.0000	52,363.0202	52,363.0202	8.6601	0.0000	52,579.5215
2020	36.9970	342.0290	249.8007	0.7159	32.1435	14.0450	45.4454	11.5875	13.2797	24.6636	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179
Maximum	36.9970	342.0290	249.8007	0.7159	73.2041	14.0450	84.5999	31.0879	13.2797	41.6817	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179

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	27.1572	309.9527	153.7294	0.5129	73.2041	11.3959	84.5999	31.0879	10.5939	41.6817	0.0000	52,363.0202	52,363.0202	8.6601	0.0000	52,579.5215
2020	36.9970	342.0290	249.8007	0.7159	32.1435	14.0450	45.4454	11.5875	13.2797	24.6636	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179
Maximum	36.9970	342.0290	249.8007	0.7159	73.2041	14.0450	84.5999	31.0879	13.2797	41.6817	0.0000	71,238.4683	71,238.4683	10.3940	0.0000	71,498.3179

[illegible]

Campo Wind Facilities 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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

Campo Wind Facilities 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 of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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 Wind Facilities Construction Unmitigated - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Operations and maintenance facility	Welders	1	8.00	46	0.45
Clearing and grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Wind turbine foundation construction	Air Compressors	3	8.00	78	0.48
Wind turbine foundation construction	Pumps	1	8.00	84	0.74
Construction of access roads	Rubber Tired Loaders	7	8.00	203	0.36
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
Wind turbine erection	Air Compressors	2	8.00	78	0.48
Wind turbine erection	Pumps	2	8.00	84	0.74
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Pumps	1	8.00	84	0.74
Meteorological towers	Cranes	1	7.00	231	0.29
Wind turbine erection	Cranes	19	7.00	231	0.29
Construction of collector substation	Cranes	1	7.00	231	0.29
Wind turbine foundation construction	Generator Sets	3	8.00	84	0.74
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Clearing and grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and grading	Graders	3	8.00	187	0.41
Clearing and grading	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Meteorological towers	Generator Sets	2	8.00	84	0.74
Wind turbine erection	Generator Sets	3	8.00	84	0.74

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

Construction of collector substation	Generator Sets	2	8.00	84	0.74
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of access roads	Scrapers	3	8.00	367	0.48
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45
Wind turbine erection	Welders	7	8.00	46	0.45
Construction of collector substation	Welders	2	8.00	46	0.45
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45

Trips and VMT

Campo Wind Facilities 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
Meteorological towers	5	24.00	4.00	4.00	25.00	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	15	72.00	108.00	734.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	25.20	47.00	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	lb/day										lb/day					
Fugitive Dust					61.8606	0.0000	61.8606	27.9594	0.0000	27.9594			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	61.8606	7.1432	69.0037	27.9594	6.5943	34.5536		13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Campo Wind Facilities Construction Unmitigated - 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	2.2549	48.5366	13.1606	0.1588	4.6918	0.5687	5.2605	1.3490	0.5440	1.8931		16,999.8483	16,999.8483	0.9079		17,022.5460
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	3.0605	57.2571	19.8908	0.1989	6.6910	0.6163	7.3074	1.8846	0.5893	2.4739		21,241.6415	21,241.6415	1.1734		21,270.9772

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					61.8606	0.0000	61.8606	27.9594	0.0000	27.9594			0.0000			0.0000
Off-Road	14.3396	159.2198	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189
Total	14.3396	159.2198	68.3433	0.1406	61.8606	7.1432	69.0037	27.9594	6.5943	34.5536	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189

Campo Wind Facilities Construction Unmitigated - 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	2.2549	48.5366	13.1606	0.1588	4.6918	0.5687	5.2605	1.3490	0.5440	1.8931		16,999.8483	16,999.8483	0.9079		17,022.5460
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	3.0605	57.2571	19.8908	0.1989	6.6910	0.6163	7.3074	1.8846	0.5893	2.4739		21,241.6415	21,241.6415	1.1734		21,270.9772

3.3 Construction of 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	6.0011	72.6949	35.9945	0.0894		2.6564	2.6564		2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634
Total	6.0011	72.6949	35.9945	0.0894	0.0000	2.6564	2.6564	0.0000	2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	6.0011	72.6949	35.9945	0.0894		2.6564	2.6564		2.4439	2.4439	0.0000	8,852.7406	8,852.7406	2.8009		8,922.7634
Total	6.0011	72.6949	35.9945	0.0894	0.0000	2.6564	2.6564	0.0000	2.4439	2.4439	0.0000	8,852.7406	8,852.7406	2.8009		8,922.7634

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.3 Construction of 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 of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	5.6104	66.2776	33.8810	0.0894		2.4049	2.4049		2.2125	2.2125		8,658.3454	8,658.3454	2.8003		8,728.3525
Total	5.6104	66.2776	33.8810	0.0894	0.0000	2.4049	2.4049	0.0000	2.2125	2.2125		8,658.3454	8,658.3454	2.8003		8,728.3525

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	5.6104	66.2776	33.8810	0.0894		2.4049	2.4049		2.2125	2.2125	0.0000	8,658.3454	8,658.3454	2.8003		8,728.3525
Total	5.6104	66.2776	33.8810	0.0894	0.0000	2.4049	2.4049	0.0000	2.2125	2.2125	0.0000	8,658.3454	8,658.3454	2.8003		8,728.3525

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.3 Construction of 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 Gen-tie 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.4 Gen-tie 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	0.0277	0.8757	0.2099	2.7100e-003	0.0655	4.0600e-003	0.0695	0.0179	3.8800e-003	0.0218		295.9218	295.9218	0.0234		296.5065
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9611	5.9389	7.7516	0.0367	2.3387	0.0690	2.4078	0.6304	0.0656	0.6960		3,788.8189	3,788.8189	0.1661		3,792.9724

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.4 Gen-tie 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	0.0277	0.8757	0.2099	2.7100e-003	0.0655	4.0600e-003	0.0695	0.0179	3.8800e-003	0.0218		295.9218	295.9218	0.0234		296.5065
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
Worker	0.7246	0.5690	6.3231	0.0193	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,918.8372	1,918.8372	0.0587		1,920.3043
Total	0.9611	5.9389	7.7516	0.0367	2.3387	0.0690	2.4078	0.6304	0.0656	0.6960		3,788.8189	3,788.8189	0.1661		3,792.9724

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 Wind Facilities Construction Unmitigated - 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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.1201	3,148.1201	0.1681		3,152.3233
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	2.6493	40.4684	20.8091	0.1575	21.8994	0.2681	22.1675	5.5403	0.2557	5.7960		16,807.5439	16,807.5439	1.0850		16,834.6688

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

Campo Wind Facilities Construction Unmitigated - 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	0.4176	8.9883	2.4372	0.0294	0.8689	0.1053	0.9742	0.2498	0.1008	0.3506		3,148.1201	3,148.1201	0.1681		3,152.3233
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	2.6493	40.4684	20.8091	0.1575	21.8994	0.2681	22.1675	5.5403	0.2557	5.7960		16,807.5439	16,807.5439	1.0850		16,834.6688

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 Wind Facilities Construction Unmitigated - 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	0.3260	7.7741	2.1648	0.0291	0.8688	0.0672	0.9360	0.2498	0.0643	0.3141		3,120.1363	3,120.1363	0.1630		3,124.2120
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	2.3952	36.6626	19.5110	0.1547	6.5578	0.2000	6.7578	1.7746	0.1906	1.9652		16,549.4592	16,549.4592	1.0695		16,576.1962

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

Campo Wind Facilities Construction Unmitigated - 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	0.3260	7.7741	2.1648	0.0291	0.8688	0.0672	0.9360	0.2498	0.0643	0.3141		3,120.1363	3,120.1363	0.1630		3,124.2120
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	2.3952	36.6626	19.5110	0.1547	6.5578	0.2000	6.7578	1.7746	0.1906	1.9652		16,549.4592	16,549.4592	1.0695		16,576.1962

3.6 Gen-tie 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0185	0.5838	0.1399	1.8100e-003	0.8039	2.7000e-003	0.8066	0.1986	2.5900e-003	0.2012		197.2812	197.2812	0.0156		197.6710
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7707	5.5047	6.1009	0.0310	2.6174	0.0646	2.6820	0.6892	0.0615	0.7506		3,210.4691	3,210.4691	0.1437		3,214.0608

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0185	0.5838	0.1399	1.8100e-003	0.8039	2.7000e-003	0.8066	0.1986	2.5900e-003	0.2012		197.2812	197.2812	0.0156		197.6710
Vendor	0.2088	4.4941	1.2186	0.0147	0.4344	0.0527	0.4871	0.1249	0.0504	0.1753		1,574.0600	1,574.0600	0.0841		1,576.1617
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	0.7707	5.5047	6.1009	0.0310	2.6174	0.0646	2.6820	0.6892	0.0615	0.7506		3,210.4691	3,210.4691	0.1437		3,214.0608

3.6 Gen-tie 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0169	0.5360	0.1379	1.7800e-003	0.0451	2.1400e-003	0.0472	0.0123	2.0400e-003	0.0144		194.9064	194.9064	0.0156		195.2958
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6888	4.8087	5.5693	0.0303	1.8586	0.0448	1.9035	0.5029	0.0426	0.5455		3,148.6318	3,148.6318	0.1370		3,152.0563

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.6 Gen-tie 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	0.0169	0.5360	0.1379	1.7800e-003	0.0451	2.1400e-003	0.0472	0.0123	2.0400e-003	0.0144		194.9064	194.9064	0.0156		195.2958
Vendor	0.1630	3.8871	1.0824	0.0146	0.4344	0.0336	0.4680	0.1249	0.0321	0.1571		1,560.0682	1,560.0682	0.0815		1,562.1060
Worker	0.5090	0.3856	4.3490	0.0140	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,393.6572	1,393.6572	0.0399		1,394.6544
Total	0.6888	4.8087	5.5693	0.0303	1.8586	0.0448	1.9035	0.5029	0.0426	0.5455		3,148.6318	3,148.6318	0.1370		3,152.0563

3.7 Construction of underground electrical collection system - 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	3.9926	39.6987	24.2976	0.0375		2.3607	2.3607		2.1718	2.1718		3,636.2619	3,636.2619	1.1760		3,665.6629
Total	3.9926	39.6987	24.2976	0.0375	10.5387	2.3607	12.8993	5.7929	2.1718	7.9647		3,636.2619	3,636.2619	1.1760		3,665.6629

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.7 Construction of underground electrical collection system - 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	0.1956	4.6645	1.2989	0.0175	0.5213	0.0403	0.5616	0.1499	0.0386	0.1885		1,872.0818	1,872.0818	0.0978		1,874.5272
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	1.9599	8.1017	16.3491	0.0712	5.2937	0.0792	5.3728	1.4169	0.0747	1.4915		7,300.0665	7,300.0665	0.2933		7,307.3993

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	3.9926	39.6987	24.2976	0.0375		2.3607	2.3607		2.1718	2.1718	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629
Total	3.9926	39.6987	24.2976	0.0375	10.5387	2.3607	12.8993	5.7929	2.1718	7.9647	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.7 Construction of underground electrical collection system - 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	0.1956	4.6645	1.2989	0.0175	0.5213	0.0403	0.5616	0.1499	0.0386	0.1885		1,872.0818	1,872.0818	0.0978		1,874.5272
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	1.9599	8.1017	16.3491	0.0712	5.2937	0.0792	5.3728	1.4169	0.0747	1.4915		7,300.0665	7,300.0665	0.2933		7,307.3993

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		14,607.9227	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 Wind Facilities Construction Unmitigated - San Diego County, Summer

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	lb/day										lb/day					
Hauling	0.1326	4.2101	1.0828	0.0140	0.3428	0.0168	0.3596	0.0939	0.0161	0.1100		1,530.9013	1,530.9013	0.1224		1,533.9600
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	1.1506	4.9813	9.7809	0.0420	3.1011	0.0350	3.1361	0.8253	0.0328	0.8581		4,318.2157	4,318.2157	0.2021		4,323.2689

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	14,607.9227	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	0.0000	14,607.9227	14,607.9227	3.4571		14,694.3504

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

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	lb/day										lb/day					
Hauling	0.1326	4.2101	1.0828	0.0140	0.3428	0.0168	0.3596	0.0939	0.0161	0.1100		1,530.9013	1,530.9013	0.1224		1,533.9600
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	1.1506	4.9813	9.7809	0.0420	3.1011	0.0350	3.1361	0.8253	0.0328	0.8581		4,318.2157	4,318.2157	0.2021		4,323.2689

3.9 Operations and maintenance facility - 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 Wind Facilities Construction Unmitigated - San Diego County, Summer

3.9 Operations and maintenance facility - 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	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
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	0.9161	2.2805	7.7027	0.0294	2.4791	0.0289	2.5080	0.6613	0.0271	0.6884		2,976.9684	2,976.9684	0.1015		2,979.5058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3212	11.6095	9.3182	0.0169		0.5941	0.5941		0.5692	0.5692	0.0000	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	0.0000	1,582.6257	1,582.6257	0.3090		1,590.3506

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.9 Operations and maintenance facility - 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	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
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	0.9161	2.2805	7.7027	0.0294	2.4791	0.0289	2.5080	0.6613	0.0271	0.6884		2,976.9684	2,976.9684	0.1015		2,979.5058

3.10 Construction of collector substation - 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	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642
Total	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.10 Construction of collector substation - 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	0.0254	0.8069	0.2075	2.6800e-003	0.0657	3.2200e-003	0.0689	0.0180	3.0800e-003	0.0211		293.4228	293.4228	0.0235		294.0090
Vendor	0.0489	1.1661	0.3247	4.3600e-003	0.1303	0.0101	0.1404	0.0375	9.6400e-003	0.0471		468.0205	468.0205	0.0245		468.6318
Worker	0.3393	0.2571	2.8994	9.3200e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		929.1048	929.1048	0.0266		929.7696
Total	0.4136	2.2301	3.4316	0.0164	1.1155	0.0194	1.1348	0.2993	0.0183	0.3176		1,690.5480	1,690.5480	0.0745		1,692.4104

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	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642
Total	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.10 Construction of collector substation - 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	0.0254	0.8069	0.2075	2.6800e-003	0.0657	3.2200e-003	0.0689	0.0180	3.0800e-003	0.0211		293.4228	293.4228	0.0235		294.0090
Vendor	0.0489	1.1661	0.3247	4.3600e-003	0.1303	0.0101	0.1404	0.0375	9.6400e-003	0.0471		468.0205	468.0205	0.0245		468.6318
Worker	0.3393	0.2571	2.8994	9.3200e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		929.1048	929.1048	0.0266		929.7696
Total	0.4136	2.2301	3.4316	0.0164	1.1155	0.0194	1.1348	0.2993	0.0183	0.3176		1,690.5480	1,690.5480	0.0745		1,692.4104

3.11 Meteorological 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 Wind Facilities Construction Unmitigated - San Diego County, Summer

3.11 Meteorological 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	3.2400e-003	0.1029	0.0265	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	3.9000e-004	2.6900e-003		37.4220	37.4220	2.9900e-003		37.4968
Vendor	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
Worker	0.1685	0.1276	1.4390	4.6200e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		460.9095	460.9095	0.0132		461.2393
Total	0.2370	1.7853	1.8984	0.0108	0.6382	0.0169	0.6551	0.1732	0.0160	0.1892		1,122.3587	1,122.3587	0.0488		1,123.5785

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	2,205.6602	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	0.0000	2,205.6602	2,205.6602	0.3441		2,214.2622

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

3.11 Meteorological 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	3.2400e-003	0.1029	0.0265	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	3.9000e-004	2.6900e-003		37.4220	37.4220	2.9900e-003		37.4968
Vendor	0.0652	1.5548	0.4330	5.8200e-003	0.1738	0.0134	0.1872	0.0500	0.0129	0.0628		624.0273	624.0273	0.0326		624.8424
Worker	0.1685	0.1276	1.4390	4.6200e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		460.9095	460.9095	0.0132		461.2393
Total	0.2370	1.7853	1.8984	0.0108	0.6382	0.0169	0.6551	0.1732	0.0160	0.1892		1,122.3587	1,122.3587	0.0488		1,123.5785

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

Campo Wind Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Wind Facilities Construction Unmitigated - 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	0.0000	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

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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**

Campo Wind Facilities 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	0.6853	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	0.6853	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	0.0000					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	0.6853	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 Wind Facilities 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	0.0000					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	0.6853	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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Campo Wind Facilities Construction Unmitigated - San Diego County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

Campo Wind Facilities 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/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

Project Characteristics - Unmitigated construction only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading - Data provided by Developer.

Trips and VMT - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaCoating	Area_Parking	112385	0

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	30.00	110.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	PhaseEndDate	6/6/2022	3/28/2020
tblConstructionPhase	PhaseEndDate	8/5/2019	11/26/2019
tblConstructionPhase	PhaseStartDate	8/6/2019	12/22/2019
tblConstructionPhase	PhaseStartDate	4/23/2019	9/1/2019
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Trenchers
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Pumps
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tbloffRoadEquipment	UsageHours	8.00	7.00
tbloffRoadEquipment	UsageHours	8.00	6.00
tbloffRoadEquipment	UsageHours	8.00	7.00

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
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	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	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripLength	6.60	47.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripLength	16.80	25.00
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
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tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	787.00	24.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities 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	27.5846	311.7512	152.4182	0.5083	73.2041	11.3980	84.6021	31.0879	10.5960	41.6838	0.0000	51,898.81 43	51,898.81 43	8.6675	0.0000	52,115.50 25
2020	38.0852	343.8114	245.5423	0.7048	32.1435	14.0465	45.4468	11.5875	13.2810	24.6649	0.0000	70,121.82 21	70,121.82 21	10.3810	0.0000	70,381.34 78
Maximum	38.0852	343.8114	245.5423	0.7048	73.2041	14.0465	84.6021	31.0879	13.2810	41.6838	0.0000	70,121.82 21	70,121.82 21	10.3810	0.0000	70,381.34 78

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	27.5846	311.7512	152.4182	0.5083	73.2041	11.3980	84.6021	31.0879	10.5960	41.6838	0.0000	51,898.8143	51,898.8143	8.6675	0.0000	52,115.5025
2020	38.0852	343.8114	245.5423	0.7048	32.1435	14.0465	45.4468	11.5875	13.2810	24.6649	0.0000	70,121.8221	70,121.8221	10.3810	0.0000	70,381.3477
Maximum	38.0852	343.8114	245.5423	0.7048	73.2041	14.0465	84.6021	31.0879	13.2810	41.6838	0.0000	70,121.8221	70,121.8221	10.3810	0.0000	70,381.3477

[illegible]

Campo Wind Facilities 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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

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	0.6853	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	0.0000	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	0.0000	0.0000	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	0.6853	4.0000e-005	4.5100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005		9.6300e-003	9.6300e-003	3.0000e-005	0.0000	0.0103

Campo Wind Facilities 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 of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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 Wind Facilities Construction Unmitigated - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Operations and maintenance facility	Welders	1	8.00	46	0.45
Clearing and grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Wind turbine foundation construction	Air Compressors	3	8.00	78	0.48
Wind turbine foundation construction	Pumps	1	8.00	84	0.74
Construction of access roads	Rubber Tired Loaders	7	8.00	203	0.36
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
Wind turbine erection	Air Compressors	2	8.00	78	0.48
Wind turbine erection	Pumps	2	8.00	84	0.74
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Pumps	1	8.00	84	0.74
Meteorological towers	Cranes	1	7.00	231	0.29
Wind turbine erection	Cranes	19	7.00	231	0.29
Construction of collector substation	Cranes	1	7.00	231	0.29
Wind turbine foundation construction	Generator Sets	3	8.00	84	0.74
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Clearing and grading	Rubber Tired Dozers	8	8.00	247	0.40
Clearing and grading	Graders	3	8.00	187	0.41
Clearing and grading	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Meteorological towers	Generator Sets	2	8.00	84	0.74
Wind turbine erection	Generator Sets	3	8.00	84	0.74

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

Construction of collector substation	Generator Sets	2	8.00	84	0.74
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of access roads	Scrapers	3	8.00	367	0.48
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45
Wind turbine erection	Welders	7	8.00	46	0.45
Construction of collector substation	Welders	2	8.00	46	0.45
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45

Trips and VMT

Campo Wind Facilities 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
Meteorological towers	5	24.00	4.00	4.00	25.00	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	15	72.00	108.00	734.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	25.20	47.00	60.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	25.20	47.00	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	lb/day										lb/day					
Fugitive Dust					61.8606	0.0000	61.8606	27.9594	0.0000	27.9594			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	61.8606	7.1432	69.0037	27.9594	6.5943	34.5536		13,900.28 29	13,900.28 29	4.2414		14,006.31 89

Campo Wind Facilities Construction Unmitigated - 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	2.2918	49.7826	13.4299	0.1580	4.6918	0.5703	5.2621	1.3490	0.5456	1.8946		16,918.6714	16,918.6714	0.9221		16,941.7247
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	3.1962	58.7594	19.7906	0.1971	6.6910	0.6183	7.3093	1.8846	0.5912	2.4758		21,054.1718	21,054.1718	1.1879		21,083.8704

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					61.8606	0.0000	61.8606	27.9594	0.0000	27.9594			0.0000			0.0000
Off-Road	14.3396	159.2198	68.3433	0.1406		7.1432	7.1432		6.5943	6.5943	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189
Total	14.3396	159.2198	68.3433	0.1406	61.8606	7.1432	69.0037	27.9594	6.5943	34.5536	0.0000	13,900.2829	13,900.2829	4.2414		14,006.3189

Campo Wind Facilities Construction Unmitigated - 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	2.2918	49.7826	13.4299	0.1580	4.6918	0.5703	5.2621	1.3490	0.5456	1.8946		16,918.6714	16,918.6714	0.9221		16,941.7247
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	3.1962	58.7594	19.7906	0.1971	6.6910	0.6183	7.3093	1.8846	0.5912	2.4758		21,054.1718	21,054.1718	1.1879		21,083.8704

3.3 Construction of 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	6.0011	72.6949	35.9945	0.0894		2.6564	2.6564		2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634
Total	6.0011	72.6949	35.9945	0.0894	0.0000	2.6564	2.6564	0.0000	2.4439	2.4439		8,852.7406	8,852.7406	2.8009		8,922.7634

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	6.0011	72.6949	35.9945	0.0894		2.6564	2.6564		2.4439	2.4439	0.0000	8,852.7406	8,852.7406	2.8009		8,922.7634
Total	6.0011	72.6949	35.9945	0.0894	0.0000	2.6564	2.6564	0.0000	2.4439	2.4439	0.0000	8,852.7406	8,852.7406	2.8009		8,922.7634

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.3 Construction of 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		2,250.128 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

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	5.6104	66.2776	33.8810	0.0894		2.4049	2.4049		2.2125	2.2125		8,658.345 4	8,658.345 4	2.8003		8,728.352 5
Total	5.6104	66.2776	33.8810	0.0894	0.0000	2.4049	2.4049	0.0000	2.2125	2.2125		8,658.345 4	8,658.345 4	2.8003		8,728.352 5

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	5.6104	66.2776	33.8810	0.0894		2.4049	2.4049		2.2125	2.2125	0.0000	8,658.3454	8,658.3454	2.8003		8,728.3525
Total	5.6104	66.2776	33.8810	0.0894	0.0000	2.4049	2.4049	0.0000	2.2125	2.2125	0.0000	8,658.3454	8,658.3454	2.8003		8,728.3525

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.3 Construction of 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 Gen-tie 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.4 Gen-tie 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	0.0280	0.8973	0.2146	2.7000e-003	0.0655	4.0900e-003	0.0696	0.0179	3.9100e-003	0.0219		294.1013	294.1013	0.0237		294.6944
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.0928	6.1453	7.2295	0.0354	2.3387	0.0692	2.4079	0.6304	0.0658	0.6962		3,660.7474	3,660.7474	0.1639		3,664.8452

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.4 Gen-tie 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	0.0280	0.8973	0.2146	2.7000e-003	0.0655	4.0900e-003	0.0696	0.0179	3.9100e-003	0.0219		294.1013	294.1013	0.0237		294.6944
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
Worker	0.8526	0.6385	5.7714	0.0181	1.8388	0.0123	1.8512	0.4876	0.0113	0.4989		1,800.1025	1,800.1025	0.0548		1,801.4726
Total	1.0928	6.1453	7.2295	0.0354	2.3387	0.0692	2.4079	0.6304	0.0658	0.6962		3,660.7474	3,660.7474	0.1639		3,664.8452

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 Wind Facilities Construction Unmitigated - 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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.0873	3,133.0873	0.1708		3,137.3564
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	2.8904	41.5715	20.0563	0.1547	21.8994	0.2695	22.1689	5.5403	0.2571	5.7974		16,521.3518	16,521.3518	1.0926		16,548.6669

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

Campo Wind Facilities Construction Unmitigated - 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	0.4244	9.2190	2.4870	0.0293	0.8689	0.1056	0.9745	0.2498	0.1010	0.3509		3,133.0873	3,133.0873	0.1708		3,137.3564
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	2.8904	41.5715	20.0563	0.1547	21.8994	0.2695	22.1689	5.5403	0.2571	5.7974		16,521.3518	16,521.3518	1.0926		16,548.6669

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 Wind Facilities Construction Unmitigated - 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	0.3322	7.9671	2.2096	0.0290	0.8688	0.0674	0.9363	0.2498	0.0645	0.3143		3,104.980 6	3,104.980 6	0.1655		3,109.118 4
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	2.6235	37.6447	18.7935	0.1520	6.5578	0.2010	6.7588	1.7746	0.1915	1.9662		16,269.10 51	16,269.10 51	1.0766		16,296.02 03

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	3,617.930 5	3,617.930 5	0.2297		3,623.672 6
Total	2.5891	20.7002	22.2049	0.0382		1.2397	1.2397		1.2397	1.2397	0.0000	3,617.930 5	3,617.930 5	0.2297		3,623.672 6

Campo Wind Facilities Construction Unmitigated - 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		10,113.528 2	10,113.528 2	0.8244		10,134.13 70
Vendor	0.3322	7.9671	2.2096	0.0290	0.8688	0.0674	0.9363	0.2498	0.0645	0.3143		3,104.980 6	3,104.980 6	0.1655		3,109.1184
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	2.6235	37.6447	18.7935	0.1520	6.5578	0.2010	6.7588	1.7746	0.1915	1.9662		16,269.10 51	16,269.10 51	1.0766		16,296.02 03

3.6 Gen-tie 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0187	0.5982	0.1430	1.8000e-003	0.8039	2.7300e-003	0.8066	0.1986	2.6100e-003	0.2012		196.0675	196.0675	0.0158		196.4629
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8703	5.6866	5.7151	0.0300	2.6174	0.0648	2.6822	0.6892	0.0616	0.7508		3,112.6881	3,112.6881	0.1423		3,116.2456

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0187	0.5982	0.1430	1.8000e-003	0.8039	2.7300e-003	0.8066	0.1986	2.6100e-003	0.2012		196.0675	196.0675	0.0158		196.4629
Vendor	0.2122	4.6095	1.2435	0.0146	0.4344	0.0528	0.4872	0.1249	0.0505	0.1754		1,566.5436	1,566.5436	0.0854		1,568.6782
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	0.8703	5.6866	5.7151	0.0300	2.6174	0.0648	2.6822	0.6892	0.0616	0.7508		3,112.6881	3,112.6881	0.1423		3,116.2456

3.6 Gen-tie 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0171	0.5490	0.1406	1.7700e-003	0.0451	2.1500e-003	0.0472	0.0123	2.0600e-003	0.0144		193.6821	193.6821	0.0158		194.0768
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7834	4.9652	5.2065	0.0294	1.8586	0.0449	1.9036	0.5029	0.0427	0.5456		3,053.5709	3,053.5709	0.1357		3,056.9638

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.6 Gen-tie 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	0.0171	0.5490	0.1406	1.7700e-003	0.0451	2.1500e-003	0.0472	0.0123	2.0600e-003	0.0144		193.6821	193.6821	0.0158		194.0768
Vendor	0.1661	3.9836	1.1048	0.0145	0.4344	0.0337	0.4681	0.1249	0.0322	0.1572		1,552.4903	1,552.4903	0.0828		1,554.5592
Worker	0.6002	0.4326	3.9611	0.0131	1.3791	9.0800e-003	1.3882	0.3657	8.3700e-003	0.3741		1,307.3984	1,307.3984	0.0372		1,308.3278
Total	0.7834	4.9652	5.2065	0.0294	1.8586	0.0449	1.9036	0.5029	0.0427	0.5456		3,053.5709	3,053.5709	0.1357		3,056.9638

3.7 Construction of underground electrical collection system - 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	3.9926	39.6987	24.2976	0.0375		2.3607	2.3607		2.1718	2.1718		3,636.2619	3,636.2619	1.1760		3,665.6629
Total	3.9926	39.6987	24.2976	0.0375	10.5387	2.3607	12.8993	5.7929	2.1718	7.9647		3,636.2619	3,636.2619	1.1760		3,665.6629

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.7 Construction of underground electrical collection system - 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	0.1993	4.7803	1.3258	0.0174	0.5213	0.0404	0.5618	0.1499	0.0387	0.1886		1,862.9884	1,862.9884	0.0993		1,865.4710
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	2.2685	8.4263	15.0938	0.0682	5.2937	0.0794	5.3730	1.4169	0.0749	1.4917		6,998.5289	6,998.5289	0.2866		7,005.6939

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	3.9926	39.6987	24.2976	0.0375		2.3607	2.3607		2.1718	2.1718	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629
Total	3.9926	39.6987	24.2976	0.0375	10.5387	2.3607	12.8993	5.7929	2.1718	7.9647	0.0000	3,636.2618	3,636.2618	1.1760		3,665.6629

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.7 Construction of underground electrical collection system - 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	0.1993	4.7803	1.3258	0.0174	0.5213	0.0404	0.5618	0.1499	0.0387	0.1886		1,862.9884	1,862.9884	0.0993		1,865.4710
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	2.2685	8.4263	15.0938	0.0682	5.2937	0.0794	5.3730	1.4169	0.0749	1.4917		6,998.5289	6,998.5289	0.2866		7,005.6939

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		14,607.9227	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 Wind Facilities Construction Unmitigated - San Diego County, Winter

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	lb/day										lb/day					
Hauling	0.1340	4.3123	1.1043	0.0139	0.3428	0.0169	0.3598	0.0939	0.0162	0.1101		1,521.285 2	1,521.285 2	0.1240		1,524.385 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	1.3344	5.1775	9.0264	0.0401	3.1011	0.0351	3.1362	0.8253	0.0329	0.8582		4,136.082 1	4,136.082 1	0.1984		4,141.040 8

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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

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	lb/day										lb/day					
Hauling	0.1340	4.3123	1.1043	0.0139	0.3428	0.0169	0.3598	0.0939	0.0162	0.1101		1,521.285 2	1,521.285 2	0.1240		1,524.385 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	1.3344	5.1775	9.0264	0.0401	3.1011	0.0351	3.1362	0.8253	0.0329	0.8582		4,136.082 1	4,136.082 1	0.1984		4,141.040 8

3.9 Operations and maintenance facility - 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

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.9 Operations and maintenance facility - 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	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
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	1.0694	2.3994	7.0655	0.0279	2.4791	0.0290	2.5080	0.6613	0.0272	0.6885		2,829.9830	2,829.9830	0.0975		2,832.4206

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	1,582.6257	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	0.0000	1,582.6257	1,582.6257	0.3090		1,590.3506

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.9 Operations and maintenance facility - 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	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
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	1.0694	2.3994	7.0655	0.0279	2.4791	0.0290	2.5080	0.6613	0.0272	0.6885		2,829.9830	2,829.9830	0.0975		2,832.4206

3.10 Construction of collector substation - 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	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642
Total	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218		3,937.7815	3,937.7815	0.6113		3,953.0642

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.10 Construction of collector substation - 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	0.0257	0.8265	0.2117	2.6600e-003	0.0657	3.2400e-003	0.0690	0.0180	3.1000e-003	0.0211		291.5797	291.5797	0.0238		292.1738
Vendor	0.0498	1.1951	0.3315	4.3400e-003	0.1303	0.0101	0.1404	0.0375	9.6700e-003	0.0471		465.7471	465.7471	0.0248		466.3678
Worker	0.4001	0.2884	2.6407	8.7400e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		871.5990	871.5990	0.0248		872.2185
Total	0.4757	2.3100	3.1838	0.0157	1.1155	0.0194	1.1349	0.2993	0.0184	0.3176		1,628.9257	1,628.9257	0.0734		1,630.7601

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	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642
Total	3.1750	26.1176	24.9847	0.0420		1.4653	1.4653		1.4218	1.4218	0.0000	3,937.7815	3,937.7815	0.6113		3,953.0642

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.10 Construction of collector substation - 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	0.0257	0.8265	0.2117	2.6600e-003	0.0657	3.2400e-003	0.0690	0.0180	3.1000e-003	0.0211		291.5797	291.5797	0.0238		292.1738
Vendor	0.0498	1.1951	0.3315	4.3400e-003	0.1303	0.0101	0.1404	0.0375	9.6700e-003	0.0471		465.7471	465.7471	0.0248		466.3678
Worker	0.4001	0.2884	2.6407	8.7400e-003	0.9194	6.0600e-003	0.9255	0.2438	5.5800e-003	0.2494		871.5990	871.5990	0.0248		872.2185
Total	0.4757	2.3100	3.1838	0.0157	1.1155	0.0194	1.1349	0.2993	0.0184	0.3176		1,628.9257	1,628.9257	0.0734		1,630.7601

3.11 Meteorological 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 Wind Facilities Construction Unmitigated - San Diego County, Winter

3.11 Meteorological 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	3.2800e-003	0.1054	0.0270	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	4.0000e-004	2.6900e-003		37.1870	37.1870	3.0300e-003		37.2628
Vendor	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
Worker	0.1987	0.1431	1.3109	4.3400e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		432.3838	432.3838	0.0123		432.6913
Total	0.2684	1.8420	1.7799	0.0105	0.6382	0.0169	0.6551	0.1732	0.0161	0.1893		1,090.5669	1,090.5669	0.0484		1,091.7777

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	2,205.6602	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	0.0000	2,205.6602	2,205.6602	0.3441		2,214.2622

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

3.11 Meteorological 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	3.2800e-003	0.1054	0.0270	3.4000e-004	8.3800e-003	4.1000e-004	8.7900e-003	2.3000e-003	4.0000e-004	2.6900e-003		37.1870	37.1870	3.0300e-003		37.2628
Vendor	0.0664	1.5934	0.4419	5.7900e-003	0.1738	0.0135	0.1873	0.0500	0.0129	0.0629		620.9961	620.9961	0.0331		621.8237
Worker	0.1987	0.1431	1.3109	4.3400e-003	0.4561	3.0100e-003	0.4591	0.1209	2.7700e-003	0.1237		432.3838	432.3838	0.0123		432.6913
Total	0.2684	1.8420	1.7799	0.0105	0.6382	0.0169	0.6551	0.1732	0.0161	0.1893		1,090.5669	1,090.5669	0.0484		1,091.7777

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

Campo Wind Facilities 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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 Wind Facilities Construction Unmitigated - 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	0.0000	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

Campo Wind Facilities 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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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**

Campo Wind Facilities 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	0.6853	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	0.6853	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	0.0000					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	0.6853	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 Wind Facilities 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	0.0000					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	0.6853	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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Campo Wind Facilities Construction Unmitigated - San Diego County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

Campo Wind Facilities Decommissioning 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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

Project Characteristics - Mitigated Campo Wind Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading -

Trips and VMT - Data provided by Developer.

Architectural Coating - No architectural coating.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	PhaseEndDate	6/22/2050	8/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts

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tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,178.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	0.00	168.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2050	0.3850	1.1042	3.8090	0.0123	0.2532	0.0231	0.2763	0.0676	0.0230	0.0906	0.0000	1,175.360 3	1,175.360 3	0.0414	0.0000	1,176.394 2
Maximum	0.3850	1.1042	3.8090	0.0123	0.2532	0.0231	0.2763	0.0676	0.0230	0.0906	0.0000	1,175.360 3	1,175.360 3	0.0414	0.0000	1,176.394 2

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					
2050	0.3227	0.7142	3.9585	0.0123	0.2532	0.0206	0.2738	0.0676	0.0205	0.0881	0.0000	1,175.359 2	1,175.359 2	0.0414	0.0000	1,176.393 0
Maximum	0.3227	0.7142	3.9585	0.0123	0.2532	0.0206	0.2738	0.0676	0.0205	0.0881	0.0000	1,175.359 2	1,175.359 2	0.0414	0.0000	1,176.393 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.18	35.32	-3.92	0.00	0.00	10.91	0.91	0.00	10.98	2.78	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	1-1-2050	3-31-2050	0.7287	0.5039
2	4-1-2050	6-30-2050	0.7317	0.5044
3	7-1-2050	9-30-2050	0.0275	0.0274
		Highest	0.7317	0.5044

2.2 Overall Operational

Unmitigated Operational

[illegible]

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					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	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	Site disassembly and removal	Building Construction	1/1/2050	7/1/2050	5	130	
2	Site cleanup and restoration	Architectural Coating	7/1/2050	8/1/2050	5	22	

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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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site disassembly and removal	Generator Sets	2	8.00	84	0.74
Site disassembly and removal	Off-Highway Trucks	6	8.00	402	0.38
Site disassembly and removal	Other Construction Equipment	4	8.00	172	0.42
Site disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
Site disassembly and removal	Rough Terrain Forklifts	4	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	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
Site cleanup and restoration	2	72.00	0.00	0.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT
Site disassembly and removal	17	168.00	0.00	1,178.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site disassembly and removal - 2050**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	0.3471	0.9167	3.4372	9.6700e-003		0.0219	0.0219		0.0219	0.0219	0.0000	921.4456	921.4456	0.0278	0.0000	922.1411
Total	0.3471	0.9167	3.4372	9.6700e-003		0.0219	0.0219		0.0219	0.0219	0.0000	921.4456	921.4456	0.0278	0.0000	922.1411

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

3.2 Site disassembly and removal - 2050**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	7.4800e-003	0.1550	0.1120	1.2300e-003	0.0342	4.6000e-004	0.0347	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	125.5092	125.5092	0.0115	0.0000	125.7961
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	0.0248	0.0192	0.2112	1.2200e-003	0.2042	4.2000e-004	0.2046	0.0542	3.9000e-004	0.0546	0.0000	110.3612	110.3612	1.6400e-003	0.0000	110.4021
Total	0.0323	0.1742	0.3232	2.4500e-003	0.2384	8.8000e-004	0.2393	0.0636	8.3000e-004	0.0645	0.0000	235.8704	235.8704	0.0131	0.0000	236.1981

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	0.2872	0.5221	3.5701	9.6700e-003		0.0195	0.0195		0.0195	0.0195	0.0000	921.4445	921.4445	0.0278	0.0000	922.1400
Total	0.2872	0.5221	3.5701	9.6700e-003		0.0195	0.0195		0.0195	0.0195	0.0000	921.4445	921.4445	0.0278	0.0000	922.1400

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

3.2 Site disassembly and removal - 2050**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	7.4800e-003	0.1550	0.1120	1.2300e-003	0.0342	4.6000e-004	0.0347	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	125.5092	125.5092	0.0115	0.0000	125.7961
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	0.0248	0.0192	0.2112	1.2200e-003	0.2042	4.2000e-004	0.2046	0.0542	3.9000e-004	0.0546	0.0000	110.3612	110.3612	1.6400e-003	0.0000	110.4021
Total	0.0323	0.1742	0.3232	2.4500e-003	0.2384	8.8000e-004	0.2393	0.0636	8.3000e-004	0.0645	0.0000	235.8704	235.8704	0.0131	0.0000	236.1981

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	0.0120	0.0333	1.2000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477
Total	3.7700e-003	0.0120	0.0333	1.2000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072
Total	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0166	0.0498	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477
Total	1.4500e-003	0.0166	0.0498	1.2000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072
Total	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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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	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			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	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		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003					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	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		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003					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 Facilities Decommissioning Mitigated - San Diego County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities Decommissioning 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities Decommissioning 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Campo Wind Facilities Decommissioning 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
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Boilers

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

Campo Wind Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

Project Characteristics - Mitigated Campo Wind Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading -

Trips and VMT - Data provided by Developer.

Architectural Coating - No architectural coating.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	PhaseEndDate	6/22/2050	8/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,178.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	0.00	168.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Decommissioning 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					
2050	6.3197	17.8999	62.7548	0.2066	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,588.84 97	21,588.84 97	0.7393	0.0000	21,607.33 27
Maximum	6.3197	17.8999	62.7548	0.2066	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,588.84 97	21,588.84 97	0.7393	0.0000	21,607.33 27

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					
2050	5.1860	12.2457	66.3055	0.2066	5.1351	0.3305	5.4656	1.3664	0.3295	1.6958	0.0000	21,588.84 97	21,588.84 97	0.7393	0.0000	21,607.33 26
Maximum	5.1860	12.2457	66.3055	0.2066	5.1351	0.3305	5.4656	1.3664	0.3295	1.6958	0.0000	21,588.84 97	21,588.84 97	0.7393	0.0000	21,607.33 26

	ROG	NOx	CO	SO2	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	17.94	31.59	-5.66	0.00	0.00	12.27	0.84	0.00	12.30	2.65	0.00	0.00	0.00	0.00	0.00	0.00

Campo Wind Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Campo Wind Facilities Decommissioning 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	Site disassembly and removal	Building Construction	1/1/2050	7/1/2050	5	130	
2	Site cleanup and restoration	Architectural Coating	7/1/2050	8/1/2050	5	22	

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site disassembly and removal	Generator Sets	2	8.00	84	0.74
Site disassembly and removal	Off-Highway Trucks	6	8.00	402	0.38
Site disassembly and removal	Other Construction Equipment	4	8.00	172	0.42
Site disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
Site disassembly and removal	Rough Terrain Forklifts	4	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

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
Site cleanup and restoration	2	72.00	0.00	0.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT
Site disassembly and removal	17	168.00	0.00	1,178.00	25.20	0.00	68.00	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

3.2 Site disassembly and removal - 2050**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	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552
Total	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

3.2 Site disassembly and removal - 2050**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	0.1147	2.3220	1.7202	0.0190	0.5380	7.0200e-003	0.5450	0.1474	6.7100e-003	0.1541		2,133.3829	2,133.3829	0.1941		2,138.2360
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	0.3654	0.2689	3.5928	0.0198	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,976.0265	1,976.0265	0.0297		1,976.7698
Total	0.4801	2.5909	5.3129	0.0388	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		4,109.4094	4,109.4094	0.2239		4,115.0059

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.4177	8.0315	54.9242	0.1487		0.3001	0.3001		0.3001	0.3001	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551
Total	4.4177	8.0315	54.9242	0.1487		0.3001	0.3001		0.3001	0.3001	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

3.2 Site disassembly and removal - 2050**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	0.1147	2.3220	1.7202	0.0190	0.5380	7.0200e-003	0.5450	0.1474	6.7100e-003	0.1541		2,133.3829	2,133.3829	0.1941		2,138.2360
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	0.3654	0.2689	3.5928	0.0198	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,976.0265	1,976.0265	0.0297		1,976.7698
Total	0.4801	2.5909	5.3129	0.0388	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		4,109.4094	4,109.4094	0.2239		4,115.0059

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871
Total	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871
Total	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871

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

Campo Wind Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Facilities Decommissioning Mitigated - 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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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 Facilities Decommissioning Mitigated - 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	0.0000	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	0.0214	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	0.0214	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

Campo Wind Facilities Decommissioning Mitigated - 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	0.0214					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	0.0214	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	0.0000					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	0.0214	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

Campo Wind Facilities Decommissioning Mitigated - 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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

Campo Wind Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

Project Characteristics - Mitigated Campo Wind Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading -

Trips and VMT - Data provided by Developer.

Architectural Coating - No architectural coating.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Construction Off-road Equipment Mitigation - Mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	PhaseEndDate	6/22/2050	8/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,178.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	0.00	168.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Decommissioning 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					
2050	6.4320	17.9916	62.2048	0.2047	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3398
Maximum	6.4320	17.9916	62.2048	0.2047	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3398

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					
2050	5.2983	12.3374	65.7554	0.2047	5.1351	0.3305	5.4656	1.3664	0.3295	1.6958	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3397
Maximum	5.2983	12.3374	65.7554	0.2047	5.1351	0.3305	5.4656	1.3664	0.3295	1.6958	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3397

	ROG	NOx	CO	SO2	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	17.63	31.43	-5.71	0.00	0.00	12.27	0.84	0.00	12.30	2.65	0.00	0.00	0.00	0.00	0.00	0.00

Campo Wind Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Campo Wind Facilities Decommissioning 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	Site disassembly and removal	Building Construction	1/1/2050	7/1/2050	5	130	
2	Site cleanup and restoration	Architectural Coating	7/1/2050	8/1/2050	5	22	

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site disassembly and removal	Generator Sets	2	8.00	84	0.74
Site disassembly and removal	Off-Highway Trucks	6	8.00	402	0.38
Site disassembly and removal	Other Construction Equipment	4	8.00	172	0.42
Site disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
Site disassembly and removal	Rough Terrain Forklifts	4	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

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
Site cleanup and restoration	2	72.00	0.00	0.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT
Site disassembly and removal	17	168.00	0.00	1,178.00	25.20	0.00	68.00	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

3.2 Site disassembly and removal - 2050**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	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552
Total	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

3.2 Site disassembly and removal - 2050**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	0.1158	2.3693	1.7317	0.0189	0.5380	7.0300e-003	0.5450	0.1474	6.7200e-003	0.1541		2,121.6739	2,121.6739	0.1952		2,126.5531
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	0.4433	0.3000	3.1996	0.0185	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,852.6700	1,852.6700	0.0273		1,853.3528
Total	0.5590	2.6693	4.9313	0.0374	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		3,974.3440	3,974.3440	0.2225		3,979.9060

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.4177	8.0315	54.9242	0.1487		0.3001	0.3001		0.3001	0.3001	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551
Total	4.4177	8.0315	54.9242	0.1487		0.3001	0.3001		0.3001	0.3001	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

3.2 Site disassembly and removal - 2050**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	0.1158	2.3693	1.7317	0.0189	0.5380	7.0300e-003	0.5450	0.1474	6.7200e-003	0.1541		2,121.6739	2,121.6739	0.1952		2,126.5531
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	0.4433	0.3000	3.1996	0.0185	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,852.6700	1,852.6700	0.0273		1,853.3528
Total	0.5590	2.6693	4.9313	0.0374	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		3,974.3440	3,974.3440	0.2225		3,979.9060

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941
Total	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.1316	1.5080	4.5285	0.0106		0.0142	0.0142		0.0142	0.0142	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Mitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941
Total	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941

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

Campo Wind Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Facilities Decommissioning Mitigated - 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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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 Facilities Decommissioning Mitigated - 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	0.0000	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	0.0214	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	0.0214	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

Campo Wind Facilities Decommissioning Mitigated - 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	0.0214					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	0.0214	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	0.0000					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	0.0214	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

Campo Wind Facilities Decommissioning Mitigated - 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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

Campo Wind Facilities Decommissioning 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

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

Project Characteristics - Unmitigated Campo Wind Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading -

Trips and VMT - Data provided by Developer.

Architectural Coating - No architectural coating.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	PhaseEndDate	6/22/2050	8/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050

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tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,178.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	72.00

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tblTripsAndVMT	WorkerTripNumber	0.00	168.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2050	0.3850	1.1042	3.8090	0.0123	0.2532	0.0231	0.2763	0.0676	0.0230	0.0906	0.0000	1,175.3603	1,175.3603	0.0414	0.0000	1,176.3942
Maximum	0.3850	1.1042	3.8090	0.0123	0.2532	0.0231	0.2763	0.0676	0.0230	0.0906	0.0000	1,175.3603	1,175.3603	0.0414	0.0000	1,176.3942

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					
2050	0.3850	1.1042	3.8090	0.0123	0.2532	0.0231	0.2763	0.0676	0.0230	0.0906	0.0000	1,175.3592	1,175.3592	0.0414	0.0000	1,176.3930
Maximum	0.3850	1.1042	3.8090	0.0123	0.2532	0.0231	0.2763	0.0676	0.0230	0.0906	0.0000	1,175.3592	1,175.3592	0.0414	0.0000	1,176.3930

[illegible]

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2050	3-31-2050	0.7287	0.7287
2	4-1-2050	6-30-2050	0.7317	0.7317
3	7-1-2050	9-30-2050	0.0275	0.0275
		Highest	0.7317	0.7317

2.2 Overall Operational

Unmitigated Operational

[illegible]

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.9100e-003					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	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	Site disassembly and removal	Building Construction	1/1/2050	7/1/2050	5	130	
2	Site cleanup and restoration	Architectural Coating	7/1/2050	8/1/2050	5	22	

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site disassembly and removal	Generator Sets	2	8.00	84	0.74
Site disassembly and removal	Off-Highway Trucks	6	8.00	402	0.38
Site disassembly and removal	Other Construction Equipment	4	8.00	172	0.42
Site disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
Site disassembly and removal	Rough Terrain Forklifts	4	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	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
Site cleanup and restoration	2	72.00	0.00	0.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT
Site disassembly and removal	17	168.00	0.00	1,178.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

3.2 Site disassembly and removal - 2050**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	0.3471	0.9167	3.4372	9.6700e-003		0.0219	0.0219		0.0219	0.0219	0.0000	921.4456	921.4456	0.0278	0.0000	922.1411
Total	0.3471	0.9167	3.4372	9.6700e-003		0.0219	0.0219		0.0219	0.0219	0.0000	921.4456	921.4456	0.0278	0.0000	922.1411

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	7.4800e-003	0.1550	0.1120	1.2300e-003	0.0342	4.6000e-004	0.0347	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	125.5092	125.5092	0.0115	0.0000	125.7961
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	0.0248	0.0192	0.2112	1.2200e-003	0.2042	4.2000e-004	0.2046	0.0542	3.9000e-004	0.0546	0.0000	110.3612	110.3612	1.6400e-003	0.0000	110.4021
Total	0.0323	0.1742	0.3232	2.4500e-003	0.2384	8.8000e-004	0.2393	0.0636	8.3000e-004	0.0645	0.0000	235.8704	235.8704	0.0131	0.0000	236.1981

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

3.2 Site disassembly and removal - 2050**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	0.3471	0.9167	3.4372	9.6700e-003		0.0219	0.0219		0.0219	0.0219	0.0000	921.4445	921.4445	0.0278	0.0000	922.1400
Total	0.3471	0.9167	3.4372	9.6700e-003		0.0219	0.0219		0.0219	0.0219	0.0000	921.4445	921.4445	0.0278	0.0000	922.1400

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	7.4800e-003	0.1550	0.1120	1.2300e-003	0.0342	4.6000e-004	0.0347	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	125.5092	125.5092	0.0115	0.0000	125.7961
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	0.0248	0.0192	0.2112	1.2200e-003	0.2042	4.2000e-004	0.2046	0.0542	3.9000e-004	0.0546	0.0000	110.3612	110.3612	1.6400e-003	0.0000	110.4021
Total	0.0323	0.1742	0.3232	2.4500e-003	0.2384	8.8000e-004	0.2393	0.0636	8.3000e-004	0.0645	0.0000	235.8704	235.8704	0.0131	0.0000	236.1981

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	0.0120	0.0333	1.2000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477
Total	3.7700e-003	0.0120	0.0333	1.2000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477

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	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072
Total	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	0.0120	0.0333	1.2000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477
Total	3.7700e-003	0.0120	0.0333	1.2000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	10.0400	10.0400	3.1000e-004	0.0000	10.0477

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	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072
Total	1.8000e-003	1.3900e-003	0.0153	9.0000e-005	0.0148	3.0000e-005	0.0148	3.9300e-003	3.0000e-005	3.9600e-003	0.0000	8.0042	8.0042	1.2000e-004	0.0000	8.0072

4.0 Operational Detail - Mobile

Campo Wind Facilities Decommissioning Unmitigated - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Campo Wind Facilities Decommissioning Unmitigated - 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

[illegible]

6.2 Area by SubCategory

Unmitigated

[illegible]

Campo Wind Facilities Decommissioning Unmitigated - 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	0.0000					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		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail**7.1 Mitigation Measures Water**

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities Decommissioning 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities Decommissioning 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Campo Wind Facilities Decommissioning Unmitigated - 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
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Boilers

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

Campo Wind Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

Project Characteristics - Unmitigated Campo Wind Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading -

Trips and VMT - Data provided by Developer.

Architectural Coating - No architectural coating.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	PhaseEndDate	6/22/2050	8/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,178.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	72.00

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

tblTripsAndVMT	WorkerTripNumber	0.00	168.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Decommissioning 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					
2050	6.3197	17.8999	62.7548	0.2066	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,588.8497	21,588.8497	0.7393	0.0000	21,607.3327
Maximum	6.3197	17.8999	62.7548	0.2066	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,588.8497	21,588.8497	0.7393	0.0000	21,607.3327

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					
2050	6.3197	17.8999	62.7548	0.2066	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,588.8497	21,588.8497	0.7393	0.0000	21,607.3326
Maximum	6.3197	17.8999	62.7548	0.2066	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,588.8497	21,588.8497	0.7393	0.0000	21,607.3326

[illegible]

Campo Wind Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Campo Wind Facilities Decommissioning 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	Site disassembly and removal	Building Construction	1/1/2050	7/1/2050	5	130	
2	Site cleanup and restoration	Architectural Coating	7/1/2050	8/1/2050	5	22	

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site disassembly and removal	Generator Sets	2	8.00	84	0.74
Site disassembly and removal	Off-Highway Trucks	6	8.00	402	0.38
Site disassembly and removal	Other Construction Equipment	4	8.00	172	0.42
Site disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
Site disassembly and removal	Rough Terrain Forklifts	4	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

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
Site cleanup and restoration	2	72.00	0.00	0.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT
Site disassembly and removal	17	168.00	0.00	1,178.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Site disassembly and removal - 2050****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	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552
Total	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

3.2 Site disassembly and removal - 2050**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	0.1147	2.3220	1.7202	0.0190	0.5380	7.0200e-003	0.5450	0.1474	6.7100e-003	0.1541		2,133.3829	2,133.3829	0.1941		2,138.2360
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	0.3654	0.2689	3.5928	0.0198	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,976.0265	1,976.0265	0.0297		1,976.7698
Total	0.4801	2.5909	5.3129	0.0388	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		4,109.4094	4,109.4094	0.2239		4,115.0059

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	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551
Total	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

3.2 Site disassembly and removal - 2050**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	0.1147	2.3220	1.7202	0.0190	0.5380	7.0200e-003	0.5450	0.1474	6.7100e-003	0.1541		2,133.3829	2,133.3829	0.1941		2,138.2360
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	0.3654	0.2689	3.5928	0.0198	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,976.0265	1,976.0265	0.0297		1,976.7698
Total	0.4801	2.5909	5.3129	0.0388	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		4,109.4094	4,109.4094	0.2239		4,115.0059

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871
Total	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Summer

3.3 Site cleanup and restoration - 2050**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	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871
Total	0.1566	0.1153	1.5398	8.4800e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		846.8685	846.8685	0.0127		847.1871

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

Campo Wind Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Facilities Decommissioning 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	0.0000	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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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 Facilities Decommissioning 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	0.0000	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	0.0214	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	0.0214	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

Campo Wind Facilities Decommissioning 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	0.0000					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	0.0214	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	0.0000					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	0.0214	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

Campo Wind Facilities Decommissioning 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
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

Campo Wind Facilities Decommissioning 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	2050
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

Project Characteristics - Unmitigated Campo Wind Facilities decommissioning emissions only.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Grading -

Trips and VMT - Data provided by Developer.

Architectural Coating - No architectural coating.

Vehicle Trips - Decommissioning emissions only.

Consumer Products - Decommissioning emissions only.

Area Coating - Decommissioning emissions only.

Landscape Equipment - Decommissioning emissions only.

Energy Use - Decommissioning emissions only.

Water And Wastewater - Decommissioning emissions only.

Solid Waste - Decommissioning emissions only.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	NumDays	100.00	130.00
tblConstructionPhase	PhaseEndDate	6/22/2050	8/1/2050
tblConstructionPhase	PhaseEndDate	6/8/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	6/16/2050	7/1/2050
tblConstructionPhase	PhaseStartDate	1/20/2050	1/1/2050

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripLength	20.00	68.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,178.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	VendorTripLength	6.60	0.00
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripLength	16.80	25.20
tblTripsAndVMT	WorkerTripNumber	0.00	72.00

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

tblTripsAndVMT	WorkerTripNumber	0.00	168.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Campo Wind Facilities Decommissioning 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					
2050	6.4320	17.9916	62.2048	0.2047	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3398
Maximum	6.4320	17.9916	62.2048	0.2047	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3398

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					
2050	6.4320	17.9916	62.2048	0.2047	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3397
Maximum	6.4320	17.9916	62.2048	0.2047	5.1351	0.3767	5.5118	1.3664	0.3757	1.7421	0.0000	21,400.9172	21,400.9172	0.7369	0.0000	21,419.3397

[illegible]

Campo Wind Facilities Decommissioning 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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0214	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	0.0000	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	0.0000	0.0000	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	0.0214	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

Campo Wind Facilities Decommissioning 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	Site disassembly and removal	Building Construction	1/1/2050	7/1/2050	5	130	
2	Site cleanup and restoration	Architectural Coating	7/1/2050	8/1/2050	5	22	

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**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site disassembly and removal	Generator Sets	2	8.00	84	0.74
Site disassembly and removal	Off-Highway Trucks	6	8.00	402	0.38
Site disassembly and removal	Other Construction Equipment	4	8.00	172	0.42
Site disassembly and removal	Cranes	1	8.00	231	0.29
Site cleanup and restoration	Graders	1	8.00	187	0.41
Site disassembly and removal	Rough Terrain Forklifts	4	8.00	100	0.40
Site cleanup and restoration	Skid Steer Loaders	1	8.00	65	0.37

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

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
Site cleanup and restoration	2	72.00	0.00	0.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT
Site disassembly and removal	17	168.00	0.00	1,178.00	25.20	0.00	68.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Site disassembly and removal - 2050****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	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552
Total	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375		15,626.4607	15,626.4607	0.4718		15,638.2552

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

3.2 Site disassembly and removal - 2050**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	0.1158	2.3693	1.7317	0.0189	0.5380	7.0300e-003	0.5450	0.1474	6.7200e-003	0.1541		2,121.6739	2,121.6739	0.1952		2,126.5531
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	0.4433	0.3000	3.1996	0.0185	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,852.6700	1,852.6700	0.0273		1,853.3528
Total	0.5590	2.6693	4.9313	0.0374	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		3,974.3440	3,974.3440	0.2225		3,979.9060

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	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551
Total	5.3405	14.1023	52.8795	0.1487		0.3375	0.3375		0.3375	0.3375	0.0000	15,626.4607	15,626.4607	0.4718		15,638.2551

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

3.2 Site disassembly and removal - 2050**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	0.1158	2.3693	1.7317	0.0189	0.5380	7.0300e-003	0.5450	0.1474	6.7200e-003	0.1541		2,121.6739	2,121.6739	0.1952		2,126.5531
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	0.4433	0.3000	3.1996	0.0185	3.2180	6.4700e-003	3.2244	0.8533	5.9500e-003	0.8592		1,852.6700	1,852.6700	0.0273		1,853.3528
Total	0.5590	2.6693	4.9313	0.0374	3.7560	0.0135	3.7694	1.0007	0.0127	1.0133		3,974.3440	3,974.3440	0.2225		3,979.9060

3.3 Site cleanup and restoration - 2050**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230		1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941
Total	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846
Total	0.3426	1.0915	3.0227	0.0106		0.0230	0.0230		0.0230	0.0230	0.0000	1,006.1110	1,006.1110	0.0309		1,006.8846

Campo Wind Facilities Decommissioning Unmitigated - San Diego County, Winter

3.3 Site cleanup and restoration - 2050**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	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941
Total	0.1900	0.1286	1.3713	7.9500e-003	1.3791	2.7700e-003	1.3819	0.3657	2.5500e-003	0.3682		794.0014	794.0014	0.0117		794.2941

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

Campo Wind Facilities Decommissioning 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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	0.615011	0.035959	0.175734	0.096057	0.010793	0.005300	0.020678	0.029891	0.002015	0.001593	0.005502	0.000799	0.000668

5.0 Energy Detail

Historical Energy Use: N

Campo Wind Facilities Decommissioning 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	0.0000	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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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 Facilities Decommissioning 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	0.0000	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	0.0214	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	0.0214	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

Campo Wind Facilities Decommissioning 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	0.0000					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	0.0214	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	0.0000					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	0.0214	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

Campo Wind Facilities Decommissioning 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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Campo Wind Operation - San Diego County, Annual

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	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 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.

Consumer Products - No consumer products

Area Coating - Assume no architectural coating reapplication

Landscape Equipment - minimal to none landscape

Energy Use - Electrical use only.

Construction Off-road Equipment Mitigation -

Fleet Mix - Assume employees drive light duty trucks for O&M activities

Stationary Sources - Emergency Generators and Fire Pumps -

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	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
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, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
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	0.0328	0.0917	0.0837	1.6000e-004		4.8300e-003	4.8300e-003		4.8300e-003	4.8300e-003	0.0000	15.2319	15.2319	2.1400e-003	0.0000	15.2853
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	0.0635	0.1293	0.4181	1.3000e-003	0.0900	5.4400e-003	0.0955	0.0239	5.4000e-003	0.0293	1.2258	135.6368	136.8626	0.0907	9.1000e-004	139.4027

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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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
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	0.0328	0.0917	0.0837	1.6000e-004		4.8300e-003	4.8300e-003		4.8300e-003	4.8300e-003	0.0000	15.2319	15.2319	2.1400e-003	0.0000	15.2853
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	0.0635	0.1293	0.4181	1.3000e-003	0.0900	5.4400e-003	0.0955	0.0239	5.4000e-003	0.0293	1.2258	135.6368	136.8626	0.0907	9.1000e-004	139.4027

	ROG	NOx	CO	SO2	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	Demolition	Demolition	8/1/2019	8/14/2019	5	10	
2	Site Preparation	Site Preparation	8/15/2019	8/15/2019	5	1	
3	Grading	Grading	8/16/2019	8/19/2019	5	2	
4	Building Construction	Building Construction	8/20/2019	1/6/2020	5	100	
5	Paving	Paving	1/7/2020	1/13/2020	5	5	
6	Architectural Coating	Architectural Coating	1/14/2020	1/20/2020	5	5	

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
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
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	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 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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3.2 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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3.2 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

3.3 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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3.3 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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3.3 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

3.4 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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3.4 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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3.4 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

3.5 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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3.5 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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3.5 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

3.5 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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3.5 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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3.5 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

3.6 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 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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3.7 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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3.7 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

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

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5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0195	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	0.0195	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

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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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	0.0195	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-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	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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	0.0195	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

7.0 Water Detail

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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

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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

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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	4	0.5	50	200	0.73	Diesel

Boilers

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

Equipment Type	Number
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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)	0.0328	0.0917	0.0837	1.6000e-004		4.8300e-003	4.8300e-003		4.8300e-003	4.8300e-003	0.0000	15.2319	15.2319	2.1400e-003	0.0000	15.2853
Total	0.0328	0.0917	0.0837	1.6000e-004		4.8300e-003	4.8300e-003		4.8300e-003	4.8300e-003	0.0000	15.2319	15.2319	2.1400e-003	0.0000	15.2853

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	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 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.

Consumer Products - No consumer products

Area Coating - Assume no architectural coating reapplication

Landscape Equipment - minimal to none landscape

Energy Use - Electrical use only.

Construction Off-road Equipment Mitigation -

Fleet Mix - Assume employees drive light duty trucks for O&M activities

Stationary Sources - Emergency Generators and Fire Pumps -

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	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
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	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827
Total	0.8286	2.0216	3.6818	9.7500e-003	0.5068	0.0999	0.6068	0.1344	0.0997	0.2340		993.3709	993.3709	0.0645	0.0000	994.9840

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	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827
Total	0.8286	2.0216	3.6818	9.7500e-003	0.5068	0.0999	0.6068	0.1344	0.0997	0.2340		993.3709	993.3709	0.0645	0.0000	994.9840

	ROG	NOx	CO	SO2	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	Demolition	Demolition	8/1/2019	8/14/2019	5	10	
2	Site Preparation	Site Preparation	8/15/2019	8/15/2019	5	1	
3	Grading	Grading	8/16/2019	8/19/2019	5	2	
4	Building Construction	Building Construction	8/20/2019	1/6/2020	5	100	
5	Paving	Paving	1/7/2020	1/13/2020	5	5	
6	Architectural Coating	Architectural Coating	1/14/2020	1/20/2020	5	5	

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
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
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	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	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 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		1,159.657 0	1,159.657 0	0.2211		1,165.184 7
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.657 0	1,159.657 0	0.2211		1,165.184 7

Campo Wind Operation - San Diego County, Summer

3.2 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

3.2 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

3.3 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

3.3 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

3.3 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

3.4 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

3.4 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

3.4 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

3.5 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

3.5 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

3.5 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

3.5 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

3.5 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	1,102.978 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	0.0000	1,102.978 1	1,102.978 1	0.3567		1,111.8962

Campo Wind Operation - San Diego County, Summer

3.5 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

3.6 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 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

3.7 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

3.7 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

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
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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	4	0.5	50	200	0.73	Diesel

Boilers

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

Equipment Type	Number
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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)	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827
Total	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827

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	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 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.

Consumer Products - No consumer products

Area Coating - Assume no architectural coating reapplication

Landscape Equipment - minimal to none landscape

Energy Use - Electrical use only.

Construction Off-road Equipment Mitigation -

Fleet Mix - Assume employees drive light duty trucks for O&M activities

Stationary Sources - Emergency Generators and Fire Pumps -

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	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
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	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827
Total	0.8249	2.0446	3.4923	9.3400e-003	0.5068	0.0999	0.6068	0.1344	0.0997	0.2340		953.3324	953.3324	0.0633	0.0000	954.9149

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	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827
Total	0.8249	2.0446	3.4923	9.3400e-003	0.5068	0.0999	0.6068	0.1344	0.0997	0.2340		953.3324	953.3324	0.0633	0.0000	954.9149

	ROG	NOx	CO	SO2	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	Demolition	Demolition	8/1/2019	8/14/2019	5	10	
2	Site Preparation	Site Preparation	8/15/2019	8/15/2019	5	1	
3	Grading	Grading	8/16/2019	8/19/2019	5	2	
4	Building Construction	Building Construction	8/20/2019	1/6/2020	5	100	
5	Paving	Paving	1/7/2020	1/13/2020	5	5	
6	Architectural Coating	Architectural Coating	1/14/2020	1/20/2020	5	5	

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
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
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	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	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 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		1,159.657 0	1,159.657 0	0.2211		1,165.184 7
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.657 0	1,159.657 0	0.2211		1,165.184 7

Campo Wind Operation - San Diego County, Winter

3.2 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

3.2 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

3.3 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

3.3 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

3.3 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

3.4 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

3.4 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

3.4 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

3.5 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

3.5 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

3.5 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

3.5 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		1,102.9781	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		1,102.9781	1,102.9781	0.3567		1,111.8962

Campo Wind Operation - San Diego County, Winter

3.5 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

3.5 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

3.6 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 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

3.7 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

3.7 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

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
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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	4	0.5	50	200	0.73	Diesel

Boilers

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

Equipment Type	Number
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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)	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827
Total	0.6563	1.8347	1.6738	3.1500e-003		0.0966	0.0966		0.0966	0.0966		335.8057	335.8057	0.0471		336.9827

11.0 Vegetation

**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

Decommissioning Worker Gasoline Demand

Phase Name	Phase	Trips	Vehicle CO ₂ (MT)	Kg/CO2/Gallon	Gallons
Campo Wind Facilities	Site disassembly and removal	21,840	110.36	8.78	12,569.61
Campo Wind Facilities	Site cleanup and restoration	1,584	8.00	8.78	911.64
Boulder Brush Facilities	System disassembly and removal	8,160	41.23	8.78	4,696.34
Boulder Brush Facilities	Site cleanup and restoration	1,104	5.58	8.78	635.39
Total					18,812.98

Decommissioning Vendor Diesel Demand

Phase Name	Phase	Trips	Vehicle CO ₂ (MT)	Kg/CO2/Gallon	Gallons
Campo Wind Facilities	Site disassembly and removal	0	0.00	10.21	0.00
Campo Wind Facilities	Site cleanup and restoration	0	0.00	10.21	0.00
Boulder Brush Facilities	System disassembly and removal	0	0.00	10.21	0.00
Boulder Brush Facilities	Site cleanup and restoration	0	0.00	10.21	0.00
Total					0.00

Decommissioning Haul Diesel Demand

Phase Name	Phase	Trips	Vehicle CO ₂ (MT)	Kg/CO2/Gallon	Gallons
Campo Wind Facilities	Site disassembly and removal	1,178	125.51	10.21	12,292.77
Campo Wind Facilities	Site cleanup and restoration	0	0.00	10.21	0.00
Boulder Brush Facilities	System disassembly and removal	30	3.74	10.21	366.07
Boulder Brush Facilities	Site cleanup and restoration	0	0.00	10.21	0.00
Total					12,658.84

Decommissioning Equipment Diesel Demand

Phase Name	Phase	Pieces of Equipment	Equipment CO ₂ (MT)	Kg/CO2/Gallon	Gallons
Campo Wind Facilities	Site disassembly and removal	17	921.45	10.21	90,249.32
Campo Wind Facilities	Site cleanup and restoration	2	10.04	10.21	983.35
Boulder Brush Facilities	System disassembly and removal	10	373.51	10.21	36,583.15
Boulder Brush Facilities	Site cleanup and restoration	2	10.50	10.21	1,028.05
Total					128,843.88

Decommissioning Equipment Usage

Phase Name	Phase	Hours of Equipment Use
Campo Wind Facilities	Site disassembly and removal	17,680
Campo Wind Facilities	Site cleanup and restoration	352
Boulder Brush Facilities	System disassembly and removal	6,800
Boulder Brush Facilities	Site cleanup and restoration	368
Total		25,200

Construction Worker Gasoline Demand

Phase Name	Phase	Trips	Vehicle CO ₂ (MT)	Kg/CO ₂ /Gallon	Gallons
Campo Wind Facilities	Clearing and grading	4,464	38.35	8.78	4,368.05
Campo Wind Facilities	Construction of access roads	15,600	131.97	8.78	15,030.85
Campo Wind Facilities	Gen-tie foundation construction and tower erection	2,304	19.79	8.78	2,254.48
Campo Wind Facilities	Wind turbine foundation construction	11,760	98.16	8.78	11,179.86
Campo Wind Facilities	Gen-tie stringing and pulling	1,728	14.40	8.78	1,639.65
Campo Wind Facilities	Construction of underground electrical collection system	26,400	219.64	8.78	25,016.00
Campo Wind Facilities	Wind turbine erection	15,840	131.78	8.78	15,009.60
Campo Wind Facilities	Operations and maintenance facility	18,600	154.75	8.78	17,624.91
Campo Wind Facilities	Construction of collector substation	5,280	43.93	8.78	5,003.20
Campo Wind Facilities	Meteorological towers	600	4.95	8.78	564.09
Boulder Brush Facilities	High voltage substation and switchyard	28,800	242.23	8.78	27,588.75
Boulder Brush Facilities	Clearing and grading	1,200	10.31	8.78	1,174.20
Boulder Brush Facilities	Unpaved construction of access roads	2,400	20.62	8.78	2,348.42
Boulder Brush Facilities	Gen-tie foundation construction and tower erection	1,536	13.20	8.78	1,502.98
Boulder Brush Facilities	Gen-tie stringing and pulling	20,016	166.86	8.78	19,004.53
Boulder Brush Facilities	Paving of switchyard access road	2,640	21.96	8.78	2,501.61
Total					151,811.18

Construction Vendor Diesel Demand

Phase Name	Phase	Trips	Vehicle CO ₂ (MT)	Kg/CO ₂ /Gallon	Gallons
Campo Wind Facilities	Clearing and grading	6,696	477.12	10.21	46,730.98
Campo Wind Facilities	Construction of access roads	0	0.00	10.21	0.00
Campo Wind Facilities	Gen-tie foundation construction and tower erection	240	17.10	10.21	1,674.95
Campo Wind Facilities	Wind turbine foundation construction	1,400	98.96	10.21	9,692.05
Campo Wind Facilities	Gen-tie stringing and pulling	240	16.96	10.21	1,660.63
Campo Wind Facilities	Construction of underground electrical collection system	1,320	93.22	10.21	9,130.00
Campo Wind Facilities	Wind turbine erection	0	0.00	10.21	0.00
Campo Wind Facilities	Operations and maintenance facility	620	43.78	10.21	4,288.33
Campo Wind Facilities	Construction of collector substation	330	23.30	10.21	2,282.50
Campo Wind Facilities	Meteorological towers	100	7.06	10.21	691.67
Boulder Brush Facilities	High voltage substation and switchyard	1,600	113.33	10.21	11,099.78
Boulder Brush Facilities	Clearing and grading	500	35.63	10.21	3,489.47
Boulder Brush Facilities	Unpaved construction of access roads	500	35.63	10.21	3,489.47
Boulder Brush Facilities	Gen-tie foundation construction and tower erection	160	11.40	10.21	1,116.63
Boulder Brush Facilities	Gen-tie stringing and pulling	2,780	196.43	10.21	19,238.92
Boulder Brush Facilities	Paving of switchyard access road	0	0.00	10.21	0.00
Total					114,585.38

Construction Haul Diesel Demand

Phase Name	Phase	Trips	Vehicle CO ₂ (MT)	Kg/CO ₂ /Gallon	Gallons
Campo Wind Facilities	Clearing and grading	734	78.61	10.21	7,699.79
Campo Wind Facilities	Construction of access roads	22	2.34	10.21	229.43
Campo Wind Facilities	Gen-tie foundation construction and tower erection	30	3.21	10.21	314.70
Campo Wind Facilities	Wind turbine foundation construction	3,046	322.69	10.21	31,605.40
Campo Wind Facilities	Gen-tie stringing and pulling	20	2.12	10.21	207.38
Campo Wind Facilities	Construction of underground electrical collection system	368	38.94	10.21	3,813.71
Campo Wind Facilities	Wind turbine erection	720	76.18	10.21	7,461.62
Campo Wind Facilities	Operations and maintenance facility	20	2.12	10.21	207.27
Campo Wind Facilities	Construction of collector substation	138	14.60	10.21	1,430.15
Campo Wind Facilities	Meteorological towers	4	0.42	10.21	41.45
Boulder Brush Facilities	High voltage substation and switchyard	415	44.09	10.21	4,318.40
Boulder Brush Facilities	Clearing and grading	0	0.00	10.21	0.00
Boulder Brush Facilities	Unpaved construction of access roads	32	3.43	10.21	335.69
Boulder Brush Facilities	Gen-tie foundation construction and tower erection	30	3.21	10.21	314.70
Boulder Brush Facilities	Gen-tie stringing and pulling	20	2.12	10.21	207.42
Boulder Brush Facilities	Paving of switchyard access road	0	0.00	10.21	0.00
Total					58,187.11

Construction Equipment Diesel Demand

Phase Name	Phase	Pieces of Equipment	Equipment CO ₂ (MT)	Kg/CO ₂ /Gallon	Gallons
Campo Wind Facilities	Clearing and grading	15	390.91	10.21	38,287.36
Campo Wind Facilities	Construction of access roads	10	516.46	10.21	50,584.18
Campo Wind Facilities	Gen-tie foundation construction and tower erection	13	23.31	10.21	2,282.72
Campo Wind Facilities	Wind turbine foundation construction	7	114.87	10.21	11,250.30
Campo Wind Facilities	Gen-tie stringing and pulling	2	5.55	10.21	543.67
Campo Wind Facilities	Construction of underground electrical collection system	9	181.43	10.21	17,770.02
Campo Wind Facilities	Wind turbine erection	33	728.86	10.21	71,387.34
Campo Wind Facilities	Operations and maintenance facility	14	111.27	10.21	10,898.08
Campo Wind Facilities	Construction of collector substation	10	196.48	10.21	19,243.51
Campo Wind Facilities	Meteorological towers	5	25.01	10.21	2,449.74
Boulder Brush Facilities	High voltage substation and switchyard	10	741.91	10.21	72,665.24
Boulder Brush Facilities	Clearing and grading	17	63.56	10.21	6,225.57
Boulder Brush Facilities	Unpaved construction of access roads	12	150.53	10.21	14,743.14
Boulder Brush Facilities	Gen-tie foundation construction and tower erection	6	15.54	10.21	1,521.81
Boulder Brush Facilities	Gen-tie stringing and pulling	2	64.30	10.21	6,297.51
Boulder Brush Facilities	Paving of switchyard access road	13	73.38	10.21	7,187.17
Total					333,337.37

Construction Equipment Usage

Phase Name	Phase	Hours of Equipment Use
Campo Wind Facilities	Clearing and grading	7,440
Campo Wind Facilities	Construction of access roads	10,400
Campo Wind Facilities	Gen-tie foundation construction and tower erection	984
Campo Wind Facilities	Wind turbine foundation construction	3,920
Campo Wind Facilities	Gen-tie stringing and pulling	336
Campo Wind Facilities	Construction of underground electrical collection system	7,700
Campo Wind Facilities	Wind turbine erection	26,950
Campo Wind Facilities	Operations and maintenance facility	4,650
Campo Wind Facilities	Construction of collector substation	8,360
Campo Wind Facilities	Meteorological towers	950
Boulder Brush Facilities	Clearing and grading	1,850
Boulder Brush Facilities	High voltage substation and switchyard	26,200
Boulder Brush Facilities	Unpaved construction of access roads	4,750
Boulder Brush Facilities	Gen-tie foundation construction and tower erection	656
Boulder Brush Facilities	Gen-tie stringing and pulling	3,892
Boulder Brush Facilities	Paving of switchyard access road	4,160
Total		113,198

Name	PhaseName	OffRoadEquipmentType	OffRoadEquipmentUr	UsageHours	Days	Total Hours	Pieces of Equipment	Name	PhaseName	PhaseType	PhaseStart/PhaseEnd	D NumDaysW	NumDays
Campo Wir Clearing and grading		Crushing/Proc. Equipment	1	8	62	496	15	Campo Wind Facilitie Clearing and gradit	Grading		2019/09/0/2019/11/2/	5	62
Campo Wir Clearing and grading		Graders	3	8	62	1488		Campo Wind Facilitie Construction of ac	Grading		2019/09/2/2020/03/2/	5	130
Campo Wir Clearing and grading		Rubber Tired Dozers	8	8	62	3968		Campo Wind Facilitie Gen-tie foundatio	r Building Co		2019/11/2/2019/12/2/	5	24
Campo Wir Clearing and grading		Scrapers	3	8	62	1488		Campo Wind Facilitie Wind turbine foun	Building Co		2019/12/2/2020/03/2/	5	70
Campo Wir Construction of access roads		Rubber Tired Loaders	7	8	130	7280	10	Campo Wind Facilitie Gen-tie stringing a	Building Co		2019/12/3/2020/02/0/	5	24
Campo Wir Construction of access roads		Scrapers	3	8	130	3120		Campo Wind Facilitie Construction of un	Site Prepar		2020/01/1/2020/06/2/	5	110
Campo Wir Gen-tie foundation construction and t	Air Compressors		1	7	24	168	13	Campo Wind Facilitie Wind turbine erect	Building Co		2020/02/0/2020/07/0/	5	110
Campo Wir Gen-tie foundation construction and t	Forklifts		1	8	24	192		Campo Wind Facilitie Operations and m	r Building Co		2020/02/0/2020/09/0/	5	155
Campo Wir Gen-tie foundation construction and t	Generator Sets		2	6	24	288		Campo Wind Facilitie Construction of co	Building Co		2020/03/0/2020/07/3/	5	110
Campo Wir Gen-tie foundation construction and t	Pumps		1	7	24	168		Campo Wind Facilitie Meteorological to	r Building Co		2020/06/0/2020/07/1/	5	25
Campo Wir Gen-tie foundation construction and t	Welders		1	7	24	168		Boulder Brush Facilit Clearing and gradit	Grading		2019/09/2/2019/10/2/	5	25
Campo Wir Wind turbine foundation construction	Air Compressors		3	8	70	1680	7	Boulder Brush Facilit High voltage subst	Building Co		2019/09/2/2020/07/0/	5	200
Campo Wir Wind turbine foundation construction	Generator Sets		3	8	70	1680		Boulder Brush Facilit Unpaved construct	Site Prepar		2019/10/1/2019/12/2/	5	50
Campo Wir Wind turbine foundation construction	Pumps		1	8	70	560		Boulder Brush Facilit Gen-tie foundatio	r Building Co		2019/11/0/2019/11/2/	5	16
Campo Wir Gen-tie stringing and pulling	Air Compressors		1	7	24	168	2	Boulder Brush Facilit Gen-tie stringing a	Building Co		2019/12/0/2020/12/3/	5	278
Campo Wir Gen-tie stringing and pulling	Welders		1	7	24	168		Boulder Brush Facilit Paving of switchya	Paving		2020/03/0/2020/04/2/	5	40
Campo Wir Construction of underground electrica	Rubber Tired Dozers		2	7	110	1540	9						
Campo Wir Construction of underground electrica	Tractors/Loaders/Backhoes		4	8	110	3520							
Campo Wir Construction of underground electrica	Trenchers		3	8	110	2640							
Campo Wir Wind turbine erection	Air Compressors		2	8	110	1760	33						
Campo Wir Wind turbine erection	Cranes		19	7	110	14630							
Campo Wir Wind turbine erection	Generator Sets		3	8	110	2640							
Campo Wir Wind turbine erection	Pumps		2	8	110	1760							
Campo Wir Wind turbine erection	Welders		7	8	110	6160							
Campo Wir Operations and maintenance facility	Cranes		1	7	155	1085	14						
Campo Wir Operations and maintenance facility	Generator Sets		1	8	155	1240							
Campo Wir Operations and maintenance facility	Tractors/Loaders/Backhoes		1	7	155	1085							
Campo Wir Operations and maintenance facility	Welders		1	8	155	1240							
Campo Wir Construction of collector substation	Air Compressors		1	8	110	880	10						
Campo Wir Construction of collector substation	Cranes		1	7	110	770							
Campo Wir Construction of collector substation	Generator Sets		2	8	110	1760							
Campo Wir Construction of collector substation	Pumps		1	8	110	880							
Campo Wir Construction of collector substation	Tractors/Loaders/Backhoes		3	7	110	2310							
Campo Wir Construction of collector substation	Welders		2	8	110	1760							
Campo Wir Meteorological towers	Cranes		1	7	25	175	5						
Campo Wir Meteorological towers	Generator Sets		2	8	25	400							
Campo Wir Meteorological towers	Tractors/Loaders/Backhoes		1	7	25	175							
Campo Wir Meteorological towers	Welders		1	8	25	200							
Boulder Bri High voltage substation and switchyar	Air Compressors		1	8	200	1600	17						
Boulder Bri High voltage substation and switchyar	Cranes		2	7	200	2800							
Boulder Bri High voltage substation and switchyar	Generator Sets		6	8	200	9600							
Boulder Bri High voltage substation and switchyar	Pumps		3	8	200	4800							
Boulder Bri High voltage substation and switchyar	Tractors/Loaders/Backhoes		3	7	200	4200							
Boulder Bri High voltage substation and switchyar	Welders		2	8	200	3200							
Boulder Bri Clearing and grading	Graders		2	7	25	350	10						
Boulder Bri Clearing and grading	Rubber Tired Dozers		4	8	25	800							
Boulder Bri Clearing and grading	Tractors/Loaders/Backhoes		4	7	25	700							
Boulder Bri Unpaved construction of access roads	Pavers		1	8	50	400	12						
Boulder Bri Unpaved construction of access roads	Paving Equipment		4	8	50	1600							
Boulder Bri Unpaved construction of access roads	Pumps		1	7	50	350							
Boulder Bri Unpaved construction of access roads	Rollers		4	8	50	1600							
Boulder Bri Unpaved construction of access roads	Scrapers		2	8	50	800							
Boulder Bri Gen-tie foundation construction and t	Air Compressors		1	7	16	112	6						
Boulder Bri Gen-tie foundation construction and t	Forklifts		1	8	16	128							
Boulder Bri Gen-tie foundation construction and t	Generator Sets		2	6	16	192							
Boulder Bri Gen-tie foundation construction and t	Pumps		1	7	16	112							
Boulder Bri Gen-tie foundation construction and t	Welders		1	7	16	112							
Boulder Bri Gen-tie stringing and pulling	Air Compressors		1	7	278	1946	2						
Boulder Bri Gen-tie stringing and pulling	Welders		1	7	278	1946							
Boulder Bri Paving of switchyard access road	Pavers		1	8	40	320	13						
Boulder Bri Paving of switchyard access road	Paving Equipment		4	8	40	1280							
Boulder Bri Paving of switchyard access road	Rollers		8	8	40	2560							
113198													

Name	PhaseName	WorkerTripNumber	VendorTripNumber	HaulingTripNumber	Days	Worker Trips	Vendor Trips
Campo Wir	Clearing and grading	72	108	734	62	4464	6696
Campo Wir	Construction of access roads	120	0	22	130	15600	0
Campo Wir	Gen-tie foundation construction and t	96	10	30	24	2304	240
Campo Wir	Wind turbine foundation construction	168	20	3046	70	11760	1400
Campo Wir	Gen-tie stringing and pulling	72	10	20	24	1728	240
Campo Wir	Construction of underground electrica	240	12	368	110	26400	1320
Campo Wir	Wind turbine erection	144	0	720	110	15840	0
Campo Wir	Operations and maintenance facility	120	4	20	155	18600	620
Campo Wir	Construction of collector substation	48	3	138	110	5280	330
Campo Wir	Meteorological towers	24	4	4	25	600	100
Boulder Bri	High voltage substation and switchyar	144	8	415	200	28800	1600
Boulder Bri	Clearing and grading	48	20	0	25	1200	500
Boulder Bri	Unpaved construction of access roads	48	10	32	50	2400	500
Boulder Bri	Gen-tie foundation construction and t	96	10	30	16	1536	160
Boulder Bri	Gen-tie stringing and pulling	72	10	20	278	20016	2780
Boulder Bri	Paving of switchyard access road	66	0	0	40	2640	0

Name	PhaseName	OffRoadEquipmentType	OffRoadEquipmentUsageHours	Days	Total Hours	Pieces of Equipment
Campo Wir Site disassembly and removal		Cranes	1	8	130	1040
Campo Wir Site disassembly and removal		Generator Sets	2	8	130	2080
Campo Wir Site disassembly and removal		Off-Highway Trucks	6	8	130	6240
Campo Wir Site disassembly and removal		Other Construction Equipment	4	8	130	4160
Campo Wir Site disassembly and removal		Rough Terrain Forklifts	4	8	130	4160
Campo Wir Site cleanup and restoration		Graders	1	8	22	176
Campo Wir Site cleanup and restoration		Skid Steer Loaders	1	8	22	176
Boulder Bri System disassembly and removal		Cranes	1	8	85	680
Boulder Bri System disassembly and removal		Generator Sets	1	8	85	680
Boulder Bri System disassembly and removal		Off-Highway Trucks	4	8	85	2720
Boulder Bri System disassembly and removal		Other Construction Equipment	2	8	85	1360
Boulder Bri System disassembly and removal		Rough Terrain Forklifts	2	8	85	1360
Boulder Bri Site cleanup and restoration		Graders	1	8	23	184
Boulder Bri Site cleanup and restoration		Skid Steer Loaders	1	8	23	184
					25200	

Name	PhaseName	WorkerTripNumber	VendorTripNumber	HaulingTripNumber	Days	Worker Trips	Vendor Trips
Campo Wir Site disassembly and removal		168	0	1178	130	21840	0
Campo Wir Site cleanup and restoration		72	0	0	22	1584	0
Boulder Bri System disassembly and removal		96	0	30	85	8160	0
Boulder Bri Site cleanup and restoration		48	0	0	23	1104	0

Name	PhaseName	PhaseType	PhaseStart/PhaseEnd	NumDaysW	NumDays
Campo Wind Facilitie Site disassembly and removal	Building Co	2050/01/0: 2050/07/0:	5	130	
Campo Wind Facilitie Site cleanup and restoration	Architecture	2050/07/0: 2050/08/0:	5	22	
Boulder Brush Facilit System disassembly and removal	Building Co	2050/01/0: 2050/05/0:	5	85	
Boulder Brush Facilit Site cleanup and restoration	Architecture	2050/05/0: 2050/06/0:	5	23	

Mobile Source Gasoline Demand

Project Phase	Vehicle MT CO ₂	Kg/CO ₂ / Gallon	Gallons
Worker Vehicles	102.85	8.78	11,713.93
Total			11,713.93

Stationary Source Diesel Demand

Project Phase	Source MT CO ₂	Kg/CO ₂ / Gallon	Gallons
Diesel Generators	15.23	10.21	1,491.86
Total			1,491.86

Campo Wind GHG Benefits

SDG&E GHG Emission Factor (MT CO ₂ e/MWh) ¹	0.302
CEC RPS Renewables for 2017 (%) ²	44.00
Fossil Fuel GHG Factor (MT CO ₂ e/MWh) ³	0.539
Project Power Production (MWh/yr)	756,000.00
Fossil Fuel MT CO ₂ e	407,700.00
Total GHG Benefit over 30 Years (MT CO ₂ e)	12,231,000.00

Notes: 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 2017 CEC Power Content Label

³ Assumes no use of renewable energy

Year	SDG&E GHG Emission Factor	Avoided GHG Emissions
	lb CO ₂ /MWh	MTCO ₂
2017	448.30	-
2018	432.29	-
2019	416.28	-
2020	400.27	137,259.85
2021	384.26	131,769.45
2022	368.25	126,279.06
2023	352.24	120,788.66
2024	336.23	115,298.27
2025	320.22	109,807.88
2026	304.21	104,317.48
2027	288.20	98,827.09
2028	272.19	93,336.69
2029	256.17	87,846.30
2030	240.16	82,355.91
2031	224.15	76,865.51
2032	208.14	71,375.12
2033	192.13	65,884.73
2034	176.12	60,394.33
2035	160.11	54,903.94
2036	144.10	49,413.54
2037	128.09	43,923.15
2038	112.08	38,432.76
2039	96.07	32,942.36
2040	80.05	27,451.97
2041	64.04	21,961.58
2042	48.03	16,471.18
2043	32.02	10,980.79
2044	16.01	5,490.39
2045	0.00	0.00

Total

1,784,377.99

San Diego Gas & Electric
Effect of 44% RPS
Based on 2009 Baseline Data

2009 Emission Factor ¹	720.49 lb CO2/MWh
2009 Renewables ²	10%
Without RPS	800.54 lb CO2/MWh
2017 Renewables	44%
With 2017 Renewables	<div style="border: 1px solid black; display: inline-block; padding: 2px;">448.30</div> lb CO2/MWh
Reduction from 10% RPS	37.8%
Reduction from 33% RPS	16.4%

Notes:

All renewable energy is assumed to be carbon neutral (i.e., no GHG emissions or from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2

2. SDG&E. Power Content Label - 2009 (Actual)

http://www.sdge.com/sites/default/files/FINAL092610_PowerLabel.pdf

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

Construction - Unmitigated with PDF-AQ-1 through PDF-AQ-5

Operational 2021 - Unmitigated

Decommissioning Emissions - Unmitigated

	VOC	NOx	CO	SO2	PM10	PM2.5	VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
Year	lb/day						tons/year						MT/year			
Campo Wind Facilities																

2050	6.43	17.99	62.75	0.21	5.51	1.74	0.39	1.10	3.81	0.01	0.28	0.09	1,175.36	0.04	0.00	1,176.39
Boulder Brush Facilities																
2050	4.07	9.53	36.29	0.12	3.02	0.24	0.16	0.37	1.41	0.00	0.10	0.03	434.56	0.01	0.00	434.88
TOTAL	10.50	27.52	99.04	0.33	8.53	1.98	0.54	1.47	5.22	0.02	0.37	0.12	1,609.92	0.05	0.00	1,611.27
<i>Threshold</i>	75	250	550	250	100	55	100	100	100	Amortized 30 year Decommissioning						53.71

Campo Wind Facilities and Boulder Brush Facilities Construction and Operational Criteria Air Pollutant and Greenhouse Gas Emissions

Construction - Mitigated

	VOC	NOx	CO	SO2	PM10	PM2.5	VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e	
Year	lb/day						tons/year						MT/year				
Campo Wind Facilities Construction																	
2019	8.42	79.80	154.70	0.51	36.58	15.11	0.24	2.50	4.62	0.02	1.16	0.48	1,453.59	0.25	0.00	1,459.79	
2020	13.30	84.56	266.58	0.72	26.64	8.96	0.61	3.81	13.02	0.03	1.27	0.44	3,017.04	0.44	0.00	3,028.13	
Campo Wind Facilities Concrete Batch Plant																	
2019	-	-	-	-	1.22	1.22	-	-	-	-	0.06	0.06	-	-	-	-	
Campo Wind Facilities Blasting																	
2019	-	40.80	160.80	4.80	1.84	0.11	-	1.05	4.12	0.12	0.18	0.01	--	--	--	20.62	
Campo Wind Facilities Rock Crushing																	
2019	-	-	-	-	11.50	1.53	-	-	-	-	0.36	0.05	-	-	-	-	
Boulder Brush Facilities Construction																	
2019	5.45	33.32	143.39	0.32	18.66	7.72	0.15	0.90	3.91	0.01	0.37	0.14	775.05	0.11	0.00	777.83	
2020	4.23	19.26	107.26	0.22	6.64	1.99	0.26	1.51	5.94	0.01	0.49	0.15	1,254.61	0.12	0.00	1,257.49	
Boulder Brush Facilities Concrete Batch Plant																	
2019	-	-	-	-	0.12	0.12	-	-	-	-	0.00	0.00	-	-	-	-	
Campo Wind Facilities Subtotal																	
2019	8.42	120.60	315.50	5.31	51.14	17.97	0.24	3.55	8.74	0.14	1.76	0.59	1,453.59	0.25	0.00	1,480.41	
2020	13.30	84.56	266.58	0.72	26.64	8.96	0.61	3.81	13.02	0.03	1.27	0.44	3,017.04	0.44	0.00	3,028.13	
Boulder Brush Facilities Subtotal																	
2019	5.45	33.32	143.39	0.32	18.78	7.84	0.15	0.90	3.91	0.01	0.38	0.14	775.05	0.11	0.00	777.83	
2020	4.23	19.26	107.26	0.22	6.64	1.99	0.26	1.51	5.94	0.01	0.49	0.15	1,254.61	0.12	0.00	1,257.49	
TOTAL																	
2019	13.87	153.92	458.89	5.63	69.92	25.81	0.39	4.45	12.65	0.14	2.13	0.73	2,228.64	0.36	0.00	2,258.24	
2020	17.53	103.82	373.84	0.94	33.28	10.95	0.87	5.33	18.96	0.05	1.76	0.58	4,271.65	0.56	0.00	4,285.62	
MAX	17.53	153.92	458.89	5.63	69.92	25.81	0.87	5.33	18.96	0.14	2.13	0.73	6,500.29	0.92	0.00	6,543.86	
Threshold	75	250	550	250	100	55	100	100	100	Amortized 30 year construction						218.13	
TOTAL																	

TOTAL

Decommissioning Emissions - Mitigated

	VOC	NOx	CO	SO2	PM10	PM2.5	VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
Year	lb/day						tons/year						MT/year			
Campo Wind Facilities																
2050	5.30	12.34	66.31	0.21	5.47	1.70	0.32	0.71	3.96	0.01	0.27	0.09	1,175.36	0.04	0.00	1,176.39
Boulder Brush Facilities																
2050	3.31	6.86	39.44	0.12	2.99	0.95	0.13	0.24	1.49	0.00	0.10	0.03	434.56	0.01	0.00	434.88
TOTAL	8.61	19.20	105.75	0.33	8.46	2.64	0.45	0.96	5.45	0.02	0.37	0.12	1,609.92	0.05	0.00	1,611.27
Threshold	75	250	550	250	100	55	100	100	100							

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).

APPENDIX B

Health Risk Assessment

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

Boulder Brush Facilities Construction Mitigated HRA
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

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)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

Project Characteristics - Mitigated Boulder Brush Facilities construction emissions only. HRA emissions.

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer. Onsite vehicle travel only.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF and mitigation measure.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00
tblConstructionPhase	NumDays	100.00	16.00

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	200.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
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	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripNumber	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00
tblTripsAndVMT	WorkerTripNumber	30.00	48.00

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4510	4.2872	3.2512	5.8600e-003	0.4161	0.2217	0.6378	0.1795	0.2116	0.3911	0.0000	516.1905	516.1905	0.1009	0.0000	518.7137
2020	0.5597	4.6927	4.4866	7.9900e-003	0.0164	0.2508	0.2672	4.7000e-003	0.2442	0.2489	0.0000	689.8184	689.8184	0.0945	0.0000	692.1797
Maximum	0.5597	4.6927	4.4866	7.9900e-003	0.4161	0.2508	0.6378	0.1795	0.2442	0.3911	0.0000	689.8184	689.8184	0.1009	0.0000	692.1797

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	0.0773	0.4850	3.3778	5.8600e-003	0.1677	9.1900e-003	0.1769	0.0715	9.1500e-003	0.0807	0.0000	516.1899	516.1899	0.1009	0.0000	518.7132
2020	0.1113	0.8102	4.7590	7.9900e-003	0.0164	0.0116	0.0280	4.7000e-003	0.0115	0.0162	0.0000	689.8177	689.8177	0.0945	0.0000	692.1789
Maximum	0.1113	0.8102	4.7590	7.9900e-003	0.1677	0.0116	0.1769	0.0715	0.0115	0.0807	0.0000	689.8177	689.8177	0.1009	0.0000	692.1789

	ROG	NOx	CO	SO2	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	81.35	85.58	-5.16	0.00	57.43	95.60	77.36	58.61	95.46	84.86	0.00	0.00	0.00	0.00	0.00	0.00

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	7-1-2019	9-30-2019	0.3212	0.0291
4	10-1-2019	12-31-2019	4.4522	0.5360
5	1-1-2020	3-31-2020	2.4418	0.3770
6	4-1-2020	6-30-2020	2.3760	0.3712
7	7-1-2020	9-30-2020	0.2575	0.0918
		Highest	4.4522	0.5360

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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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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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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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

	ROG	NOx	CO	SO2	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	Clearing and grading	Grading	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

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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
High voltage substation and switchyard	17	144.00	8.00	415.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	0.10	8.00	8.00	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

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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					0.4072	0.0000	0.4072	0.1770	0.0000	0.1770	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	0.4072	0.0409	0.4480	0.1770	0.0376	0.2146	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	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	6.6000e-004	2.5000e-004	3.5400e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1675	0.1675	2.0000e-005	0.0000	0.1679
Total	1.9000e-003	0.0331	0.0124	7.0000e-005	1.8700e-003	2.4000e-004	2.1000e-003	5.3000e-004	2.3000e-004	7.7000e-004	0.0000	7.3205	7.3205	5.8000e-004	0.0000	7.3349

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

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					0.1588	0.0000	0.1588	0.0690	0.0000	0.0690	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	0.1588	1.1600e-003	0.1600	0.0690	1.1600e-003	0.0702	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	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	6.6000e-004	2.5000e-004	3.5400e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1675	0.1675	2.0000e-005	0.0000	0.1679
Total	1.9000e-003	0.0331	0.0124	7.0000e-005	1.8700e-003	2.4000e-004	2.1000e-003	5.3000e-004	2.3000e-004	7.7000e-004	0.0000	7.3205	7.3205	5.8000e-004	0.0000	7.3349

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3.3 High voltage 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	3.3000e-004	0.0126	2.5100e-003	3.0000e-005	1.1900e-003	4.0000e-005	1.2200e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	2.5778	2.5778	2.8000e-004	0.0000	2.5849
Vendor	1.3300e-003	0.0352	9.4600e-003	8.0000e-005	1.9500e-003	2.5000e-004	2.2000e-003	5.6000e-004	2.4000e-004	8.1000e-004	0.0000	7.6681	7.6681	6.0000e-004	0.0000	7.6830
Worker	5.3200e-003	1.9700e-003	0.0284	2.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Total	6.9800e-003	0.0498	0.0404	1.3000e-004	3.5500e-003	3.2000e-004	3.8600e-003	9.8000e-004	3.0000e-004	1.2900e-003	0.0000	11.5923	11.5923	1.0300e-003	0.0000	11.6180

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

3.3 High voltage 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	0.0316	0.1914	1.7635	2.9000e-003		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	249.3385	249.3385	0.0314	0.0000	250.1245
Total	0.0316	0.1914	1.7635	2.9000e-003		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-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	3.3000e-004	0.0126	2.5100e-003	3.0000e-005	1.1900e-003	4.0000e-005	1.2200e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	2.5778	2.5778	2.8000e-004	0.0000	2.5849
Vendor	1.3300e-003	0.0352	9.4600e-003	8.0000e-005	1.9500e-003	2.5000e-004	2.2000e-003	5.6000e-004	2.4000e-004	8.1000e-004	0.0000	7.6681	7.6681	6.0000e-004	0.0000	7.6830
Worker	5.3200e-003	1.9700e-003	0.0284	2.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Total	6.9800e-003	0.0498	0.0404	1.3000e-004	3.5500e-003	3.2000e-004	3.8600e-003	9.8000e-004	3.0000e-004	1.2900e-003	0.0000	11.5923	11.5923	1.0300e-003	0.0000	11.6180

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3.3 High voltage 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	5.9000e-004	0.0236	4.7900e-003	5.0000e-005	1.3000e-003	5.0000e-005	1.3600e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	5.0747	5.0747	5.4000e-004	0.0000	5.0882
Vendor	2.1500e-003	0.0633	0.0169	1.6000e-004	3.8700e-003	3.2000e-004	4.1900e-003	1.1200e-003	3.1000e-004	1.4200e-003	0.0000	15.1148	15.1148	1.1300e-003	0.0000	15.1430
Worker	9.7500e-003	3.4700e-003	0.0512	3.0000e-005	8.0000e-004	6.0000e-005	8.7000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.5947	2.5947	2.6000e-004	0.0000	2.6013
Total	0.0125	0.0904	0.0728	2.4000e-004	5.9700e-003	4.3000e-004	6.4200e-003	1.7000e-003	4.2000e-004	2.1100e-003	0.0000	22.7842	22.7842	1.9300e-003	0.0000	22.8324

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3.3 High voltage 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	0.0627	0.3800	3.5006	5.7500e-003		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	492.5716	492.5716	0.0594	0.0000	494.0561
Total	0.0627	0.3800	3.5006	5.7500e-003		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	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	5.9000e-004	0.0236	4.7900e-003	5.0000e-005	1.3000e-003	5.0000e-005	1.3600e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	5.0747	5.0747	5.4000e-004	0.0000	5.0882
Vendor	2.1500e-003	0.0633	0.0169	1.6000e-004	3.8700e-003	3.2000e-004	4.1900e-003	1.1200e-003	3.1000e-004	1.4200e-003	0.0000	15.1148	15.1148	1.1300e-003	0.0000	15.1430
Worker	9.7500e-003	3.4700e-003	0.0512	3.0000e-005	8.0000e-004	6.0000e-005	8.7000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.5947	2.5947	2.6000e-004	0.0000	2.6013
Total	0.0125	0.0904	0.0728	2.4000e-004	5.9700e-003	4.3000e-004	6.4200e-003	1.7000e-003	4.2000e-004	2.1100e-003	0.0000	22.7842	22.7842	1.9300e-003	0.0000	22.8324

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3.4 Unpaved construction of 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	8.0000e-005	2.9100e-003	5.8000e-004	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5934	0.5934	6.0000e-005	0.0000	0.5950
Vendor	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	1.3200e-003	4.9000e-004	7.0700e-003	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3349	0.3349	4.0000e-005	0.0000	0.3359
Total	2.6400e-003	0.0363	0.0165	8.0000e-005	2.0300e-003	2.6000e-004	2.2800e-003	5.8000e-004	2.5000e-004	8.3000e-004	0.0000	8.0813	8.0813	6.6000e-004	0.0000	8.0978

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3.4 Unpaved construction of 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	8.0000e-005	2.9100e-003	5.8000e-004	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5934	0.5934	6.0000e-005	0.0000	0.5950
Vendor	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	1.3200e-003	4.9000e-004	7.0700e-003	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3349	0.3349	4.0000e-005	0.0000	0.3359
Total	2.6400e-003	0.0363	0.0165	8.0000e-005	2.0300e-003	2.6000e-004	2.2800e-003	5.8000e-004	2.5000e-004	8.3000e-004	0.0000	8.0813	8.0813	6.6000e-004	0.0000	8.0978

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3.5 Gen-tie 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	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	4.0000e-004	0.0105	2.8200e-003	2.0000e-005	5.8000e-004	8.0000e-005	6.6000e-004	1.7000e-004	7.0000e-005	2.4000e-004	0.0000	2.2890	2.2890	1.8000e-004	0.0000	2.2934
Worker	8.5000e-004	3.1000e-004	4.5300e-003	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2144	0.2144	2.0000e-005	0.0000	0.2150
Total	1.3200e-003	0.0136	7.8900e-003	3.0000e-005	7.4000e-004	1.0000e-004	8.4000e-004	2.2000e-004	8.0000e-005	3.0000e-004	0.0000	3.0596	3.0596	2.6000e-004	0.0000	3.0662

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3.5 Gen-tie 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	1.9800e-003	0.0143	0.1139	1.8000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	1.9800e-003	0.0143	0.1139	1.8000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	4.0000e-004	0.0105	2.8200e-003	2.0000e-005	5.8000e-004	8.0000e-005	6.6000e-004	1.7000e-004	7.0000e-005	2.4000e-004	0.0000	2.2890	2.2890	1.8000e-004	0.0000	2.2934
Worker	8.5000e-004	3.1000e-004	4.5300e-003	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2144	0.2144	2.0000e-005	0.0000	0.2150
Total	1.3200e-003	0.0136	7.8900e-003	3.0000e-005	7.4000e-004	1.0000e-004	8.4000e-004	2.2000e-004	8.0000e-005	3.0000e-004	0.0000	3.0596	3.0596	2.6000e-004	0.0000	3.0662

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3.6 Gen-tie 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	0.0000	1.1000e-004	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0227	0.0227	0.0000	0.0000	0.0227
Vendor	4.2000e-004	0.0112	3.0000e-003	3.0000e-005	6.2000e-004	8.0000e-005	7.0000e-004	1.8000e-004	8.0000e-005	2.6000e-004	0.0000	2.4320	2.4320	1.9000e-004	0.0000	2.4368
Worker	6.8000e-004	2.5000e-004	3.6100e-003	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1708	0.1708	2.0000e-005	0.0000	0.1713
Total	1.1000e-003	0.0115	6.6300e-003	3.0000e-005	7.2000e-004	8.0000e-005	8.1000e-004	2.0000e-004	8.0000e-005	2.9000e-004	0.0000	2.6255	2.6255	2.1000e-004	0.0000	2.6308

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

3.6 Gen-tie 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	6.2000e-004	8.7400e-003	0.0293	5.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.9319	3.9319	4.5000e-004	0.0000	3.9431
Total	6.2000e-004	8.7400e-003	0.0293	5.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	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	0.0000	1.1000e-004	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0227	0.0227	0.0000	0.0000	0.0227
Vendor	4.2000e-004	0.0112	3.0000e-003	3.0000e-005	6.2000e-004	8.0000e-005	7.0000e-004	1.8000e-004	8.0000e-005	2.6000e-004	0.0000	2.4320	2.4320	1.9000e-004	0.0000	2.4368
Worker	6.8000e-004	2.5000e-004	3.6100e-003	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1708	0.1708	2.0000e-005	0.0000	0.1713
Total	1.1000e-003	0.0115	6.6300e-003	3.0000e-005	7.2000e-004	8.0000e-005	8.1000e-004	2.0000e-004	8.0000e-005	2.9000e-004	0.0000	2.6255	2.6255	2.1000e-004	0.0000	2.6308

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

3.6 Gen-tie 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	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204
Total	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204

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	4.0000e-005	1.6100e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3453	0.3453	4.0000e-005	0.0000	0.3462
Vendor	5.2600e-003	0.1554	0.0413	3.8000e-004	9.4900e-003	7.9000e-004	0.0103	2.7400e-003	7.6000e-004	3.5000e-003	0.0000	37.0767	37.0767	2.7600e-003	0.0000	37.1458
Worker	9.5600e-003	3.4100e-003	0.0502	3.0000e-005	7.9000e-004	6.0000e-005	8.5000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5460	2.5460	2.6000e-004	0.0000	2.5524
Total	0.0149	0.1604	0.0919	4.1000e-004	0.0104	8.5000e-004	0.0112	2.9800e-003	8.2000e-004	3.8000e-003	0.0000	39.9679	39.9679	3.0600e-003	0.0000	40.0444

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

3.6 Gen-tie 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	9.5300e-003	0.1343	0.4499	7.4000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203
Total	9.5300e-003	0.1343	0.4499	7.4000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203

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	4.0000e-005	1.6100e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3453	0.3453	4.0000e-005	0.0000	0.3462
Vendor	5.2600e-003	0.1554	0.0413	3.8000e-004	9.4900e-003	7.9000e-004	0.0103	2.7400e-003	7.6000e-004	3.5000e-003	0.0000	37.0767	37.0767	2.7600e-003	0.0000	37.1458
Worker	9.5600e-003	3.4100e-003	0.0502	3.0000e-005	7.9000e-004	6.0000e-005	8.5000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5460	2.5460	2.6000e-004	0.0000	2.5524
Total	0.0149	0.1604	0.0919	4.1000e-004	0.0104	8.5000e-004	0.0112	2.9800e-003	8.2000e-004	3.8000e-003	0.0000	39.9679	39.9679	3.0600e-003	0.0000	40.0444

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3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586
Total	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586
Total	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

[illegible]

Boulder Brush Facilities Construction Mitigated HRA - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Boulder Brush Facilities Construction Mitigated HRA - 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Boulder Brush Facilities Construction Mitigated HRA - 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	3.9100e-003	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	3.9100e-003	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	0.0000					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	3.9100e-003	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	0.0000					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	3.9100e-003	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 Facilities Construction Mitigated HRA - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities Construction Mitigated HRA - 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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Boulder Brush Facilities Construction Mitigated HRA - 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	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Boulder Brush Facilities Construction Mitigated HRA - 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
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Boilers

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

Equipment Type	Number
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11.0 Vegetation

Boulder Brush Facilities Construction Unmitigated HRA - San Diego County, Annual

Boulder Brush Facilities Construction Unmitigated HRA

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

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)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Boulder Brush Facilities Construction Unmitigated HRA - San Diego County, Annual

Project Characteristics - Unmitigated Boulder Brush Facilities construction emissions only. HRA

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer. Onsite travel only for HRA

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - dust control measures PDF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	25.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	1.00	50.00

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tblConstructionPhase	NumDays	100.00	16.00
tblConstructionPhase	NumDays	100.00	278.00
tblConstructionPhase	NumDays	5.00	40.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	21.88	200.00
tblGrading	AcresOfGrading	100.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	UsageHours	4.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00

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tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	415.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
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	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripNumber	0.00	144.00
tblTripsAndVMT	WorkerTripNumber	25.00	48.00

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tblTripsAndVMT	WorkerTripNumber	30.00	48.00
tblTripsAndVMT	WorkerTripNumber	0.00	96.00
tblTripsAndVMT	WorkerTripNumber	0.00	72.00
tblTripsAndVMT	WorkerTripNumber	33.00	66.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

2.0 Emissions Summary

Boulder Brush Facilities Construction Unmitigated HRA - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4510	4.2872	3.2512	5.8600e-003	0.4161	0.2217	0.6378	0.1795	0.2116	0.3911	0.0000	516.1905	516.1905	0.1009	0.0000	518.7137
2020	0.5597	4.6927	4.4866	7.9900e-003	0.0164	0.2508	0.2672	4.7000e-003	0.2442	0.2489	0.0000	689.8184	689.8184	0.0945	0.0000	692.1797
Maximum	0.5597	4.6927	4.4866	7.9900e-003	0.4161	0.2508	0.6378	0.1795	0.2442	0.3911	0.0000	689.8184	689.8184	0.1009	0.0000	692.1797

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	0.4510	4.2872	3.2512	5.8600e-003	0.1677	0.2217	0.3894	0.0715	0.2116	0.2832	0.0000	516.1899	516.1899	0.1009	0.0000	518.7132
2020	0.5597	4.6927	4.4866	7.9900e-003	0.0164	0.2508	0.2672	4.7000e-003	0.2442	0.2489	0.0000	689.8177	689.8177	0.0945	0.0000	692.1789
Maximum	0.5597	4.6927	4.4866	7.9900e-003	0.1677	0.2508	0.3894	0.0715	0.2442	0.2832	0.0000	689.8177	689.8177	0.1009	0.0000	692.1789

	ROG	NOx	CO	SO2	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	57.43	0.00	27.44	58.61	0.00	16.87	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)
3	7-1-2019	9-30-2019	0.3212	0.3212
4	10-1-2019	12-31-2019	4.4522	4.4522
5	1-1-2020	3-31-2020	2.4418	2.4418
6	4-1-2020	6-30-2020	2.3760	2.3760
7	7-1-2020	9-30-2020	0.2575	0.2575
		Highest	4.4522	4.4522

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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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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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	3.9100e-003	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9100e-003	0.0000	1.0000e-005	0.0000	0.0000	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

	ROG	NOx	CO	SO2	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	Clearing and grading	Grading	9/21/2019	10/26/2019	5	25	
2	High voltage substation and switchyard	Building Construction	9/29/2019	7/4/2020	5	200	
3	Unpaved construction of access roads	Site Preparation	10/13/2019	12/21/2019	5	50	
4	Gen-tie foundation construction and tower erection	Building Construction	11/3/2019	11/25/2019	5	16	
5	Gen-tie stringing and pulling	Building Construction	12/8/2019	12/30/2020	5	278	
6	Paving of switchyard access road	Paving	3/1/2020	4/25/2020	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 Facilities Construction Unmitigated HRA - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
High voltage substation and switchyard	Air Compressors	1	8.00	78	0.48
High voltage substation and switchyard	Cranes	2	7.00	231	0.29
High voltage substation and switchyard	Generator Sets	6	8.00	84	0.74
High voltage substation and switchyard	Pumps	3	8.00	84	0.74
High voltage substation and switchyard	Tractors/Loaders/Backhoes	3	7.00	97	0.37
High voltage substation and switchyard	Welders	2	8.00	46	0.45
Clearing and grading	Graders	2	7.00	187	0.41
Clearing and grading	Rubber Tired Dozers	4	8.00	247	0.40
Clearing and grading	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Unpaved construction of access roads	Pavers	1	8.00	130	0.42
Unpaved construction of access roads	Paving Equipment	4	8.00	132	0.36
Unpaved construction of access roads	Pumps	1	7.00	84	0.74
Unpaved construction of access roads	Rollers	4	8.00	80	0.38
Unpaved construction of access roads	Scrapers	2	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	46	0.45
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Paving of switchyard access road	Pavers	1	8.00	130	0.42
Paving of switchyard access road	Paving Equipment	4	8.00	132	0.36
Paving of switchyard access road	Rollers	8	8.00	80	0.38

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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
High voltage substation and switchyard	17	144.00	8.00	415.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Clearing and grading	10	48.00	20.00	0.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Unpaved construction of access roads	12	48.00	10.00	32.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Paving of switchyard access road	13	66.00	0.00	0.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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					0.4072	0.0000	0.4072	0.1770	0.0000	0.1770	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	0.4072	0.0409	0.4480	0.1770	0.0376	0.2146	0.0000	63.6045	63.6045	0.0201	0.0000	64.1076

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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	0.0000	0.0000	0.0000	0.0000	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	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	6.6000e-004	2.5000e-004	3.5400e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1675	0.1675	2.0000e-005	0.0000	0.1679
Total	1.9000e-003	0.0331	0.0124	7.0000e-005	1.8700e-003	2.4000e-004	2.1000e-003	5.3000e-004	2.3000e-004	7.7000e-004	0.0000	7.3205	7.3205	5.8000e-004	0.0000	7.3349

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					0.1588	0.0000	0.1588	0.0690	0.0000	0.0690	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	0.1588	0.0409	0.1997	0.0690	0.0376	0.1066	0.0000	63.6044	63.6044	0.0201	0.0000	64.1075

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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	0.0000	0.0000	0.0000	0.0000	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	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	6.6000e-004	2.5000e-004	3.5400e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1675	0.1675	2.0000e-005	0.0000	0.1679
Total	1.9000e-003	0.0331	0.0124	7.0000e-005	1.8700e-003	2.4000e-004	2.1000e-003	5.3000e-004	2.3000e-004	7.7000e-004	0.0000	7.3205	7.3205	5.8000e-004	0.0000	7.3349

3.3 High voltage 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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3.3 High voltage 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	3.3000e-004	0.0126	2.5100e-003	3.0000e-005	1.1900e-003	4.0000e-005	1.2200e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	2.5778	2.5778	2.8000e-004	0.0000	2.5849
Vendor	1.3300e-003	0.0352	9.4600e-003	8.0000e-005	1.9500e-003	2.5000e-004	2.2000e-003	5.6000e-004	2.4000e-004	8.1000e-004	0.0000	7.6681	7.6681	6.0000e-004	0.0000	7.6830
Worker	5.3200e-003	1.9700e-003	0.0284	2.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Total	6.9800e-003	0.0498	0.0404	1.3000e-004	3.5500e-003	3.2000e-004	3.8600e-003	9.8000e-004	3.0000e-004	1.2900e-003	0.0000	11.5923	11.5923	1.0300e-003	0.0000	11.6180

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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3.3 High voltage 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	3.3000e-004	0.0126	2.5100e-003	3.0000e-005	1.1900e-003	4.0000e-005	1.2200e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	2.5778	2.5778	2.8000e-004	0.0000	2.5849
Vendor	1.3300e-003	0.0352	9.4600e-003	8.0000e-005	1.9500e-003	2.5000e-004	2.2000e-003	5.6000e-004	2.4000e-004	8.1000e-004	0.0000	7.6681	7.6681	6.0000e-004	0.0000	7.6830
Worker	5.3200e-003	1.9700e-003	0.0284	2.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Total	6.9800e-003	0.0498	0.0404	1.3000e-004	3.5500e-003	3.2000e-004	3.8600e-003	9.8000e-004	3.0000e-004	1.2900e-003	0.0000	11.5923	11.5923	1.0300e-003	0.0000	11.6180

3.3 High voltage 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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3.3 High voltage 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	5.9000e-004	0.0236	4.7900e-003	5.0000e-005	1.3000e-003	5.0000e-005	1.3600e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	5.0747	5.0747	5.4000e-004	0.0000	5.0882
Vendor	2.1500e-003	0.0633	0.0169	1.6000e-004	3.8700e-003	3.2000e-004	4.1900e-003	1.1200e-003	3.1000e-004	1.4200e-003	0.0000	15.1148	15.1148	1.1300e-003	0.0000	15.1430
Worker	9.7500e-003	3.4700e-003	0.0512	3.0000e-005	8.0000e-004	6.0000e-005	8.7000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.5947	2.5947	2.6000e-004	0.0000	2.6013
Total	0.0125	0.0904	0.0728	2.4000e-004	5.9700e-003	4.3000e-004	6.4200e-003	1.7000e-003	4.2000e-004	2.1100e-003	0.0000	22.7842	22.7842	1.9300e-003	0.0000	22.8324

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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3.3 High voltage 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	5.9000e-004	0.0236	4.7900e-003	5.0000e-005	1.3000e-003	5.0000e-005	1.3600e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	5.0747	5.0747	5.4000e-004	0.0000	5.0882
Vendor	2.1500e-003	0.0633	0.0169	1.6000e-004	3.8700e-003	3.2000e-004	4.1900e-003	1.1200e-003	3.1000e-004	1.4200e-003	0.0000	15.1148	15.1148	1.1300e-003	0.0000	15.1430
Worker	9.7500e-003	3.4700e-003	0.0512	3.0000e-005	8.0000e-004	6.0000e-005	8.7000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	2.5947	2.5947	2.6000e-004	0.0000	2.6013
Total	0.0125	0.0904	0.0728	2.4000e-004	5.9700e-003	4.3000e-004	6.4200e-003	1.7000e-003	4.2000e-004	2.1100e-003	0.0000	22.7842	22.7842	1.9300e-003	0.0000	22.8324

3.4 Unpaved construction of 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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3.4 Unpaved construction of 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	8.0000e-005	2.9100e-003	5.8000e-004	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5934	0.5934	6.0000e-005	0.0000	0.5950
Vendor	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	1.3200e-003	4.9000e-004	7.0700e-003	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3349	0.3349	4.0000e-005	0.0000	0.3359
Total	2.6400e-003	0.0363	0.0165	8.0000e-005	2.0300e-003	2.6000e-004	2.2800e-003	5.8000e-004	2.5000e-004	8.3000e-004	0.0000	8.0813	8.0813	6.6000e-004	0.0000	8.0978

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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3.4 Unpaved construction of 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	8.0000e-005	2.9100e-003	5.8000e-004	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5934	0.5934	6.0000e-005	0.0000	0.5950
Vendor	1.2400e-003	0.0329	8.8200e-003	7.0000e-005	1.8200e-003	2.4000e-004	2.0500e-003	5.2000e-004	2.3000e-004	7.5000e-004	0.0000	7.1530	7.1530	5.6000e-004	0.0000	7.1670
Worker	1.3200e-003	4.9000e-004	7.0700e-003	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3349	0.3349	4.0000e-005	0.0000	0.3359
Total	2.6400e-003	0.0363	0.0165	8.0000e-005	2.0300e-003	2.6000e-004	2.2800e-003	5.8000e-004	2.5000e-004	8.3000e-004	0.0000	8.0813	8.0813	6.6000e-004	0.0000	8.0978

3.5 Gen-tie 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	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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3.5 Gen-tie 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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	4.0000e-004	0.0105	2.8200e-003	2.0000e-005	5.8000e-004	8.0000e-005	6.6000e-004	1.7000e-004	7.0000e-005	2.4000e-004	0.0000	2.2890	2.2890	1.8000e-004	0.0000	2.2934
Worker	8.5000e-004	3.1000e-004	4.5300e-003	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2144	0.2144	2.0000e-005	0.0000	0.2150
Total	1.3200e-003	0.0136	7.8900e-003	3.0000e-005	7.4000e-004	1.0000e-004	8.4000e-004	2.2000e-004	8.0000e-005	3.0000e-004	0.0000	3.0596	3.0596	2.6000e-004	0.0000	3.0662

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	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743
Total	0.0151	0.1121	0.1105	1.8000e-004		7.1600e-003	7.1600e-003		7.0900e-003	7.0900e-003	0.0000	15.5377	15.5377	1.4600e-003	0.0000	15.5743

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3.5 Gen-tie 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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	4.0000e-004	0.0105	2.8200e-003	2.0000e-005	5.8000e-004	8.0000e-005	6.6000e-004	1.7000e-004	7.0000e-005	2.4000e-004	0.0000	2.2890	2.2890	1.8000e-004	0.0000	2.2934
Worker	8.5000e-004	3.1000e-004	4.5300e-003	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2144	0.2144	2.0000e-005	0.0000	0.2150
Total	1.3200e-003	0.0136	7.8900e-003	3.0000e-005	7.4000e-004	1.0000e-004	8.4000e-004	2.2000e-004	8.0000e-005	3.0000e-004	0.0000	3.0596	3.0596	2.6000e-004	0.0000	3.0662

3.6 Gen-tie 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

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3.6 Gen-tie 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	0.0000	1.1000e-004	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0227	0.0227	0.0000	0.0000	0.0227
Vendor	4.2000e-004	0.0112	3.0000e-003	3.0000e-005	6.2000e-004	8.0000e-005	7.0000e-004	1.8000e-004	8.0000e-005	2.6000e-004	0.0000	2.4320	2.4320	1.9000e-004	0.0000	2.4368
Worker	6.8000e-004	2.5000e-004	3.6100e-003	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1708	0.1708	2.0000e-005	0.0000	0.1713
Total	1.1000e-003	0.0115	6.6300e-003	3.0000e-005	7.2000e-004	8.0000e-005	8.1000e-004	2.0000e-004	8.0000e-005	2.9000e-004	0.0000	2.6255	2.6255	2.1000e-004	0.0000	2.6308

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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3.6 Gen-tie 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	0.0000	1.1000e-004	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0227	0.0227	0.0000	0.0000	0.0227
Vendor	4.2000e-004	0.0112	3.0000e-003	3.0000e-005	6.2000e-004	8.0000e-005	7.0000e-004	1.8000e-004	8.0000e-005	2.6000e-004	0.0000	2.4320	2.4320	1.9000e-004	0.0000	2.4368
Worker	6.8000e-004	2.5000e-004	3.6100e-003	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1708	0.1708	2.0000e-005	0.0000	0.1713
Total	1.1000e-003	0.0115	6.6300e-003	3.0000e-005	7.2000e-004	8.0000e-005	8.1000e-004	2.0000e-004	8.0000e-005	2.9000e-004	0.0000	2.6255	2.6255	2.1000e-004	0.0000	2.6308

3.6 Gen-tie 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	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204
Total	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5204

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3.6 Gen-tie 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	4.0000e-005	1.6100e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3453	0.3453	4.0000e-005	0.0000	0.3462
Vendor	5.2600e-003	0.1554	0.0413	3.8000e-004	9.4900e-003	7.9000e-004	0.0103	2.7400e-003	7.6000e-004	3.5000e-003	0.0000	37.0767	37.0767	2.7600e-003	0.0000	37.1458
Worker	9.5600e-003	3.4100e-003	0.0502	3.0000e-005	7.9000e-004	6.0000e-005	8.5000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5460	2.5460	2.6000e-004	0.0000	2.5524
Total	0.0149	0.1604	0.0919	4.1000e-004	0.0104	8.5000e-004	0.0112	2.9800e-003	8.2000e-004	3.8000e-003	0.0000	39.9679	39.9679	3.0600e-003	0.0000	40.0444

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	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203
Total	0.0759	0.4358	0.4806	7.4000e-004		0.0268	0.0268		0.0268	0.0268	0.0000	60.3657	60.3657	6.1900e-003	0.0000	60.5203

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3.6 Gen-tie 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	4.0000e-005	1.6100e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3453	0.3453	4.0000e-005	0.0000	0.3462
Vendor	5.2600e-003	0.1554	0.0413	3.8000e-004	9.4900e-003	7.9000e-004	0.0103	2.7400e-003	7.6000e-004	3.5000e-003	0.0000	37.0767	37.0767	2.7600e-003	0.0000	37.1458
Worker	9.5600e-003	3.4100e-003	0.0502	3.0000e-005	7.9000e-004	6.0000e-005	8.5000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5460	2.5460	2.6000e-004	0.0000	2.5524
Total	0.0149	0.1604	0.0919	4.1000e-004	0.0104	8.5000e-004	0.0112	2.9800e-003	8.2000e-004	3.8000e-003	0.0000	39.9679	39.9679	3.0600e-003	0.0000	40.0444

3.7 Paving of switchyard access road - 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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3.7 Paving of switchyard access road - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586
Total	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	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

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3.7 Paving of switchyard access road - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586
Total	1.3400e-003	4.8000e-004	7.0500e-003	0.0000	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3577	0.3577	4.0000e-005	0.0000	0.3586

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

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5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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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	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			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		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	tons/yr										MT/yr					
Mitigated	3.9100e-003	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	3.9100e-003	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	0.0000					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	3.9100e-003	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	0.0000					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	3.9100e-003	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

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

Campo Wind Facilities Construction Mitigated HRA

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/MWhr)	720.49	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 - Mitigated construction only. HRA emissions

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer. Onsite vehicle travel only.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Construction Off-road Equipment Mitigation - Implementation of mitigation measures M-AQ-1 and M-AQ-2.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0

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[illegible]

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	30.00	110.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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	1.00	8.00

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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	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00

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tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	138.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10

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tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

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	0.7071	8.1815	3.7602	9.0300e-003	1.9550	0.3298	2.2847	0.8771	0.3054	1.1825	0.0000	817.9752	817.9752	0.2176	0.0000	823.4143
2020	1.5370	14.8116	9.6711	0.0200	0.6119	0.6935	1.3054	0.3277	0.6561	0.9838	0.0000	1,738.8333	1,738.8333	0.3873	0.0000	1,748.5156
Maximum	1.5370	14.8116	9.6711	0.0200	1.9550	0.6935	2.2847	0.8771	0.6561	1.1825	0.0000	1,738.8333	1,738.8333	0.3873	0.0000	1,748.5156

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	0.1232	0.9845	3.7961	9.0300e-003	0.7852	0.0162	0.8014	0.3484	0.0161	0.3645	0.0000	817.9744	817.9744	0.2176	0.0000	823.4134
2020	0.2834	2.0396	10.4275	0.0200	0.2583	0.0302	0.2886	0.1333	0.0301	0.1635	0.0000	1,738.8314	1,738.8314	0.3873	0.0000	1,748.5137
Maximum	0.2834	2.0396	10.4275	0.0200	0.7852	0.0302	0.8014	0.3484	0.0301	0.3645	0.0000	1,738.8314	1,738.8314	0.3873	0.0000	1,748.5137

	ROG	NOx	CO	SO2	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	81.88	86.85	-5.90	0.00	59.35	95.46	69.64	60.01	95.20	75.63	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)
3	7-1-2019	9-30-2019	2.0963	0.2825
4	10-1-2019	12-31-2019	6.8035	0.8212
5	1-1-2020	3-31-2020	8.0721	1.2010
6	4-1-2020	6-30-2020	7.3351	0.9641
7	7-1-2020	9-30-2020	0.9207	0.1515
		Highest	8.0721	1.2010

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	0.1250	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250	0.0000	4.1000e-004	0.0000	0.0000	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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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	0.1250	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250	0.0000	4.1000e-004	0.0000	0.0000	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

	ROG	NOx	CO	SO2	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	Clearing and grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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	Crushing/Proc. Equipment	1	8.00	85	0.78
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 of access roads	Rubber Tired Loaders	7	8.00	203	0.36

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Construction of access roads	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	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
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
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
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Operations and maintenance facility	Welders	1	8.00	46	0.45
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Cranes	1	7.00	231	0.29

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Construction of collector substation	Generator Sets	2	8.00	84	0.74
Construction of collector substation	Pumps	1	8.00	84	0.74
Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Construction of collector substation	Welders	2	8.00	46	0.45
Meteorological towers	Cranes	1	7.00	231	0.29
Meteorological towers	Generator Sets	2	8.00	84	0.74
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45

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	15	72.00	108.00	734.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Meteorological towers	5	24.00	4.00	4.00	0.10	8.00	8.00	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					1.9177	0.0000	1.9177	0.8667	0.0000	0.8667	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	1.9177	0.2214	2.1391	0.8667	0.2044	1.0712	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	1.7400e-003	0.0667	0.0133	1.4000e-004	2.5200e-003	1.9000e-004	2.7000e-003	6.9000e-004	1.8000e-004	8.7000e-004	0.0000	13.6100	13.6100	1.4900e-003	0.0000	13.6472
Vendor	0.0167	0.4402	0.1182	9.9000e-004	0.0243	3.1700e-003	0.0275	7.0300e-003	3.0300e-003	0.0101	0.0000	95.7934	95.7934	7.4700e-003	0.0000	95.9800
Worker	2.4600e-003	9.1000e-004	0.0132	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6230	0.6230	7.0000e-005	0.0000	0.6247
Total	0.0209	0.5078	0.1446	1.1400e-003	0.0271	3.3800e-003	0.0304	7.7700e-003	3.2200e-003	0.0110	0.0000	110.0263	110.0263	9.0300e-003	0.0000	110.2519

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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					0.7479	0.0000	0.7479	0.3380	0.0000	0.3380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0530	0.2296	1.9972	4.3600e-003		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	390.9134	390.9134	0.1193	0.0000	393.8954
Total	0.0530	0.2296	1.9972	4.3600e-003	0.7479	7.0600e-003	0.7550	0.3380	7.0600e-003	0.3451	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	1.7400e-003	0.0667	0.0133	1.4000e-004	2.5200e-003	1.9000e-004	2.7000e-003	6.9000e-004	1.8000e-004	8.7000e-004	0.0000	13.6100	13.6100	1.4900e-003	0.0000	13.6472
Vendor	0.0167	0.4402	0.1182	9.9000e-004	0.0243	3.1700e-003	0.0275	7.0300e-003	3.0300e-003	0.0101	0.0000	95.7934	95.7934	7.4700e-003	0.0000	95.9800
Worker	2.4600e-003	9.1000e-004	0.0132	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6230	0.6230	7.0000e-005	0.0000	0.6247
Total	0.0209	0.5078	0.1446	1.1400e-003	0.0271	3.3800e-003	0.0304	7.7700e-003	3.2200e-003	0.0110	0.0000	110.0263	110.0263	9.0300e-003	0.0000	110.2519

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3.3 Construction of 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	0.2006	2.4296	1.2039	2.9900e-003		0.0888	0.0888		0.0817	0.0817	0.0000	268.3827	268.3827	0.0849	0.0000	270.5055
Total	0.2006	2.4296	1.2039	2.9900e-003	0.0000	0.0888	0.0888	0.0000	0.0817	0.0817	0.0000	268.3827	268.3827	0.0849	0.0000	270.5055

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	3.0000e-005	1.0300e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2102	0.2102	2.0000e-005	0.0000	0.2108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4400e-003	1.6400e-003	0.0237	1.0000e-005	3.4000e-004	3.0000e-005	3.7000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.1221	1.1221	1.2000e-004	0.0000	1.1251
Total	4.4700e-003	2.6700e-003	0.0239	1.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3359

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3.3 Construction of 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	0.0369	0.1598	1.3519	2.9900e-003		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	268.3824	268.3824	0.0849	0.0000	270.5052
Total	0.0369	0.1598	1.3519	2.9900e-003	0.0000	4.9200e-003	4.9200e-003	0.0000	4.9200e-003	4.9200e-003	0.0000	268.3824	268.3824	0.0849	0.0000	270.5052

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	3.0000e-005	1.0300e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2102	0.2102	2.0000e-005	0.0000	0.2108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4400e-003	1.6400e-003	0.0237	1.0000e-005	3.4000e-004	3.0000e-005	3.7000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.1221	1.1221	1.2000e-004	0.0000	1.1251
Total	4.4700e-003	2.6700e-003	0.0239	1.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3359

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3.3 Construction of 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					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	0.1763	2.0829	1.0655	2.8100e-003		0.0756	0.0756		0.0696	0.0696	0.0000	246.8184	246.8184	0.0798	0.0000	248.8140
Total	0.1763	2.0829	1.0655	2.8100e-003	0.0000	0.0756	0.0756	0.0000	0.0696	0.0696	0.0000	246.8184	246.8184	0.0798	0.0000	248.8140

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-005	9.1000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1961	0.1961	2.0000e-005	0.0000	0.1966
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	3.8500e-003	1.3700e-003	0.0202	1.0000e-005	3.2000e-004	3.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0242	1.0242	1.0000e-004	0.0000	1.0268
Total	3.8700e-003	2.2800e-003	0.0204	1.0000e-005	3.9000e-004	3.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.2203	1.2203	1.2000e-004	0.0000	1.2234

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3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0347	0.1502	1.2712	2.8100e-003		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	246.8181	246.8181	0.0798	0.0000	248.8137
Total	0.0347	0.1502	1.2712	2.8100e-003	0.0000	4.6200e-003	4.6200e-003	0.0000	4.6200e-003	4.6200e-003	0.0000	246.8181	246.8181	0.0798	0.0000	248.8137

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-005	9.1000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1961	0.1961	2.0000e-005	0.0000	0.1966
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	3.8500e-003	1.3700e-003	0.0202	1.0000e-005	3.2000e-004	3.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0242	1.0242	1.0000e-004	0.0000	1.0268
Total	3.8700e-003	2.2800e-003	0.0204	1.0000e-005	3.9000e-004	3.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.2203	1.2203	1.2000e-004	0.0000	1.2234

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3.4 Gen-tie 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	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615
Total	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615

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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	6.0000e-004	0.0158	4.2400e-003	4.0000e-005	8.7000e-004	1.1000e-004	9.9000e-004	2.5000e-004	1.1000e-004	3.6000e-004	0.0000	3.4335	3.4335	2.7000e-004	0.0000	3.4401
Worker	1.2700e-003	4.7000e-004	6.7900e-003	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3215	0.3215	4.0000e-005	0.0000	0.3224
Total	1.9400e-003	0.0190	0.0116	5.0000e-005	1.0700e-003	1.3000e-004	1.2000e-003	3.1000e-004	1.3000e-004	4.3000e-004	0.0000	4.3113	4.3113	3.7000e-004	0.0000	4.3204

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

3.4 Gen-tie 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	2.9800e-003	0.0215	0.1709	2.7000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614
Total	2.9800e-003	0.0215	0.1709	2.7000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614

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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	6.0000e-004	0.0158	4.2400e-003	4.0000e-005	8.7000e-004	1.1000e-004	9.9000e-004	2.5000e-004	1.1000e-004	3.6000e-004	0.0000	3.4335	3.4335	2.7000e-004	0.0000	3.4401
Worker	1.2700e-003	4.7000e-004	6.7900e-003	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3215	0.3215	4.0000e-005	0.0000	0.3224
Total	1.9400e-003	0.0190	0.0116	5.0000e-005	1.0700e-003	1.3000e-004	1.2000e-003	3.1000e-004	1.3000e-004	4.3000e-004	0.0000	4.3113	4.3113	3.7000e-004	0.0000	4.3204

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

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	7.2000e-004	0.0277	5.5000e-003	6.0000e-005	8.0900e-003	8.0000e-005	8.1700e-003	2.0200e-003	7.0000e-005	2.0900e-003	0.0000	5.6480	5.6480	6.2000e-004	0.0000	5.6634
Vendor	3.5000e-004	9.2000e-003	2.4700e-003	2.0000e-005	5.1000e-004	7.0000e-005	5.8000e-004	1.5000e-004	6.0000e-005	2.1000e-004	0.0000	2.0029	2.0029	1.6000e-004	0.0000	2.0068
Worker	6.5000e-004	2.4000e-004	3.4700e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1641	0.1641	2.0000e-005	0.0000	0.1646
Total	1.7200e-003	0.0371	0.0114	8.0000e-005	8.6500e-003	1.5000e-004	8.8000e-003	2.1800e-003	1.3000e-004	2.3200e-003	0.0000	7.8149	7.8149	8.0000e-004	0.0000	7.8347

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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	1.3400e-003	5.7900e-003	0.0824	1.3000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.4875	11.4875	8.1000e-004	0.0000	11.5077
Total	1.3400e-003	5.7900e-003	0.0824	1.3000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	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	7.2000e-004	0.0277	5.5000e-003	6.0000e-005	8.0900e-003	8.0000e-005	8.1700e-003	2.0200e-003	7.0000e-005	2.0900e-003	0.0000	5.6480	5.6480	6.2000e-004	0.0000	5.6634
Vendor	3.5000e-004	9.2000e-003	2.4700e-003	2.0000e-005	5.1000e-004	7.0000e-005	5.8000e-004	1.5000e-004	6.0000e-005	2.1000e-004	0.0000	2.0029	2.0029	1.6000e-004	0.0000	2.0068
Worker	6.5000e-004	2.4000e-004	3.4700e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1641	0.1641	2.0000e-005	0.0000	0.1646
Total	1.7200e-003	0.0371	0.0114	8.0000e-005	8.6500e-003	1.5000e-004	8.8000e-003	2.1800e-003	1.3000e-004	2.3200e-003	0.0000	7.8149	7.8149	8.0000e-004	0.0000	7.8347

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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	5.8800e-003	0.2343	0.0476	5.1000e-004	0.0102	5.4000e-004	0.0107	2.7800e-003	5.2000e-004	3.2900e-003	0.0000	50.4095	50.4095	5.3600e-003	0.0000	50.5436
Vendor	2.5400e-003	0.0750	0.0200	1.8000e-004	4.5800e-003	3.8000e-004	4.9600e-003	1.3200e-003	3.6000e-004	1.6900e-003	0.0000	17.8991	17.8991	1.3300e-003	0.0000	17.9324
Worker	5.3900e-003	1.9200e-003	0.0283	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.4339	1.4339	1.4000e-004	0.0000	1.4376
Total	0.0138	0.3112	0.0958	7.1000e-004	0.0152	9.6000e-004	0.0162	4.2200e-003	9.1000e-004	5.1400e-003	0.0000	69.7425	69.7425	6.8300e-003	0.0000	69.9136

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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	0.0120	0.0521	0.7420	1.2000e-003		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	103.3870	103.3870	6.5600e-003	0.0000	103.5511
Total	0.0120	0.0521	0.7420	1.2000e-003		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	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	5.8800e-003	0.2343	0.0476	5.1000e-004	0.0102	5.4000e-004	0.0107	2.7800e-003	5.2000e-004	3.2900e-003	0.0000	50.4095	50.4095	5.3600e-003	0.0000	50.5436
Vendor	2.5400e-003	0.0750	0.0200	1.8000e-004	4.5800e-003	3.8000e-004	4.9600e-003	1.3200e-003	3.6000e-004	1.6900e-003	0.0000	17.8991	17.8991	1.3300e-003	0.0000	17.9324
Worker	5.3900e-003	1.9200e-003	0.0283	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.4339	1.4339	1.4000e-004	0.0000	1.4376
Total	0.0138	0.3112	0.0958	7.1000e-004	0.0152	9.6000e-004	0.0162	4.2200e-003	9.1000e-004	5.1400e-003	0.0000	69.7425	69.7425	6.8300e-003	0.0000	69.9136

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3.6 Gen-tie 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	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	8.0000e-005	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Vendor	2.0000e-005	6.6000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1431	0.1431	1.0000e-005	0.0000	0.1433
Worker	4.0000e-005	1.0000e-005	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101	0.0101	0.0000	0.0000	0.0101
Total	6.0000e-005	7.5000e-004	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1686	0.1686	1.0000e-005	0.0000	0.1689

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3.6 Gen-tie 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	4.0000e-005	5.1000e-004	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	4.0000e-005	5.1000e-004	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	8.0000e-005	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Vendor	2.0000e-005	6.6000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1431	0.1431	1.0000e-005	0.0000	0.1433
Worker	4.0000e-005	1.0000e-005	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101	0.0101	0.0000	0.0000	0.0101
Total	6.0000e-005	7.5000e-004	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1686	0.1686	1.0000e-005	0.0000	0.1689

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3.6 Gen-tie 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	4.0000e-005	1.6400e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3524	0.3524	4.0000e-005	0.0000	0.3534
Vendor	4.6000e-004	0.0137	3.6400e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.1000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.2673	3.2673	2.4000e-004	0.0000	3.2734
Worker	8.4000e-004	3.0000e-004	4.4200e-003	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2244	0.2244	2.0000e-005	0.0000	0.2249
Total	1.3400e-003	0.0156	8.3900e-003	3.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	3.8441	3.8441	3.0000e-004	0.0000	3.8517

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

3.6 Gen-tie 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	8.4000e-004	0.0118	0.0397	7.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.3196	5.3196	5.5000e-004	0.0000	5.3332
Total	8.4000e-004	0.0118	0.0397	7.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	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	4.0000e-005	1.6400e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3524	0.3524	4.0000e-005	0.0000	0.3534
Vendor	4.6000e-004	0.0137	3.6400e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.1000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.2673	3.2673	2.4000e-004	0.0000	3.2734
Worker	8.4000e-004	3.0000e-004	4.4200e-003	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2244	0.2244	2.0000e-005	0.0000	0.2249
Total	1.3400e-003	0.0156	8.3900e-003	3.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	3.8441	3.8441	3.0000e-004	0.0000	3.8517

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3.7 Construction of underground electrical collection system - 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	0.2193	2.1803	1.3342	2.0600e-003		0.1296	0.1296		0.1192	0.1192	0.0000	181.1873	181.1873	0.0586	0.0000	182.6523
Total	0.2193	2.1803	1.3342	2.0600e-003	0.5796	0.1296	0.7092	0.3186	0.1192	0.4379	0.0000	181.1873	181.1873	0.0586	0.0000	182.6523

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	7.9000e-004	0.0315	6.3900e-003	7.0000e-005	1.2600e-003	7.0000e-005	1.3300e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	6.7669	6.7669	7.2000e-004	0.0000	6.7849
Vendor	2.6600e-003	0.0786	0.0209	1.9000e-004	4.8000e-003	4.0000e-004	5.2000e-003	1.3900e-003	3.8000e-004	1.7700e-003	0.0000	18.7514	18.7514	1.4000e-003	0.0000	18.7864
Worker	0.0134	4.7900e-003	0.0705	4.0000e-005	1.1100e-003	9.0000e-005	1.2000e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.5767	3.5767	3.6000e-004	0.0000	3.5857
Total	0.0169	0.1148	0.0978	3.0000e-004	7.1700e-003	5.6000e-004	7.7300e-003	2.0500e-003	5.3000e-004	2.5800e-003	0.0000	29.0950	29.0950	2.4800e-003	0.0000	29.1570

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

3.7 Construction of underground electrical collection system - 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	0.0252	0.1093	1.3042	2.0600e-003		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	181.1871	181.1871	0.0586	0.0000	182.6521
Total	0.0252	0.1093	1.3042	2.0600e-003	0.2261	3.3600e-003	0.2294	0.1243	3.3600e-003	0.1276	0.0000	181.1871	181.1871	0.0586	0.0000	182.6521

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	7.9000e-004	0.0315	6.3900e-003	7.0000e-005	1.2600e-003	7.0000e-005	1.3300e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	6.7669	6.7669	7.2000e-004	0.0000	6.7849
Vendor	2.6600e-003	0.0786	0.0209	1.9000e-004	4.8000e-003	4.0000e-004	5.2000e-003	1.3900e-003	3.8000e-004	1.7700e-003	0.0000	18.7514	18.7514	1.4000e-003	0.0000	18.7864
Worker	0.0134	4.7900e-003	0.0705	4.0000e-005	1.1100e-003	9.0000e-005	1.2000e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.5767	3.5767	3.6000e-004	0.0000	3.5857
Total	0.0169	0.1148	0.0978	3.0000e-004	7.1700e-003	5.6000e-004	7.7300e-003	2.0500e-003	5.3000e-004	2.5800e-003	0.0000	29.0950	29.0950	2.4800e-003	0.0000	29.1570

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

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

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	0.0615	0.0125	1.3000e-004	2.4700e-003	1.4000e-004	2.6100e-003	6.8000e-004	1.4000e-004	8.1000e-004	0.0000	13.2395	13.2395	1.4100e-003	0.0000	13.2747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0600e-003	2.8700e-003	0.0423	2.0000e-005	6.7000e-004	5.0000e-005	7.2000e-004	1.9000e-004	5.0000e-005	2.4000e-004	0.0000	2.1460	2.1460	2.2000e-004	0.0000	2.1515
Total	9.6100e-003	0.0644	0.0548	1.5000e-004	3.1400e-003	1.9000e-004	3.3300e-003	8.7000e-004	1.9000e-004	1.0500e-003	0.0000	15.3856	15.3856	1.6300e-003	0.0000	15.4262

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

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	tons/yr										MT/yr					
Off-Road	0.1041	0.7647	4.3373	8.5000e-003		0.0128	0.0128		0.0128	0.0128	0.0000	728.8638	728.8638	0.1725	0.0000	733.1761
Total	0.1041	0.7647	4.3373	8.5000e-003		0.0128	0.0128		0.0128	0.0128	0.0000	728.8638	728.8638	0.1725	0.0000	733.1761

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	0.0615	0.0125	1.3000e-004	2.4700e-003	1.4000e-004	2.6100e-003	6.8000e-004	1.4000e-004	8.1000e-004	0.0000	13.2395	13.2395	1.4100e-003	0.0000	13.2747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0600e-003	2.8700e-003	0.0423	2.0000e-005	6.7000e-004	5.0000e-005	7.2000e-004	1.9000e-004	5.0000e-005	2.4000e-004	0.0000	2.1460	2.1460	2.2000e-004	0.0000	2.1515
Total	9.6100e-003	0.0644	0.0548	1.5000e-004	3.1400e-003	1.9000e-004	3.3300e-003	8.7000e-004	1.9000e-004	1.0500e-003	0.0000	15.3856	15.3856	1.6300e-003	0.0000	15.4262

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3.9 Operations and maintenance facility - 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	4.0000e-005	1.7100e-003	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3678	0.3678	4.0000e-005	0.0000	0.3687
Vendor	1.2500e-003	0.0369	9.8200e-003	9.0000e-005	2.2500e-003	1.9000e-004	2.4400e-003	6.5000e-004	1.8000e-004	8.3000e-004	0.0000	8.8075	8.8075	6.6000e-004	0.0000	8.8239
Worker	9.4700e-003	3.3700e-003	0.0497	3.0000e-005	7.8000e-004	6.0000e-005	8.4000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5200	2.5200	2.5000e-004	0.0000	2.5263
Total	0.0108	0.0420	0.0599	1.2000e-004	3.1000e-003	2.5000e-004	3.3500e-003	8.9000e-004	2.4000e-004	1.1300e-003	0.0000	11.6952	11.6952	9.5000e-004	0.0000	11.7190

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3.9 Operations and maintenance facility - 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	4.0000e-005	1.7100e-003	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3678	0.3678	4.0000e-005	0.0000	0.3687
Vendor	1.2500e-003	0.0369	9.8200e-003	9.0000e-005	2.2500e-003	1.9000e-004	2.4400e-003	6.5000e-004	1.8000e-004	8.3000e-004	0.0000	8.8075	8.8075	6.6000e-004	0.0000	8.8239
Worker	9.4700e-003	3.3700e-003	0.0497	3.0000e-005	7.8000e-004	6.0000e-005	8.4000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5200	2.5200	2.5000e-004	0.0000	2.5263
Total	0.0108	0.0420	0.0599	1.2000e-004	3.1000e-003	2.5000e-004	3.3500e-003	8.9000e-004	2.4000e-004	1.1300e-003	0.0000	11.6952	11.6952	9.5000e-004	0.0000	11.7190

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3.10 Construction of collector substation - 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	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388
Total	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388

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	3.0000e-004	0.0118	2.4000e-003	3.0000e-005	4.7000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.5376	2.5376	2.7000e-004	0.0000	2.5443
Vendor	6.7000e-004	0.0196	5.2300e-003	5.0000e-005	1.2000e-003	1.0000e-004	1.3000e-003	3.5000e-004	1.0000e-004	4.4000e-004	0.0000	4.6879	4.6879	3.5000e-004	0.0000	4.6966
Worker	2.6900e-003	9.6000e-004	0.0141	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7153	0.7153	7.0000e-005	0.0000	0.7172
Total	3.6600e-003	0.0324	0.0217	9.0000e-005	1.8900e-003	1.5000e-004	2.0400e-003	5.4000e-004	1.5000e-004	6.8000e-004	0.0000	7.9408	7.9408	6.9000e-004	0.0000	7.9581

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

3.10 Construction of collector substation - 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	0.0268	0.2055	1.4316	2.3100e-003		3.2400e-003	3.2400e-003		3.2400e-003	3.2400e-003	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385
Total	0.0268	0.2055	1.4316	2.3100e-003		3.2400e-003	3.2400e-003		3.2400e-003	3.2400e-003	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385

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	3.0000e-004	0.0118	2.4000e-003	3.0000e-005	4.7000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.5376	2.5376	2.7000e-004	0.0000	2.5443
Vendor	6.7000e-004	0.0196	5.2300e-003	5.0000e-005	1.2000e-003	1.0000e-004	1.3000e-003	3.5000e-004	1.0000e-004	4.4000e-004	0.0000	4.6879	4.6879	3.5000e-004	0.0000	4.6966
Worker	2.6900e-003	9.6000e-004	0.0141	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7153	0.7153	7.0000e-005	0.0000	0.7172
Total	3.6600e-003	0.0324	0.0217	9.0000e-005	1.8900e-003	1.5000e-004	2.0400e-003	5.4000e-004	1.5000e-004	6.8000e-004	0.0000	7.9408	7.9408	6.9000e-004	0.0000	7.9581

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

3.11 Meteorological 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	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0736	0.0736	1.0000e-005	0.0000	0.0738
Vendor	2.0000e-004	5.9500e-003	1.5800e-003	1.0000e-005	3.6000e-004	3.0000e-005	3.9000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.4206	1.4206	1.1000e-004	0.0000	1.4232
Worker	3.1000e-004	1.1000e-004	1.6000e-003	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0813	0.0813	1.0000e-005	0.0000	0.0815
Total	5.2000e-004	6.4000e-003	3.2500e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5754	1.5754	1.3000e-004	0.0000	1.5785

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

3.11 Meteorological 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	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0736	0.0736	1.0000e-005	0.0000	0.0738
Vendor	2.0000e-004	5.9500e-003	1.5800e-003	1.0000e-005	3.6000e-004	3.0000e-005	3.9000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.4206	1.4206	1.1000e-004	0.0000	1.4232
Worker	3.1000e-004	1.1000e-004	1.6000e-003	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0813	0.0813	1.0000e-005	0.0000	0.0815
Total	5.2000e-004	6.4000e-003	3.2500e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5754	1.5754	1.3000e-004	0.0000	1.5785

4.0 Operational Detail - Mobile

Campo Wind Facilities Construction Mitigated HRA - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

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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

[illegible]

Campo Wind Facilities Construction Mitigated HRA - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

Campo Wind Facilities Construction Mitigated HRA - 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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Campo Wind Facilities Construction Mitigated HRA - 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	0.1250	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	0.1250	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	0.0000					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	0.1250	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 Wind Facilities Construction Mitigated HRA - 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	0.0000					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	0.1250	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 Wind Facilities Construction Mitigated HRA - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities Construction Mitigated HRA - 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 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Campo Wind Facilities Construction Mitigated HRA - 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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Campo Wind Facilities Construction Mitigated HRA - 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 Wind Facilities Construction Unmitigated HRA - San Diego County, Annual

Campo Wind Facilities Construction Unmitigated HRA

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/MWhr)	720.49	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 - Unmitigated construction only. HRA Emissions

Land Use -

Construction Phase - Data provided by Developer.

Off-road Equipment - Data provided by applicant.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Off-road Equipment - Data provided by Developer.

Trips and VMT - Data provided by Developer. Onsite travel only.

Grading - Data provided by Developer.

Vehicle Trips - Construction emissions only.

Consumer Products - Construction emissions only.

Area Coating - Construction emissions only.

Landscape Equipment - Construction emissions only.

Energy Use - Construction emissions only.

Water And Wastewater - Construction emissions only.

Solid Waste - Construction emissions only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaCoating	Area_Parking	112385	0

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tblConstructionPhase	NumDays	740.00	25.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	70.00
tblConstructionPhase	NumDays	740.00	24.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	740.00	155.00
tblConstructionPhase	NumDays	740.00	110.00
tblConstructionPhase	NumDays	75.00	62.00
tblConstructionPhase	NumDays	75.00	130.00
tblConstructionPhase	NumDays	30.00	110.00
tblEnergyUse	LightingElect	3.81	0.00
tblEnergyUse	NT24E	4.97	0.00
tblEnergyUse	NT24NG	4.20	0.00
tblEnergyUse	T24E	4.66	0.00
tblEnergyUse	T24NG	15.99	0.00
tblGrading	AcresOfGrading	279.00	800.00
tblGrading	AcresOfGrading	390.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	19.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	7.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	734.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	0.00	30.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,046.00

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tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	368.00
tblTripsAndVMT	HaulingTripNumber	0.00	720.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
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tblTripsAndVMT	VendorTripLength	6.60	8.00
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tblTripsAndVMT	VendorTripLength	6.60	8.00
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tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripLength	6.60	8.00
tblTripsAndVMT	VendorTripNumber	0.00	108.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	307.00	20.00
tblTripsAndVMT	VendorTripNumber	307.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	307.00	0.00
tblTripsAndVMT	VendorTripNumber	307.00	4.00
tblTripsAndVMT	VendorTripNumber	307.00	3.00
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10

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tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripLength	16.80	0.10
tblTripsAndVMT	WorkerTripNumber	38.00	72.00
tblTripsAndVMT	WorkerTripNumber	787.00	24.00
tblTripsAndVMT	WorkerTripNumber	25.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	96.00
tblTripsAndVMT	WorkerTripNumber	787.00	168.00
tblTripsAndVMT	WorkerTripNumber	787.00	72.00
tblTripsAndVMT	WorkerTripNumber	23.00	240.00
tblTripsAndVMT	WorkerTripNumber	787.00	144.00
tblTripsAndVMT	WorkerTripNumber	787.00	120.00
tblTripsAndVMT	WorkerTripNumber	787.00	48.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

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	0.7071	8.1815	3.7602	9.0300e-003	1.9550	0.3298	2.2847	0.8771	0.3054	1.1825	0.0000	817.9752	817.9752	0.2176	0.0000	823.4143
2020	1.5370	14.8116	9.6711	0.0200	0.6119	0.6935	1.3054	0.3277	0.6561	0.9838	0.0000	1,738.8333	1,738.8333	0.3873	0.0000	1,748.5156
Maximum	1.5370	14.8116	9.6711	0.0200	1.9550	0.6935	2.2847	0.8771	0.6561	1.1825	0.0000	1,738.8333	1,738.8333	0.3873	0.0000	1,748.5156

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	0.7071	8.1815	3.7601	9.0300e-003	1.9550	0.3298	2.2847	0.8771	0.3054	1.1825	0.0000	817.9744	817.9744	0.2176	0.0000	823.4134
2020	1.5370	14.8116	9.6710	0.0200	0.6119	0.6935	1.3054	0.3277	0.6561	0.9838	0.0000	1,738.8314	1,738.8314	0.3873	0.0000	1,748.5137
Maximum	1.5370	14.8116	9.6710	0.0200	1.9550	0.6935	2.2847	0.8771	0.6561	1.1825	0.0000	1,738.8314	1,738.8314	0.3873	0.0000	1,748.5137

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	7-1-2019	9-30-2019	2.0963	2.0963
4	10-1-2019	12-31-2019	6.8035	6.8035
5	1-1-2020	3-31-2020	8.0721	8.0721
6	4-1-2020	6-30-2020	7.3351	7.3351
7	7-1-2020	9-30-2020	0.9207	0.9207
		Highest	8.0721	8.0721

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	0.1250	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250	0.0000	4.1000e-004	0.0000	0.0000	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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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	0.1250	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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1250	0.0000	4.1000e-004	0.0000	0.0000	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

	ROG	NOx	CO	SO2	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	Clearing and grading	Grading	9/1/2019	11/26/2019	5	62	
2	Construction of access roads	Grading	9/29/2019	3/28/2020	5	130	
3	Gen-tie foundation construction and tower erection	Building Construction	11/26/2019	12/28/2019	5	24	
4	Wind turbine foundation construction	Building Construction	12/22/2019	3/28/2020	5	70	
5	Gen-tie stringing and pulling	Building Construction	12/31/2019	2/2/2020	5	24	
6	Construction of underground electrical collection system	Site Preparation	1/19/2020	6/20/2020	5	110	
7	Wind turbine erection	Building Construction	2/2/2020	7/4/2020	5	110	
8	Operations and maintenance facility	Building Construction	2/2/2020	9/5/2020	5	155	
9	Construction of collector substation	Building Construction	3/1/2020	7/31/2020	5	110	
10	Meteorological 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	Crushing/Proc. Equipment	1	8.00	85	0.78
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 of access roads	Rubber Tired Loaders	7	8.00	203	0.36

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Construction of access roads	Scrapers	3	8.00	367	0.48
Gen-tie foundation construction and tower erection	Air Compressors	1	7.00	78	0.48
Gen-tie foundation construction and tower erection	Forklifts	1	8.00	89	0.20
Gen-tie foundation construction and tower erection	Generator Sets	2	6.00	84	0.74
Gen-tie foundation construction and tower erection	Pumps	1	7.00	84	0.74
Gen-tie foundation construction and tower erection	Welders	1	7.00	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
Gen-tie stringing and pulling	Air Compressors	1	7.00	78	0.48
Gen-tie stringing and pulling	Welders	1	7.00	46	0.45
Construction of underground electrical collection system	Rubber Tired Dozers	2	7.00	247	0.40
Construction of underground electrical collection system	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Construction of underground electrical collection system	Trenchers	3	8.00	78	0.50
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
Operations and maintenance facility	Cranes	1	7.00	231	0.29
Operations and maintenance facility	Generator Sets	1	8.00	84	0.74
Operations and maintenance facility	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Operations and maintenance facility	Welders	1	8.00	46	0.45
Construction of collector substation	Air Compressors	1	8.00	78	0.48
Construction of collector substation	Cranes	1	7.00	231	0.29

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Construction of collector substation	Generator Sets	2	8.00	84	0.74
Construction of collector substation	Pumps	1	8.00	84	0.74
Construction of collector substation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Construction of collector substation	Welders	2	8.00	46	0.45
Meteorological towers	Cranes	1	7.00	231	0.29
Meteorological towers	Generator Sets	2	8.00	84	0.74
Meteorological towers	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Meteorological towers	Welders	1	8.00	46	0.45

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	15	72.00	108.00	734.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Construction of access roads	10	120.00	0.00	22.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie foundation construction and tower	6	96.00	10.00	30.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Wind turbine foundation construction	7	168.00	20.00	3,046.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Gen-tie stringing and pulling	2	72.00	10.00	20.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Construction of underground electrical	9	240.00	12.00	368.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Wind turbine erection	33	144.00	0.00	720.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Operations and maintenance facility	4	120.00	4.00	20.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Construction of collector substation	10	48.00	3.00	138.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT
Meteorological towers	5	24.00	4.00	4.00	0.10	8.00	8.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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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					1.9177	0.0000	1.9177	0.8667	0.0000	0.8667	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	1.9177	0.2214	2.1391	0.8667	0.2044	1.0712	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	1.7400e-003	0.0667	0.0133	1.4000e-004	2.5200e-003	1.9000e-004	2.7000e-003	6.9000e-004	1.8000e-004	8.7000e-004	0.0000	13.6100	13.6100	1.4900e-003	0.0000	13.6472
Vendor	0.0167	0.4402	0.1182	9.9000e-004	0.0243	3.1700e-003	0.0275	7.0300e-003	3.0300e-003	0.0101	0.0000	95.7934	95.7934	7.4700e-003	0.0000	95.9800
Worker	2.4600e-003	9.1000e-004	0.0132	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6230	0.6230	7.0000e-005	0.0000	0.6247
Total	0.0209	0.5078	0.1446	1.1400e-003	0.0271	3.3800e-003	0.0304	7.7700e-003	3.2200e-003	0.0110	0.0000	110.0263	110.0263	9.0300e-003	0.0000	110.2519

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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					1.9177	0.0000	1.9177	0.8667	0.0000	0.8667	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	390.9134	390.9134	0.1193	0.0000	393.8954
Total	0.4445	4.9358	2.1186	4.3600e-003	1.9177	0.2214	2.1391	0.8667	0.2044	1.0712	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	1.7400e-003	0.0667	0.0133	1.4000e-004	2.5200e-003	1.9000e-004	2.7000e-003	6.9000e-004	1.8000e-004	8.7000e-004	0.0000	13.6100	13.6100	1.4900e-003	0.0000	13.6472
Vendor	0.0167	0.4402	0.1182	9.9000e-004	0.0243	3.1700e-003	0.0275	7.0300e-003	3.0300e-003	0.0101	0.0000	95.7934	95.7934	7.4700e-003	0.0000	95.9800
Worker	2.4600e-003	9.1000e-004	0.0132	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6230	0.6230	7.0000e-005	0.0000	0.6247
Total	0.0209	0.5078	0.1446	1.1400e-003	0.0271	3.3800e-003	0.0304	7.7700e-003	3.2200e-003	0.0110	0.0000	110.0263	110.0263	9.0300e-003	0.0000	110.2519

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3.3 Construction of 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	0.2006	2.4296	1.2039	2.9900e-003		0.0888	0.0888		0.0817	0.0817	0.0000	268.3827	268.3827	0.0849	0.0000	270.5055
Total	0.2006	2.4296	1.2039	2.9900e-003	0.0000	0.0888	0.0888	0.0000	0.0817	0.0817	0.0000	268.3827	268.3827	0.0849	0.0000	270.5055

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	3.0000e-005	1.0300e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2102	0.2102	2.0000e-005	0.0000	0.2108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4400e-003	1.6400e-003	0.0237	1.0000e-005	3.4000e-004	3.0000e-005	3.7000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.1221	1.1221	1.2000e-004	0.0000	1.1251
Total	4.4700e-003	2.6700e-003	0.0239	1.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3359

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3.3 Construction of 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	0.2006	2.4296	1.2039	2.9900e-003		0.0888	0.0888		0.0817	0.0817	0.0000	268.3824	268.3824	0.0849	0.0000	270.5052
Total	0.2006	2.4296	1.2039	2.9900e-003	0.0000	0.0888	0.0888	0.0000	0.0817	0.0817	0.0000	268.3824	268.3824	0.0849	0.0000	270.5052

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	3.0000e-005	1.0300e-003	2.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2102	0.2102	2.0000e-005	0.0000	0.2108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4400e-003	1.6400e-003	0.0237	1.0000e-005	3.4000e-004	3.0000e-005	3.7000e-004	9.0000e-005	3.0000e-005	1.2000e-004	0.0000	1.1221	1.1221	1.2000e-004	0.0000	1.1251
Total	4.4700e-003	2.6700e-003	0.0239	1.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.3323	1.3323	1.4000e-004	0.0000	1.3359

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3.3 Construction of 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					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	0.1763	2.0829	1.0655	2.8100e-003		0.0756	0.0756		0.0696	0.0696	0.0000	246.8184	246.8184	0.0798	0.0000	248.8140
Total	0.1763	2.0829	1.0655	2.8100e-003	0.0000	0.0756	0.0756	0.0000	0.0696	0.0696	0.0000	246.8184	246.8184	0.0798	0.0000	248.8140

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-005	9.1000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1961	0.1961	2.0000e-005	0.0000	0.1966
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	3.8500e-003	1.3700e-003	0.0202	1.0000e-005	3.2000e-004	3.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0242	1.0242	1.0000e-004	0.0000	1.0268
Total	3.8700e-003	2.2800e-003	0.0204	1.0000e-005	3.9000e-004	3.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.2203	1.2203	1.2000e-004	0.0000	1.2234

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3.3 Construction of 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1763	2.0829	1.0655	2.8100e-003		0.0756	0.0756		0.0696	0.0696	0.0000	246.8181	246.8181	0.0798	0.0000	248.8137
Total	0.1763	2.0829	1.0655	2.8100e-003	0.0000	0.0756	0.0756	0.0000	0.0696	0.0696	0.0000	246.8181	246.8181	0.0798	0.0000	248.8137

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-005	9.1000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1961	0.1961	2.0000e-005	0.0000	0.1966
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	3.8500e-003	1.3700e-003	0.0202	1.0000e-005	3.2000e-004	3.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0242	1.0242	1.0000e-004	0.0000	1.0268
Total	3.8700e-003	2.2800e-003	0.0204	1.0000e-005	3.9000e-004	3.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.2203	1.2203	1.2000e-004	0.0000	1.2234

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3.4 Gen-tie 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	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615
Total	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3615

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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	6.0000e-004	0.0158	4.2400e-003	4.0000e-005	8.7000e-004	1.1000e-004	9.9000e-004	2.5000e-004	1.1000e-004	3.6000e-004	0.0000	3.4335	3.4335	2.7000e-004	0.0000	3.4401
Worker	1.2700e-003	4.7000e-004	6.7900e-003	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3215	0.3215	4.0000e-005	0.0000	0.3224
Total	1.9400e-003	0.0190	0.0116	5.0000e-005	1.0700e-003	1.3000e-004	1.2000e-003	3.1000e-004	1.3000e-004	4.3000e-004	0.0000	4.3113	4.3113	3.7000e-004	0.0000	4.3204

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3.4 Gen-tie 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	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614
Total	0.0226	0.1682	0.1658	2.7000e-004		0.0107	0.0107		0.0106	0.0106	0.0000	23.3066	23.3066	2.1900e-003	0.0000	23.3614

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	7.0000e-005	2.7300e-003	5.4000e-004	1.0000e-005	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5563	0.5563	6.0000e-005	0.0000	0.5578
Vendor	6.0000e-004	0.0158	4.2400e-003	4.0000e-005	8.7000e-004	1.1000e-004	9.9000e-004	2.5000e-004	1.1000e-004	3.6000e-004	0.0000	3.4335	3.4335	2.7000e-004	0.0000	3.4401
Worker	1.2700e-003	4.7000e-004	6.7900e-003	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3215	0.3215	4.0000e-005	0.0000	0.3224
Total	1.9400e-003	0.0190	0.0116	5.0000e-005	1.0700e-003	1.3000e-004	1.2000e-003	3.1000e-004	1.3000e-004	4.3000e-004	0.0000	4.3113	4.3113	3.7000e-004	0.0000	4.3204

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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	7.2000e-004	0.0277	5.5000e-003	6.0000e-005	8.0900e-003	8.0000e-005	8.1700e-003	2.0200e-003	7.0000e-005	2.0900e-003	0.0000	5.6480	5.6480	6.2000e-004	0.0000	5.6634
Vendor	3.5000e-004	9.2000e-003	2.4700e-003	2.0000e-005	5.1000e-004	7.0000e-005	5.8000e-004	1.5000e-004	6.0000e-005	2.1000e-004	0.0000	2.0029	2.0029	1.6000e-004	0.0000	2.0068
Worker	6.5000e-004	2.4000e-004	3.4700e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1641	0.1641	2.0000e-005	0.0000	0.1646
Total	1.7200e-003	0.0371	0.0114	8.0000e-005	8.6500e-003	1.5000e-004	8.8000e-003	2.1800e-003	1.3000e-004	2.3200e-003	0.0000	7.8149	7.8149	8.0000e-004	0.0000	7.8347

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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	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

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	7.2000e-004	0.0277	5.5000e-003	6.0000e-005	8.0900e-003	8.0000e-005	8.1700e-003	2.0200e-003	7.0000e-005	2.0900e-003	0.0000	5.6480	5.6480	6.2000e-004	0.0000	5.6634
Vendor	3.5000e-004	9.2000e-003	2.4700e-003	2.0000e-005	5.1000e-004	7.0000e-005	5.8000e-004	1.5000e-004	6.0000e-005	2.1000e-004	0.0000	2.0029	2.0029	1.6000e-004	0.0000	2.0068
Worker	6.5000e-004	2.4000e-004	3.4700e-003	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1641	0.1641	2.0000e-005	0.0000	0.1646
Total	1.7200e-003	0.0371	0.0114	8.0000e-005	8.6500e-003	1.5000e-004	8.8000e-003	2.1800e-003	1.3000e-004	2.3200e-003	0.0000	7.8149	7.8149	8.0000e-004	0.0000	7.8347

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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	5.8800e-003	0.2343	0.0476	5.1000e-004	0.0102	5.4000e-004	0.0107	2.7800e-003	5.2000e-004	3.2900e-003	0.0000	50.4095	50.4095	5.3600e-003	0.0000	50.5436
Vendor	2.5400e-003	0.0750	0.0200	1.8000e-004	4.5800e-003	3.8000e-004	4.9600e-003	1.3200e-003	3.6000e-004	1.6900e-003	0.0000	17.8991	17.8991	1.3300e-003	0.0000	17.9324
Worker	5.3900e-003	1.9200e-003	0.0283	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.4339	1.4339	1.4000e-004	0.0000	1.4376
Total	0.0138	0.3112	0.0958	7.1000e-004	0.0152	9.6000e-004	0.0162	4.2200e-003	9.1000e-004	5.1400e-003	0.0000	69.7425	69.7425	6.8300e-003	0.0000	69.9136

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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	0.0816	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8800e-003	0.2343	0.0476	5.1000e-004	0.0102	5.4000e-004	0.0107	2.7800e-003	5.2000e-004	3.2900e-003	0.0000	50.4095	50.4095	5.3600e-003	0.0000	50.5436
Vendor	2.5400e-003	0.0750	0.0200	1.8000e-004	4.5800e-003	3.8000e-004	4.9600e-003	1.3200e-003	3.6000e-004	1.6900e-003	0.0000	17.8991	17.8991	1.3300e-003	0.0000	17.9324
Worker	5.3900e-003	1.9200e-003	0.0283	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.4339	1.4339	1.4000e-004	0.0000	1.4376
Total	0.0138	0.3112	0.0958	7.1000e-004	0.0152	9.6000e-004	0.0162	4.2200e-003	9.1000e-004	5.1400e-003	0.0000	69.7425	69.7425	6.8300e-003	0.0000	69.9136

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3.6 Gen-tie 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	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	8.0000e-005	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Vendor	2.0000e-005	6.6000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1431	0.1431	1.0000e-005	0.0000	0.1433
Worker	4.0000e-005	1.0000e-005	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101	0.0101	0.0000	0.0000	0.0101
Total	6.0000e-005	7.5000e-004	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1686	0.1686	1.0000e-005	0.0000	0.1689

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3.6 Gen-tie 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	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319
Total	3.2000e-004	1.7800e-003	1.8600e-003	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.2313	0.2313	3.0000e-005	0.0000	0.2319

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	8.0000e-005	2.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Vendor	2.0000e-005	6.6000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1431	0.1431	1.0000e-005	0.0000	0.1433
Worker	4.0000e-005	1.0000e-005	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101	0.0101	0.0000	0.0000	0.0101
Total	6.0000e-005	7.5000e-004	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1686	0.1686	1.0000e-005	0.0000	0.1689

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3.6 Gen-tie 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	4.0000e-005	1.6400e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3524	0.3524	4.0000e-005	0.0000	0.3534
Vendor	4.6000e-004	0.0137	3.6400e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.1000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.2673	3.2673	2.4000e-004	0.0000	3.2734
Worker	8.4000e-004	3.0000e-004	4.4200e-003	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2244	0.2244	2.0000e-005	0.0000	0.2249
Total	1.3400e-003	0.0156	8.3900e-003	3.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	3.8441	3.8441	3.0000e-004	0.0000	3.8517

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3.6 Gen-tie 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	4.0000e-005	1.6400e-003	3.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3524	0.3524	4.0000e-005	0.0000	0.3534
Vendor	4.6000e-004	0.0137	3.6400e-003	3.0000e-005	8.4000e-004	7.0000e-005	9.1000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.2673	3.2673	2.4000e-004	0.0000	3.2734
Worker	8.4000e-004	3.0000e-004	4.4200e-003	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2244	0.2244	2.0000e-005	0.0000	0.2249
Total	1.3400e-003	0.0156	8.3900e-003	3.0000e-005	9.8000e-004	8.0000e-005	1.0600e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	3.8441	3.8441	3.0000e-004	0.0000	3.8517

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3.7 Construction of underground electrical collection system - 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	0.2193	2.1803	1.3342	2.0600e-003		0.1296	0.1296		0.1192	0.1192	0.0000	181.1873	181.1873	0.0586	0.0000	182.6523
Total	0.2193	2.1803	1.3342	2.0600e-003	0.5796	0.1296	0.7092	0.3186	0.1192	0.4379	0.0000	181.1873	181.1873	0.0586	0.0000	182.6523

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	7.9000e-004	0.0315	6.3900e-003	7.0000e-005	1.2600e-003	7.0000e-005	1.3300e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	6.7669	6.7669	7.2000e-004	0.0000	6.7849
Vendor	2.6600e-003	0.0786	0.0209	1.9000e-004	4.8000e-003	4.0000e-004	5.2000e-003	1.3900e-003	3.8000e-004	1.7700e-003	0.0000	18.7514	18.7514	1.4000e-003	0.0000	18.7864
Worker	0.0134	4.7900e-003	0.0705	4.0000e-005	1.1100e-003	9.0000e-005	1.2000e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.5767	3.5767	3.6000e-004	0.0000	3.5857
Total	0.0169	0.1148	0.0978	3.0000e-004	7.1700e-003	5.6000e-004	7.7300e-003	2.0500e-003	5.3000e-004	2.5800e-003	0.0000	29.0950	29.0950	2.4800e-003	0.0000	29.1570

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3.7 Construction of underground electrical collection system - 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					0.5796	0.0000	0.5796	0.3186	0.0000	0.3186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2193	2.1803	1.3342	2.0600e-003		0.1296	0.1296		0.1192	0.1192	0.0000	181.1871	181.1871	0.0586	0.0000	182.6521
Total	0.2193	2.1803	1.3342	2.0600e-003	0.5796	0.1296	0.7092	0.3186	0.1192	0.4379	0.0000	181.1871	181.1871	0.0586	0.0000	182.6521

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	7.9000e-004	0.0315	6.3900e-003	7.0000e-005	1.2600e-003	7.0000e-005	1.3300e-003	3.5000e-004	7.0000e-005	4.2000e-004	0.0000	6.7669	6.7669	7.2000e-004	0.0000	6.7849
Vendor	2.6600e-003	0.0786	0.0209	1.9000e-004	4.8000e-003	4.0000e-004	5.2000e-003	1.3900e-003	3.8000e-004	1.7700e-003	0.0000	18.7514	18.7514	1.4000e-003	0.0000	18.7864
Worker	0.0134	4.7900e-003	0.0705	4.0000e-005	1.1100e-003	9.0000e-005	1.2000e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.5767	3.5767	3.6000e-004	0.0000	3.5857
Total	0.0169	0.1148	0.0978	3.0000e-004	7.1700e-003	5.6000e-004	7.7300e-003	2.0500e-003	5.3000e-004	2.5800e-003	0.0000	29.0950	29.0950	2.4800e-003	0.0000	29.1570

Campo Wind Facilities Construction Unmitigated HRA - San Diego County, Annual

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

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	0.0615	0.0125	1.3000e-004	2.4700e-003	1.4000e-004	2.6100e-003	6.8000e-004	1.4000e-004	8.1000e-004	0.0000	13.2395	13.2395	1.4100e-003	0.0000	13.2747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0600e-003	2.8700e-003	0.0423	2.0000e-005	6.7000e-004	5.0000e-005	7.2000e-004	1.9000e-004	5.0000e-005	2.4000e-004	0.0000	2.1460	2.1460	2.2000e-004	0.0000	2.1515
Total	9.6100e-003	0.0644	0.0548	1.5000e-004	3.1400e-003	1.9000e-004	3.3300e-003	8.7000e-004	1.9000e-004	1.0500e-003	0.0000	15.3856	15.3856	1.6300e-003	0.0000	15.4262

Campo Wind Facilities Construction Unmitigated HRA - San Diego County, Annual

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	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

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	0.0615	0.0125	1.3000e-004	2.4700e-003	1.4000e-004	2.6100e-003	6.8000e-004	1.4000e-004	8.1000e-004	0.0000	13.2395	13.2395	1.4100e-003	0.0000	13.2747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0600e-003	2.8700e-003	0.0423	2.0000e-005	6.7000e-004	5.0000e-005	7.2000e-004	1.9000e-004	5.0000e-005	2.4000e-004	0.0000	2.1460	2.1460	2.2000e-004	0.0000	2.1515
Total	9.6100e-003	0.0644	0.0548	1.5000e-004	3.1400e-003	1.9000e-004	3.3300e-003	8.7000e-004	1.9000e-004	1.0500e-003	0.0000	15.3856	15.3856	1.6300e-003	0.0000	15.4262

Campo Wind Facilities Construction Unmitigated HRA - San Diego County, Annual

3.9 Operations and maintenance facility - 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	4.0000e-005	1.7100e-003	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3678	0.3678	4.0000e-005	0.0000	0.3687
Vendor	1.2500e-003	0.0369	9.8200e-003	9.0000e-005	2.2500e-003	1.9000e-004	2.4400e-003	6.5000e-004	1.8000e-004	8.3000e-004	0.0000	8.8075	8.8075	6.6000e-004	0.0000	8.8239
Worker	9.4700e-003	3.3700e-003	0.0497	3.0000e-005	7.8000e-004	6.0000e-005	8.4000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5200	2.5200	2.5000e-004	0.0000	2.5263
Total	0.0108	0.0420	0.0599	1.2000e-004	3.1000e-003	2.5000e-004	3.3500e-003	8.9000e-004	2.4000e-004	1.1300e-003	0.0000	11.6952	11.6952	9.5000e-004	0.0000	11.7190

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3.9 Operations and maintenance facility - 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	0.1024	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

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	4.0000e-005	1.7100e-003	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3678	0.3678	4.0000e-005	0.0000	0.3687
Vendor	1.2500e-003	0.0369	9.8200e-003	9.0000e-005	2.2500e-003	1.9000e-004	2.4400e-003	6.5000e-004	1.8000e-004	8.3000e-004	0.0000	8.8075	8.8075	6.6000e-004	0.0000	8.8239
Worker	9.4700e-003	3.3700e-003	0.0497	3.0000e-005	7.8000e-004	6.0000e-005	8.4000e-004	2.2000e-004	6.0000e-005	2.8000e-004	0.0000	2.5200	2.5200	2.5000e-004	0.0000	2.5263
Total	0.0108	0.0420	0.0599	1.2000e-004	3.1000e-003	2.5000e-004	3.3500e-003	8.9000e-004	2.4000e-004	1.1300e-003	0.0000	11.6952	11.6952	9.5000e-004	0.0000	11.7190

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3.10 Construction of collector substation - 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	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388
Total	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4762	196.4762	0.0305	0.0000	197.2388

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	3.0000e-004	0.0118	2.4000e-003	3.0000e-005	4.7000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.5376	2.5376	2.7000e-004	0.0000	2.5443
Vendor	6.7000e-004	0.0196	5.2300e-003	5.0000e-005	1.2000e-003	1.0000e-004	1.3000e-003	3.5000e-004	1.0000e-004	4.4000e-004	0.0000	4.6879	4.6879	3.5000e-004	0.0000	4.6966
Worker	2.6900e-003	9.6000e-004	0.0141	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7153	0.7153	7.0000e-005	0.0000	0.7172
Total	3.6600e-003	0.0324	0.0217	9.0000e-005	1.8900e-003	1.5000e-004	2.0400e-003	5.4000e-004	1.5000e-004	6.8000e-004	0.0000	7.9408	7.9408	6.9000e-004	0.0000	7.9581

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3.10 Construction of collector substation - 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	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385
Total	0.1746	1.4365	1.3742	2.3100e-003		0.0806	0.0806		0.0782	0.0782	0.0000	196.4760	196.4760	0.0305	0.0000	197.2385

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	3.0000e-004	0.0118	2.4000e-003	3.0000e-005	4.7000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	2.5376	2.5376	2.7000e-004	0.0000	2.5443
Vendor	6.7000e-004	0.0196	5.2300e-003	5.0000e-005	1.2000e-003	1.0000e-004	1.3000e-003	3.5000e-004	1.0000e-004	4.4000e-004	0.0000	4.6879	4.6879	3.5000e-004	0.0000	4.6966
Worker	2.6900e-003	9.6000e-004	0.0141	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7153	0.7153	7.0000e-005	0.0000	0.7172
Total	3.6600e-003	0.0324	0.0217	9.0000e-005	1.8900e-003	1.5000e-004	2.0400e-003	5.4000e-004	1.5000e-004	6.8000e-004	0.0000	7.9408	7.9408	6.9000e-004	0.0000	7.9581

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3.11 Meteorological 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	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0736	0.0736	1.0000e-005	0.0000	0.0738
Vendor	2.0000e-004	5.9500e-003	1.5800e-003	1.0000e-005	3.6000e-004	3.0000e-005	3.9000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.4206	1.4206	1.1000e-004	0.0000	1.4232
Worker	3.1000e-004	1.1000e-004	1.6000e-003	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0813	0.0813	1.0000e-005	0.0000	0.0815
Total	5.2000e-004	6.4000e-003	3.2500e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5754	1.5754	1.3000e-004	0.0000	1.5785

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3.11 Meteorological 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	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

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	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0736	0.0736	1.0000e-005	0.0000	0.0738
Vendor	2.0000e-004	5.9500e-003	1.5800e-003	1.0000e-005	3.6000e-004	3.0000e-005	3.9000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.4206	1.4206	1.1000e-004	0.0000	1.4232
Worker	3.1000e-004	1.1000e-004	1.6000e-003	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0813	0.0813	1.0000e-005	0.0000	0.0815
Total	5.2000e-004	6.4000e-003	3.2500e-003	1.0000e-005	4.0000e-004	3.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.5754	1.5754	1.3000e-004	0.0000	1.5785

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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

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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

[illegible]

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5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

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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	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	0.1250	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	0.1250	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	0.0000					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	0.1250	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	0.0000					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	0.1250	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**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE/RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	562526.4	3622922	NonCancer	2.86E-05	2.86E-05	3.77E-05	0.00E+00	0.00E+00	2.86E-05	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
2	ALL	562676.8	3622718	NonCancer	3.97E-05	3.97E-05	5.24E-05	0.00E+00	0.00E+00	3.97E-05	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
3	ALL	563011.1	3622513	NonCancer	3.46E-05	3.46E-05	4.57E-05	0.00E+00	0.00E+00	3.46E-05	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
4	ALL	563029.7	3622879	NonCancer	4.92E-05	4.92E-05	6.50E-05	0.00E+00	0.00E+00	4.92E-05	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
5	ALL	562994.4	3622153	NonCancer	4.99E-05	4.99E-05	6.58E-05	0.00E+00	0.00E+00	4.99E-05	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
6	ALL	563074.2	3619994	NonCancer	5.79E-05	5.79E-05	7.65E-05	0.00E+00	0.00E+00	5.79E-05	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
7	ALL	564649.8	3618755	NonCancer	8.28E-05	8.28E-05	1.09E-04	0.00E+00	0.00E+00	8.28E-05	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
8	ALL	565274	3618506	NonCancer	5.68E-05	5.68E-05	7.49E-05	0.00E+00	0.00E+00	5.68E-05	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
9	ALL	564668.6	3618324	NonCancer	8.55E-05	8.55E-05	1.13E-04	0.00E+00	0.00E+00	8.55E-05	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
10	ALL	564915.6	3618223	NonCancer	5.97E-05	5.97E-05	7.88E-05	0.00E+00	0.00E+00	5.97E-05	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
11	ALL	565167.9	3618088	NonCancer	5.05E-05	5.05E-05	6.67E-05	0.00E+00	0.00E+00	5.05E-05	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
12	ALL	565310.2	3618062	NonCancer	4.76E-05	4.76E-05	6.28E-05	0.00E+00	0.00E+00	4.76E-05	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05
13	ALL	564753.1	3618020	NonCancer	7.60E-05	7.60E-05	1.00E-04	0.00E+00	0.00E+00	7.60E-05	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
14	ALL	564687.4	3617912	NonCancer	7.25E-05	7.25E-05	9.58E-05	0.00E+00	0.00E+00	7.25E-05	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
15	ALL	564895.4	3617819	NonCancer	6.78E-05	6.78E-05	8.95E-05	0.00E+00	0.00E+00	6.78E-05	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
16	ALL	564753.7	3617774	NonCancer	5.74E-05	5.74E-05	7.59E-05	0.00E+00	0.00E+00	5.74E-05	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
17	ALL	565102.6	3616583	NonCancer	5.42E-05	5.42E-05	7.16E-05	0.00E+00	0.00E+00	5.42E-05	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
18	ALL	564942	3616644	NonCancer	5.77E-05	5.77E-05	7.62E-05	0.00E+00	0.00E+00	5.77E-05	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
19	ALL	564931.4	3616752	NonCancer	5.81E-05	5.81E-05	7.67E-05	0.00E+00	0.00E+00	5.81E-05	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
20	ALL	564564.5	3616569	NonCancer	5.92E-05	5.92E-05	7.82E-05	0.00E+00	0.00E+00	5.92E-05	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
21	ALL	564664	3616542	NonCancer	5.58E-05	5.58E-05	7.36E-05	0.00E+00	0.00E+00	5.58E-05	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
22	ALL	564432.8	3616542	NonCancer	6.02E-05	6.02E-05	7.95E-05	0.00E+00	0.00E+00	6.02E-05	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
23	ALL	563387.5	3616999	NonCancer	8.07E-05	8.07E-05	1.07E-04	0.00E+00	0.00E+00	8.07E-05	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
24	ALL	563525.2	3616610	NonCancer	1.02E-04	1.02E-04	1.35E-04	0.00E+00	0.00E+00	1.02E-04	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
25	ALL	563134.8	3616687	NonCancer	5.23E-05	5.23E-05	6.91E-05	0.00E+00	0.00E+00	5.23E-05	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
26	ALL	563339.7	3616758	NonCancer	6.91E-05	6.91E-05	9.13E-05	0.00E+00	0.00E+00	6.91E-05	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
27	ALL	563753.8	3616971	NonCancer	1.28E-04	1.28E-04	1.70E-04	0.00E+00	0.00E+00	1.28E-04	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
28	ALL	563585.2	3616424	NonCancer	8.75E-05	8.75E-05	1.16E-04	0.00E+00	0.00E+00	8.75E-05	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
29	ALL	562975.6	3616672	NonCancer	4.95E-05	4.95E-05	6.53E-05	0.00E+00	0.00E+00	4.95E-05	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
30	ALL	563158	3616514	NonCancer	5.93E-05	5.93E-05	7.83E-05	0.00E+00	0.00E+00	5.93E-05	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05
31	ALL	563083.3	3616508	NonCancer	5.57E-05	5.57E-05	7.35E-05	0.00E+00	0.00E+00	5.57E-05	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
32	ALL	563012.4	3616476	NonCancer	5.71E-05	5.71E-05	7.54E-05	0.00E+00	0.00E+00	5.71E-05	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
33	ALL	562997.9	3616412	NonCancer	5.96E-05	5.96E-05	7.87E-05	0.00E+00	0.00E+00	5.96E-05	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
34	ALL	562978.5	3616317	NonCancer	6.41E-05	6.41E-05	8.47E-05	0.00E+00	0.00E+00	6.41E-05	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
35	ALL	563178.4	3616326	NonCancer	6.47E-05	6.47E-05	8.55E-05	0.00E+00	0.00E+00	6.47E-05	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
36	ALL	562915.4	3616311	NonCancer	6.40E-05	6.40E-05	8.45E-05	0.00E+00	0.00E+00	6.40E-05	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
37	ALL	563072.6	3616217	NonCancer	6.48E-05	6.48E-05	8.55E-05	0.00E+00	0.00E+00	6.48E-05	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
38	ALL	562805.8	3616479	NonCancer	4.93E-05	4.93E-05	6.51E-05	0.00E+00	0.00E+00	4.93E-05	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
39	ALL	562786.4	3616406	NonCancer	5.46E-05	5.46E-05	7.21E-05	0.00E+00	0.00E+00	5.46E-05	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
40	ALL	562721.4	3616347	NonCancer	6.05E-05	6.05E-05	7.98E-05	0.00E+00	0.00E+00	6.05E-05	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-05
41	ALL	562650.5	3617499	NonCancer	8.63E-05	8.63E-05	1.14E-04	0.00E+00	0.00E+00	8.63E-05	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
42	ALL	562077	3616996	NonCancer	7.83E-05	7.83E-05	1.03E-04	0.00E+00	0.00E+00	7.83E-05	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
43	ALL	562127	3616996	NonCancer	8.02E-05	8.02E-05	1.06E-04	0.00E+00	0.00E+00	8.02E-05	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
44	ALL	562227	3617021	NonCancer	8.45E-05	8.45E-05	1.12E-04	0.00E+00	0.00E+00	8.45E-05	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
45	ALL	562427	3617021	NonCancer	7.40E-05	7.40E-05	9.78E-05	0.00E+00	0.00E+00	7.40E-05	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
46	ALL	562427	3617046	NonCancer	7.45E-05	7.45E-05	9.84E-05	0.00E+00	0.00E+00	7.45E-05	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
47	ALL	562452	3617046	NonCancer	7.51E-05	7.51E-05	9.92E-05	0.00E+00	0.00E+00	7.51E-05	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05
48	ALL	562177	3617071	NonCancer	8.66E-05	8.66E-05	1.14E-04	0.00E+00	0.00E+00	8.66E-05	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
49	ALL	562252	3617071	NonCancer	8.52E-05	8.52E-05	1.12E-04	0.00E+00	0.00E+00	8.52E-05	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
50	ALL	562427	3617071	NonCancer	7.49E-05	7.49E-05	9.90E-05	0.00E+00	0.00E+00	7.49E-05	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
51	ALL	562227	3617096	NonCancer	8.82E-05	8.82E-05	1.16E-04	0.00E+00	0.00E+00	8.82E-05	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
52	ALL	562427	3617096	NonCancer	7.55E-05	7.55E-05	9.97E-05	0.00E+00	0.00E+00	7.55E-05	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-05
53	ALL	562502	3617096	NonCancer	7.77E-05	7.77												

100	ALL	562527	3617321 NonCancer	1.04E-04	1.04E-04	1.37E-04	0.00E+00	0.00E+00	1.04E-04	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
101	ALL	562552	3617321 NonCancer	1.06E-04	1.06E-04	1.40E-04	0.00E+00	0.00E+00	1.06E-04	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	
102	ALL	562227	3617346 NonCancer	1.17E-04	1.17E-04	1.54E-04	0.00E+00	0.00E+00	1.17E-04	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	
103	ALL	562477	3617346 NonCancer	1.14E-04	1.14E-04	1.50E-04	0.00E+00	0.00E+00	1.14E-04	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	
104	ALL	562502	3617346 NonCancer	1.16E-04	1.16E-04	1.53E-04	0.00E+00	0.00E+00	1.16E-04	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	
105	ALL	562402	3617371 NonCancer	1.16E-04	1.16E-04	1.53E-04	0.00E+00	0.00E+00	1.16E-04	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	
106	ALL	562502	3617371 NonCancer	1.24E-04	1.24E-04	1.64E-04	0.00E+00	0.00E+00	1.24E-04	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	
107	ALL	561789.9	3617208 NonCancer	8.58E-05	8.58E-05	1.13E-04	0.00E+00	0.00E+00	8.58E-05	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	
108	ALL	561800.6	3617014 NonCancer	8.74E-05	8.74E-05	1.15E-04	0.00E+00	0.00E+00	8.74E-05	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	
109	ALL	561861.6	3617005 NonCancer	8.93E-05	8.93E-05	1.18E-04	0.00E+00	0.00E+00	8.93E-05	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	
110	ALL	561406.2	3617449 NonCancer	1.05E-04	1.05E-04	1.39E-04	0.00E+00	0.00E+00	1.05E-04	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	
111	ALL	560619.1	3617643 NonCancer	1.14E-04	1.14E-04	1.50E-04	0.00E+00	0.00E+00	1.14E-04	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	
112	ALL	560410.3	3617967 NonCancer	6.93E-05	6.93E-05	9.15E-05	0.00E+00	0.00E+00	6.93E-05	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	
113	ALL	560323.2	3617887 NonCancer	8.47E-05	8.47E-05	1.12E-04	0.00E+00	0.00E+00	8.47E-05	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	
114	ALL	559676.9	3617557 NonCancer	6.28E-05	6.28E-05	8.30E-05	0.00E+00	0.00E+00	6.28E-05	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	
115	ALL	559716.2	3617484 NonCancer	6.61E-05	6.61E-05	8.73E-05	0.00E+00	0.00E+00	6.61E-05	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	
116	ALL	559685.4	3618739 NonCancer	7.65E-05	7.65E-05	1.01E-04	0.00E+00	0.00E+00	7.65E-05	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	
117	ALL	559662.2	3618710 NonCancer	7.26E-05	7.26E-05	9.59E-05	0.00E+00	0.00E+00	7.26E-05	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	
118	ALL	559644	3618755 NonCancer	7.58E-05	7.58E-05	1.00E-04	0.00E+00	0.00E+00	7.58E-05	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	
119	ALL	559492.5	3618495 NonCancer	6.43E-05	6.43E-05	8.49E-05	0.00E+00	0.00E+00	6.43E-05	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	
120	ALL	559552.1	3618466 NonCancer	6.23E-05	6.23E-05	8.22E-05	0.00E+00	0.00E+00	6.23E-05	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05	
121	ALL	559266	3618270 NonCancer	5.33E-05	5.33E-05	7.03E-05	0.00E+00	0.00E+00	5.33E-05	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	
122	ALL	559270.9	3618358 NonCancer	5.14E-05	5.14E-05	6.79E-05	0.00E+00	0.00E+00	5.14E-05	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05	
123	ALL	559528.3	3618071 NonCancer	6.40E-05	6.40E-05	8.45E-05	0.00E+00	0.00E+00	6.40E-05	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	
124	ALL	559729.6	3617998 NonCancer	6.82E-05	6.82E-05	9.00E-05	0.00E+00	0.00E+00	6.82E-05	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	
125	ALL	559907.1	3619726 NonCancer	1.17E-04	1.17E-04	1.54E-04	0.00E+00	0.00E+00	1.17E-04	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	
126	ALL	560055.5	3619585 NonCancer	7.82E-05	7.82E-05	1.03E-04	0.00E+00	0.00E+00	7.82E-05	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	
127	ALL	559975	3619544 NonCancer	8.54E-05	8.54E-05	1.13E-04	0.00E+00	0.00E+00	8.54E-05	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	
128	ALL	559699.2	3620732 NonCancer	5.09E-05	5.09E-05	6.72E-05	0.00E+00	0.00E+00	5.09E-05	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	
129	ALL	559569.9	3621314 NonCancer	4.08E-05	4.08E-05	5.39E-05	0.00E+00	0.00E+00	4.08E-05	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	
130	ALL	559424.8	3621633 NonCancer	4.80E-05	4.80E-05	6.34E-05	0.00E+00	0.00E+00	4.80E-05	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	
131	ALL	559622.4	3621590 NonCancer	4.81E-05	4.81E-05	6.35E-05	0.00E+00	0.00E+00	4.81E-05	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05	
132	ALL	559597.3	3621541 NonCancer	4.89E-05	4.89E-05	6.46E-05	0.00E+00	0.00E+00	4.89E-05	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	
133	ALL	559477.7	3621971 NonCancer	4.89E-05	4.89E-05	6.46E-05	0.00E+00	0.00E+00	4.89E-05	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	
134	ALL	559561.2	3622131 NonCancer	6.48E-05	6.48E-05	8.56E-05	0.00E+00	0.00E+00	6.48E-05	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	
135	ALL	559517.5	3621773 NonCancer	4.26E-05	4.26E-05	5.63E-05	0.00E+00	0.00E+00	4.26E-05	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	
136	ALL	559961.2	3622071 NonCancer	5.81E-05	5.81E-05	7.68E-05	0.00E+00	0.00E+00	5.81E-05	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-05	
137	ALL	560050.6	3622042 NonCancer	5.57E-05	5.57E-05	7.36E-05	0.00E+00	0.00E+00	5.57E-05	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	
138	ALL	560421.5	3622723 NonCancer	4.64E-05	4.64E-05	6.13E-05	0.00E+00	0.00E+00	4.64E-05	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	
139	ALL	559677.8	3622355 NonCancer	4.82E-05	4.82E-05	6.37E-05	0.00E+00	0.00E+00	4.82E-05	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	
140	ALL	560962.3	3622761 NonCancer	3.97E-05	3.97E-05	5.24E-05	0.00E+00	0.00E+00	3.97E-05	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	
141	ALL	560827	3621581 NonCancer	4.38E-05	4.38E-05	5.79E-05	0.00E+00	0.00E+00	4.38E-05	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	
142	ALL	560754.8	3622637 NonCancer	4.60E-05	4.60E-05	6.08E-05	0.00E+00	0.00E+00	4.60E-05	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	
143	ALL	561738.6	3622472 NonCancer	3.21E-05	3.21E-05	4.24E-05	0.00E+00	0.00E+00	3.21E-05	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	
144	ALL	561372.5	3622198 NonCancer	3.55E-05	3.55E-05	4.69E-05	0.00E+00	0.00E+00	3.55E-05	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	
145	ALL	561270.6	3622145 NonCancer	3.64E-05	3.64E-05	4.81E-05	0.00E+00	0.00E+00	3.64E-05	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	
146	ALL	561371.4	3622093 NonCancer	3.65E-05	3.65E-05	4.82E-05	0.00E+00	0.00E+00	3.65E-05	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	
147	ALL	561382	3622072 NonCancer	3.60E-05	3.60E-05	4.76E-05	0.00E+00	0.00E+00	3.60E-05	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	
148	ALL	560036.1	3616936 NonCancer	1.12E-04	1.12E-04	1.48E-04	0.00E+00	0.00E+00	1.12E-04	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	
149	ALL	560506.8	3615411 NonCancer	1.16E-04	1.16E-04	1.53E-04	0.00E+00	0.00E+00	1.16E-04	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	
150	ALL	560439.3	3615721 NonCancer	1.06E-04	1.06E-04	1.39E-04	0.00E+00	0.00E+00	1.06E-04	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	
151	ALL	559940.2	3615518 NonCancer	9.24E-05	9.24E-05	1.22E-04	0.00E+00	0.00E+00	9.24E-05	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	
152	ALL	560005.3	3615124 NonCancer	1.06E-04	1.06E-04	1.40E-04	0.00E+00	0.00E+00	1.06E-04	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	
153	ALL	559732.4	3615117 NonCancer	7.58E-05	7.58E-05	1.00E-04	0.00E+00	0.00E+00	7.58E-05	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	

201	ALL	558054.3	3612587	NonCancer	8.12E-05	8.12E-05	1.07E-04	0.00E+00	0.00E+00	8.12E-05	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
202	ALL	557738.2	3612045	NonCancer	5.48E-05	5.48E-05	7.23E-05	0.00E+00	0.00E+00	5.48E-05	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
203	ALL	557818.9	3611956	NonCancer	5.39E-05	5.39E-05	7.12E-05	0.00E+00	0.00E+00	5.39E-05	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
204	ALL	558001.9	3611568	NonCancer	6.09E-05	6.09E-05	8.04E-05	0.00E+00	0.00E+00	6.09E-05	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
205	ALL	558066.4	3611605	NonCancer	6.27E-05	6.27E-05	8.27E-05	0.00E+00	0.00E+00	6.27E-05	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
206	ALL	558118.9	3611823	NonCancer	5.86E-05	5.86E-05	7.74E-05	0.00E+00	0.00E+00	5.86E-05	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
207	ALL	558303.2	3611500	NonCancer	7.53E-05	7.53E-05	9.95E-05	0.00E+00	0.00E+00	7.53E-05	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
208	ALL	557572.7	3611569	NonCancer	5.08E-05	5.08E-05	6.71E-05	0.00E+00	0.00E+00	5.08E-05	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
209	ALL	557615.3	3611365	NonCancer	6.02E-05	6.02E-05	7.95E-05	0.00E+00	0.00E+00	6.02E-05	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
210	ALL	555468.9	3610394	NonCancer	4.85E-05	4.85E-05	6.40E-05	0.00E+00	0.00E+00	4.85E-05	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
211	ALL	554950.9	3610471	NonCancer	4.61E-05	4.61E-05	6.09E-05	0.00E+00	0.00E+00	4.61E-05	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
212	ALL	555257.4	3610320	NonCancer	4.57E-05	4.57E-05	6.04E-05	0.00E+00	0.00E+00	4.57E-05	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
213	ALL	555624.5	3609956	NonCancer	5.67E-05	5.67E-05	7.48E-05	0.00E+00	0.00E+00	5.67E-05	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
214	ALL	555470.1	3609843	NonCancer	4.71E-05	4.71E-05	6.22E-05	0.00E+00	0.00E+00	4.71E-05	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
215	ALL	555364.9	3609917	NonCancer	5.12E-05	5.12E-05	6.76E-05	0.00E+00	0.00E+00	5.12E-05	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
216	ALL	555154.5	3609987	NonCancer	4.95E-05	4.95E-05	6.54E-05	0.00E+00	0.00E+00	4.95E-05	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
217	ALL	555247.1	3609845	NonCancer	4.24E-05	4.24E-05	5.61E-05	0.00E+00	0.00E+00	4.24E-05	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
218	ALL	555260.7	3610043	NonCancer	5.27E-05	5.27E-05	6.96E-05	0.00E+00	0.00E+00	5.27E-05	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
219	ALL	555091.6	3610153	NonCancer	4.93E-05	4.93E-05	6.51E-05	0.00E+00	0.00E+00	4.93E-05	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
220	ALL	554916.6	3610082	NonCancer	4.89E-05	4.89E-05	6.46E-05	0.00E+00	0.00E+00	4.89E-05	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
221	ALL	555139.6	3610385	NonCancer	4.58E-05	4.58E-05	6.04E-05	0.00E+00	0.00E+00	4.58E-05	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
222	ALL	555452.9	3610269	NonCancer	4.60E-05	4.60E-05	6.08E-05	0.00E+00	0.00E+00	4.60E-05	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
223	ALL	554813.7	3610285	NonCancer	4.63E-05	4.63E-05	6.11E-05	0.00E+00	0.00E+00	4.63E-05	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
224	ALL	554775.9	3610128	NonCancer	4.80E-05	4.80E-05	6.34E-05	0.00E+00	0.00E+00	4.80E-05	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
225	ALL	554846.8	3609863	NonCancer	3.83E-05	3.83E-05	5.05E-05	0.00E+00	0.00E+00	3.83E-05	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
226	ALL	554557.5	3610491	NonCancer	4.48E-05	4.48E-05	5.92E-05	0.00E+00	0.00E+00	4.48E-05	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
227	ALL	554655.7	3610353	NonCancer	4.53E-05	4.53E-05	5.98E-05	0.00E+00	0.00E+00	4.53E-05	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
228	ALL	555351.7	3610215	NonCancer	4.69E-05	4.69E-05	6.20E-05	0.00E+00	0.00E+00	4.69E-05	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
229	ALL	554981	3609668	NonCancer	4.27E-05	4.27E-05	5.64E-05	0.00E+00	0.00E+00	4.27E-05	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
230	ALL	554865.7	3609823	NonCancer	3.96E-05	3.96E-05	5.24E-05	0.00E+00	0.00E+00	3.96E-05	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
231	ALL	554765.3	3609682	NonCancer	4.11E-05	4.11E-05	5.43E-05	0.00E+00	0.00E+00	4.11E-05	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
232	ALL	554824.3	3609762	NonCancer	4.08E-05	4.08E-05	5.39E-05	0.00E+00	0.00E+00	4.08E-05	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
233	ALL	554820	3609597	NonCancer	4.11E-05	4.11E-05	5.43E-05	0.00E+00	0.00E+00	4.11E-05	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
234	ALL	559621.5	3610116	NonCancer	1.59E-04	1.59E-04	2.09E-04	0.00E+00	0.00E+00	1.59E-04	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
235	ALL	561411.5	3613631	NonCancer	4.60E-05	4.60E-05	6.07E-05	0.00E+00	0.00E+00	4.60E-05	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
236	ALL	561858.4	3613809	NonCancer	3.75E-05	3.75E-05	4.95E-05	0.00E+00	0.00E+00	3.75E-05	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
237	ALL	562026.7	3613592	NonCancer	3.73E-05	3.73E-05	4.92E-05	0.00E+00	0.00E+00	3.73E-05	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
238	ALL	561867.8	3614172	NonCancer	4.32E-05	4.32E-05	5.71E-05	0.00E+00	0.00E+00	4.32E-05	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
239	ALL	562931.3	3614214	NonCancer	3.88E-05	3.88E-05	5.13E-05	0.00E+00	0.00E+00	3.88E-05	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
240	ALL	563045.6	3613939	NonCancer	3.69E-05	3.69E-05	4.87E-05	0.00E+00	0.00E+00	3.69E-05	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
241	ALL	563217.8	3613486	NonCancer	3.23E-05	3.23E-05	4.27E-05	0.00E+00	0.00E+00	3.23E-05	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
242	ALL	562687.5	3613941	NonCancer	3.87E-05	3.87E-05	5.11E-05	0.00E+00	0.00E+00	3.87E-05	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
243	ALL	562649.8	3613906	NonCancer	3.85E-05	3.85E-05	5.08E-05	0.00E+00	0.00E+00	3.85E-05	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
244	ALL	562723.9	3613915	NonCancer	3.84E-05	3.84E-05	5.07E-05	0.00E+00	0.00E+00	3.84E-05	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
245	ALL	562804.6	3613654	NonCancer	3.65E-05	3.65E-05	4.82E-05	0.00E+00	0.00E+00	3.65E-05	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
246	ALL	562820.8	3613739	NonCancer	3.57E-05	3.57E-05	4.72E-05	0.00E+00	0.00E+00	3.57E-05	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
247	ALL	562904.2	3613751	NonCancer	3.60E-05	3.60E-05	4.76E-05	0.00E+00	0.00E+00	3.60E-05	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
248	ALL	562710.4	3613463	NonCancer	3.72E-05	3.72E-05	4.91E-05	0.00E+00	0.00E+00	3.72E-05	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
249	ALL	562858.5	3613385	NonCancer	3.51E-05	3.51E-05	4.63E-05	0.00E+00	0.00E+00	3.51E-05	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
250	ALL	567006.8	3612625	NonCancer	3.89E-05	3.89E-05	5.11E-04	0.00E+00	0.00E+00	3.89E-05	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
251	ALL	569014.3	3612480	NonCancer	6.55E-05	6.55E-05	8.65E-05</												

io_Acute_MitHRInput.hra

HARP2 - HRACalc (dated 17023) 6/26/2019 11:25:27 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

Campo_Acute_MitOutput

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_MIT\hra\Campo_Acute_MitNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_MIT\hra\Campo_Acute_MitNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE/RESP	SKIN	EYE	BONE/TEETENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	562526.4	3622922	NonCancer	2.86E-05	2.86E-05	3.77E-05	0.00E+00	0.00E+00	2.86E-05	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
2	ALL	562676.8	3622718	NonCancer	3.97E-05	3.97E-05	5.24E-05	0.00E+00	0.00E+00	3.97E-05	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
3	ALL	563011.1	3622513	NonCancer	3.46E-05	3.46E-05	4.57E-05	0.00E+00	0.00E+00	3.46E-05	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
4	ALL	563029.7	3622879	NonCancer	4.92E-05	4.92E-05	6.50E-05	0.00E+00	0.00E+00	4.92E-05	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
5	ALL	562994.4	3622153	NonCancer	4.99E-05	4.99E-05	6.58E-05	0.00E+00	0.00E+00	4.99E-05	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
6	ALL	563074.2	3619994	NonCancer	5.79E-05	5.79E-05	7.65E-05	0.00E+00	0.00E+00	5.79E-05	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
7	ALL	564649.8	3618755	NonCancer	8.28E-05	8.28E-05	1.09E-04	0.00E+00	0.00E+00	8.28E-05	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
8	ALL	565274	3618506	NonCancer	5.68E-05	5.68E-05	7.49E-05	0.00E+00	0.00E+00	5.68E-05	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
9	ALL	564668.6	3618324	NonCancer	8.55E-05	8.55E-05	1.13E-04	0.00E+00	0.00E+00	8.55E-05	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
10	ALL	564915.6	3618223	NonCancer	5.97E-05	5.97E-05	7.88E-05	0.00E+00	0.00E+00	5.97E-05	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
11	ALL	565167.9	3618088	NonCancer	5.05E-05	5.05E-05	6.67E-05	0.00E+00	0.00E+00	5.05E-05	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
12	ALL	565310.2	3618062	NonCancer	4.76E-05	4.76E-05	6.28E-05	0.00E+00	0.00E+00	4.76E-05	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05
13	ALL	564753.1	3618020	NonCancer	7.60E-05	7.60E-05	1.00E-04	0.00E+00	0.00E+00	7.60E-05	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
14	ALL	564687.4	3617912	NonCancer	7.25E-05	7.25E-05	9.58E-05	0.00E+00	0.00E+00	7.25E-05	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
15	ALL	564895.4	3617819	NonCancer	6.78E-05	6.78E-05	8.95E-05	0.00E+00	0.00E+00	6.78E-05	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
16	ALL	564753.7	3617774	NonCancer	5.74E-05	5.74E-05	7.59E-05	0.00E+00	0.00E+00	5.74E-05	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-05
17	ALL	565102.6	3616583	NonCancer	5.42E-05	5.42E-05	7.16E-05	0.00E+00	0.00E+00	5.42E-05	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
18	ALL	564942	3616644	NonCancer	5.77E-05	5.77E-05	7.62E-05	0.00E+00	0.00E+00	5.77E-05	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
19	ALL	564931.4	3616752	NonCancer	5.81E-05	5.81E-05	7.67E-05	0.00E+00	0.00E+00	5.81E-05	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
20	ALL	564564.5	3616569	NonCancer	5.92E-05	5.92E-05	7.82E-05	0.00E+00	0.00E+00	5.92E-05	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
21	ALL	564664	3616542	NonCancer	5.58E-05	5.58E-05	7.36E-05	0.00E+00	0.00E+00	5.58E-05	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
22	ALL	564432.8	3616542	NonCancer	6.02E-05	6.02E-05	7.95E-05	0.00E+00	0.00E+00	6.02E-05	2.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
23	ALL	563387.5	3616999	NonCancer	8.07E-05	8.07E-05	1.07E-04	0.00E+00	0.00E+00	8.07E-05	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
24	ALL	563525.2	3616610	NonCancer	1.02E-04	1.02E-04	1.35E-04	0.00E+00	0.00E+00	1.02E-04	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
25	ALL	563134.8	3616687	NonCancer	5.23E-05	5.23E-05	6.91E-05	0.00E+00	0.00E+00	5.23E-05	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
26	ALL	563339.7	3616758	NonCancer	6.91E-05	6.91E-05	9.13E-05	0.00E+00	0.00E+00	6.91E-05	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
27	ALL	563753.8	3616971	NonCancer	1.28E-04	1.28E-04	1.70E-04	0.00E+00	0.00E+00	1.28E-04	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
28	ALL	563585.2	3616424	NonCancer	8.75E-05	8.75E-05	1.16E-04	0.00E+00	0.00E+00	8.75E-05	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
29	ALL	562975.6	3616672	NonCancer	4.95E-05	4.95E-05	6.53E-05	0.00E+00	0.00E+00	4.95E-05	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
30	ALL	563158	3616514	NonCancer	5.93E-05	5.93E-05	7.83E-05	0.00E+00	0.00E+00	5.93E-05	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05
31	ALL	563083.3	3616508	NonCancer	5.57E-05	5.57E-05	7.35E-05	0.00E+00	0.00E+00	5.57E-05	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
32	ALL	563012.4	3616476	NonCancer	5.71E-05	5.71E-05	7.54E-05	0.00E+00	0.00E+00	5.71E-05	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
33	ALL	562997.9	3616412	NonCancer	5.96E-05	5.96E-05	7.87E-05	0.00E+00	0.00E+00	5.96E-05	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
34	ALL	562978.5	3616317	NonCancer	6.41E-05	6.41E-05	8.47E-05	0.00E+00	0.00E+00	6.41E-05	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
35	ALL	563178.4	3616326	NonCancer	6.47E-05	6.47E-05	8.55E-05	0.00E+00	0.00E+00	6.47E-05	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
36	ALL	562915.4	3616311	NonCancer	6.40E-05	6.40E-05	8.45E-05	0.00E+00	0.00E+00	6.40E-05	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
37	ALL	563072.6	3616217	NonCancer	6.48E-05	6.48E-05	8.55E-05	0.00E+00	0.00E+00	6.48E-05	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
38	ALL	562805.8	3616479	NonCancer	4.93E-05	4.93E-05	6.51E-05	0.00E+00	0.00E+00	4.93E-05	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
39	ALL	562786.4	3616406	NonCancer	5.46E-05	5.46E-05	7.21E-05	0.00E+00	0.00E+00	5.46E-05	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
40	ALL	562721.4	3616347	NonCancer	6.05E-05	6.05E-05	7.98E-05	0.00E+00	0.00E+00	6.05E-05	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-05
41	ALL	562650.5	3617499	NonCancer	8.63E-05	8.63E-05	1.14E-04	0.00E+00	0.00E+00	8.63E-05	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
42	ALL	562077	3616996	NonCancer	7.83E-05	7.83E-05	1.03E-04	0.00E+00	0.00E+00	7.83E-05	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
43	ALL	562127	3616996	NonCancer	8.02E-05	8.02E-05	1.06E-04	0.00E+00	0.00E+00	8.02E-05	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
44	ALL	562227	3617021	NonCancer	8.45E-05	8.45E-05	1.12E-04	0.00E+00	0.00E+00	8.45E-05	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
45	ALL	562427	3617021	NonCancer	7.40E-05	7.40E-05	9.78E-05	0.00E+00	0.00E+00	7.40E-05	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
46	ALL	562427	3617046	NonCancer	7.45E-05	7.45E-05	9.84E-05	0.00E+00	0.00E+00	7.45E-05	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
47	ALL	562452	3617046	NonCancer	7.51E-05	7.51E-05	9.92E-05	0.00E+00	0.00E+00	7.51E-05	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05
48	ALL	562177	3617071	NonCancer	8.66E-05	8.66E-05	1.14E-04	0.00E+00	0.00E+00	8.66E-05	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
49	ALL	562252	3617071	NonCancer	8.52E-05	8.52E-05	1.12E-04	0.00E+00	0.00E+00	8.52E-05	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
50	ALL	562427	3617071	NonCancer	7.49E-05	7.49E-05	9.90E-05	0.00E+00	0.00E+00	7.49E-05	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
51	ALL	562227	3617096	NonCancer	8.82E-05	8.82E-05	1.16E-04	0.00E+00	0.00E+00	8.82E-05	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
52	ALL	562427	3617096	NonCancer	7.55E-05	7.55E-05	9.97E-05	0.00E+00	0.00E+00	7.55E-05	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-05
53	ALL	562502	3617096	NonCancer	7.77E-05	7.7												

100	ALL	562527	3617321 NonCancer	1.04E-04	1.04E-04	1.37E-04	0.00E+00	0.00E+00	1.04E-04	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
101	ALL	562552	3617321 NonCancer	1.06E-04	1.06E-04	1.40E-04	0.00E+00	0.00E+00	1.06E-04	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	
102	ALL	562227	3617346 NonCancer	1.17E-04	1.17E-04	1.54E-04	0.00E+00	0.00E+00	1.17E-04	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	
103	ALL	562477	3617346 NonCancer	1.14E-04	1.14E-04	1.50E-04	0.00E+00	0.00E+00	1.14E-04	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	
104	ALL	562502	3617346 NonCancer	1.16E-04	1.16E-04	1.53E-04	0.00E+00	0.00E+00	1.16E-04	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	
105	ALL	562402	3617371 NonCancer	1.16E-04	1.16E-04	1.53E-04	0.00E+00	0.00E+00	1.16E-04	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	
106	ALL	562502	3617371 NonCancer	1.24E-04	1.24E-04	1.64E-04	0.00E+00	0.00E+00	1.24E-04	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	
107	ALL	561789.9	3617208 NonCancer	8.58E-05	8.58E-05	1.13E-04	0.00E+00	0.00E+00	8.58E-05	3.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	
108	ALL	561800.6	3617014 NonCancer	8.74E-05	8.74E-05	1.15E-04	0.00E+00	0.00E+00	8.74E-05	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	
109	ALL	561861.6	3617005 NonCancer	8.93E-05	8.93E-05	1.18E-04	0.00E+00	0.00E+00	8.93E-05	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	
110	ALL	561406.2	3617449 NonCancer	1.05E-04	1.05E-04	1.39E-04	0.00E+00	0.00E+00	1.05E-04	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	
111	ALL	560619.1	3617643 NonCancer	1.14E-04	1.14E-04	1.50E-04	0.00E+00	0.00E+00	1.14E-04	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	
112	ALL	560410.3	3617967 NonCancer	6.93E-05	6.93E-05	9.15E-05	0.00E+00	0.00E+00	6.93E-05	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	
113	ALL	560323.2	3617887 NonCancer	8.47E-05	8.47E-05	1.12E-04	0.00E+00	0.00E+00	8.47E-05	3.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	
114	ALL	559676.9	3617557 NonCancer	6.28E-05	6.28E-05	8.30E-05	0.00E+00	0.00E+00	6.28E-05	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	
115	ALL	559716.2	3617484 NonCancer	6.61E-05	6.61E-05	8.73E-05	0.00E+00	0.00E+00	6.61E-05	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	
116	ALL	559685.4	3618739 NonCancer	7.65E-05	7.65E-05	1.01E-04	0.00E+00	0.00E+00	7.65E-05	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	
117	ALL	559662.2	3618710 NonCancer	7.26E-05	7.26E-05	9.59E-05	0.00E+00	0.00E+00	7.26E-05	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	
118	ALL	559644	3618755 NonCancer	7.58E-05	7.58E-05	1.00E-04	0.00E+00	0.00E+00	7.58E-05	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	
119	ALL	559492.5	3618495 NonCancer	6.43E-05	6.43E-05	8.49E-05	0.00E+00	0.00E+00	6.43E-05	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	
120	ALL	559552.1	3618466 NonCancer	6.23E-05	6.23E-05	8.22E-05	0.00E+00	0.00E+00	6.23E-05	2.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05	
121	ALL	559266	3618270 NonCancer	5.33E-05	5.33E-05	7.03E-05	0.00E+00	0.00E+00	5.33E-05	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	
122	ALL	559270.9	3618358 NonCancer	5.14E-05	5.14E-05	6.79E-05	0.00E+00	0.00E+00	5.14E-05	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05	
123	ALL	559528.3	3618071 NonCancer	6.40E-05	6.40E-05	8.45E-05	0.00E+00	0.00E+00	6.40E-05	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	
124	ALL	559729.6	3617998 NonCancer	6.82E-05	6.82E-05	9.00E-05	0.00E+00	0.00E+00	6.82E-05	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	
125	ALL	559907.1	3619726 NonCancer	1.17E-04	1.17E-04	1.54E-04	0.00E+00	0.00E+00	1.17E-04	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	
126	ALL	560055.5	3619585 NonCancer	7.82E-05	7.82E-05	1.03E-04	0.00E+00	0.00E+00	7.82E-05	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	
127	ALL	559975	3619544 NonCancer	8.54E-05	8.54E-05	1.13E-04	0.00E+00	0.00E+00	8.54E-05	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	
128	ALL	559699.2	3620732 NonCancer	5.09E-05	5.09E-05	6.72E-05	0.00E+00	0.00E+00	5.09E-05	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	
129	ALL	559569.9	3621314 NonCancer	4.08E-05	4.08E-05	5.39E-05	0.00E+00	0.00E+00	4.08E-05	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	
130	ALL	559424.8	3621633 NonCancer	4.80E-05	4.80E-05	6.34E-05	0.00E+00	0.00E+00	4.80E-05	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	
131	ALL	559622.4	3621590 NonCancer	4.81E-05	4.81E-05	6.35E-05	0.00E+00	0.00E+00	4.81E-05	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05	
132	ALL	559597.3	3621541 NonCancer	4.89E-05	4.89E-05	6.46E-05	0.00E+00	0.00E+00	4.89E-05	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	
133	ALL	559477.7	3621971 NonCancer	4.89E-05	4.89E-05	6.46E-05	0.00E+00	0.00E+00	4.89E-05	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	
134	ALL	559561.2	3622131 NonCancer	6.48E-05	6.48E-05	8.56E-05	0.00E+00	0.00E+00	6.48E-05	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	
135	ALL	559517.5	3621773 NonCancer	4.26E-05	4.26E-05	5.63E-05	0.00E+00	0.00E+00	4.26E-05	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	
136	ALL	559961.2	3622071 NonCancer	5.81E-05	5.81E-05	7.68E-05	0.00E+00	0.00E+00	5.81E-05	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-05	
137	ALL	560050.6	3622042 NonCancer	5.57E-05	5.57E-05	7.36E-05	0.00E+00	0.00E+00	5.57E-05	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	
138	ALL	560421.5	3622723 NonCancer	4.64E-05	4.64E-05	6.13E-05	0.00E+00	0.00E+00	4.64E-05	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	
139	ALL	559677.8	3622355 NonCancer	4.82E-05	4.82E-05	6.37E-05	0.00E+00	0.00E+00	4.82E-05	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	
140	ALL	560962.3	3622761 NonCancer	3.97E-05	3.97E-05	5.24E-05	0.00E+00	0.00E+00	3.97E-05	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	
141	ALL	560827	3621581 NonCancer	4.38E-05	4.38E-05	5.79E-05	0.00E+00	0.00E+00	4.38E-05	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	
142	ALL	560754.8	3622637 NonCancer	4.60E-05	4.60E-05	6.08E-05	0.00E+00	0.00E+00	4.60E-05	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	
143	ALL	561738.6	3622472 NonCancer	3.21E-05	3.21E-05	4.24E-05	0.00E+00	0.00E+00	3.21E-05	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	
144	ALL	561372.5	3622198 NonCancer	3.55E-05	3.55E-05	4.69E-05	0.00E+00	0.00E+00	3.55E-05	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	
145	ALL	561270.6	3622145 NonCancer	3.64E-05	3.64E-05	4.81E-05	0.00E+00	0.00E+00	3.64E-05	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	
146	ALL	561371.4	3622093 NonCancer	3.65E-05	3.65E-05	4.82E-05	0.00E+00	0.00E+00	3.65E-05	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	
147	ALL	561382	3622072 NonCancer	3.60E-05	3.60E-05	4.76E-05	0.00E+00	0.00E+00	3.60E-05	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	
148	ALL	560036.1	3616936 NonCancer	1.12E-04	1.12E-04	1.48E-04	0.00E+00	0.00E+00	1.12E-04	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	
149	ALL	560506.8	3615411 NonCancer	1.16E-04	1.16E-04	1.53E-04	0.00E+00	0.00E+00	1.16E-04	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	
150	ALL	560439.3	3615721 NonCancer	1.06E-04	1.06E-04	1.39E-04	0.00E+00	0.00E+00	1.06E-04	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	
151	ALL	559940.2	3615518 NonCancer	9.24E-05	9.24E-05	1.22E-04	0.00E+00	0.00E+00	9.24E-05	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	
152	ALL	560005.3	3615124 NonCancer	1.06E-04	1.06E-04	1.40E-04	0.00E+00	0.00E+00	1.06E-04	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	
153	ALL	559732.4	3615117 NonCancer	7.58E-05	7.58E-05	1.00E-04	0.00E+00	0.00E+00	7.58E-05	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	

201	ALL	558054.3	3612587	NonCancer	8.12E-05	8.12E-05	1.07E-04	0.00E+00	0.00E+00	8.12E-05	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
202	ALL	557738.2	3612045	NonCancer	5.48E-05	5.48E-05	7.23E-05	0.00E+00	0.00E+00	5.48E-05	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
203	ALL	557818.9	3611956	NonCancer	5.39E-05	5.39E-05	7.12E-05	0.00E+00	0.00E+00	5.39E-05	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
204	ALL	558001.9	3611568	NonCancer	6.09E-05	6.09E-05	8.04E-05	0.00E+00	0.00E+00	6.09E-05	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
205	ALL	558066.4	3611605	NonCancer	6.27E-05	6.27E-05	8.27E-05	0.00E+00	0.00E+00	6.27E-05	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
206	ALL	558118.9	3611823	NonCancer	5.86E-05	5.86E-05	7.74E-05	0.00E+00	0.00E+00	5.86E-05	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
207	ALL	558303.2	3611500	NonCancer	7.53E-05	7.53E-05	9.95E-05	0.00E+00	0.00E+00	7.53E-05	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
208	ALL	557572.7	3611569	NonCancer	5.08E-05	5.08E-05	6.71E-05	0.00E+00	0.00E+00	5.08E-05	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
209	ALL	557615.3	3611365	NonCancer	6.02E-05	6.02E-05	7.95E-05	0.00E+00	0.00E+00	6.02E-05	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
210	ALL	555468.9	3610394	NonCancer	4.85E-05	4.85E-05	6.40E-05	0.00E+00	0.00E+00	4.85E-05	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
211	ALL	554950.9	3610471	NonCancer	4.61E-05	4.61E-05	6.09E-05	0.00E+00	0.00E+00	4.61E-05	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
212	ALL	555257.4	3610320	NonCancer	4.57E-05	4.57E-05	6.04E-05	0.00E+00	0.00E+00	4.57E-05	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
213	ALL	555624.5	3609956	NonCancer	5.67E-05	5.67E-05	7.48E-05	0.00E+00	0.00E+00	5.67E-05	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
214	ALL	555470.1	3609843	NonCancer	4.71E-05	4.71E-05	6.22E-05	0.00E+00	0.00E+00	4.71E-05	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
215	ALL	555364.9	3609917	NonCancer	5.12E-05	5.12E-05	6.76E-05	0.00E+00	0.00E+00	5.12E-05	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
216	ALL	555154.5	3609987	NonCancer	4.95E-05	4.95E-05	6.54E-05	0.00E+00	0.00E+00	4.95E-05	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
217	ALL	555247.1	3609845	NonCancer	4.24E-05	4.24E-05	5.61E-05	0.00E+00	0.00E+00	4.24E-05	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
218	ALL	555260.7	3610043	NonCancer	5.27E-05	5.27E-05	6.96E-05	0.00E+00	0.00E+00	5.27E-05	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
219	ALL	555091.6	3610153	NonCancer	4.93E-05	4.93E-05	6.51E-05	0.00E+00	0.00E+00	4.93E-05	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
220	ALL	554916.6	3610082	NonCancer	4.89E-05	4.89E-05	6.46E-05	0.00E+00	0.00E+00	4.89E-05	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
221	ALL	555139.6	3610385	NonCancer	4.58E-05	4.58E-05	6.04E-05	0.00E+00	0.00E+00	4.58E-05	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
222	ALL	555452.9	3610269	NonCancer	4.60E-05	4.60E-05	6.08E-05	0.00E+00	0.00E+00	4.60E-05	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
223	ALL	554813.7	3610285	NonCancer	4.63E-05	4.63E-05	6.11E-05	0.00E+00	0.00E+00	4.63E-05	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
224	ALL	554775.9	3610128	NonCancer	4.80E-05	4.80E-05	6.34E-05	0.00E+00	0.00E+00	4.80E-05	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
225	ALL	554846.8	3609863	NonCancer	3.83E-05	3.83E-05	5.05E-05	0.00E+00	0.00E+00	3.83E-05	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
226	ALL	554557.5	3610491	NonCancer	4.48E-05	4.48E-05	5.92E-05	0.00E+00	0.00E+00	4.48E-05	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
227	ALL	554655.7	3610353	NonCancer	4.53E-05	4.53E-05	5.98E-05	0.00E+00	0.00E+00	4.53E-05	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
228	ALL	555351.7	3610215	NonCancer	4.69E-05	4.69E-05	6.20E-05	0.00E+00	0.00E+00	4.69E-05	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
229	ALL	554981	3609668	NonCancer	4.27E-05	4.27E-05	5.64E-05	0.00E+00	0.00E+00	4.27E-05	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
230	ALL	554865.7	3609823	NonCancer	3.96E-05	3.96E-05	5.24E-05	0.00E+00	0.00E+00	3.96E-05	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
231	ALL	554765.3	3609682	NonCancer	4.11E-05	4.11E-05	5.43E-05	0.00E+00	0.00E+00	4.11E-05	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
232	ALL	554824.3	3609762	NonCancer	4.08E-05	4.08E-05	5.39E-05	0.00E+00	0.00E+00	4.08E-05	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
233	ALL	554820	3609597	NonCancer	4.11E-05	4.11E-05	5.43E-05	0.00E+00	0.00E+00	4.11E-05	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
234	ALL	559621.5	3610116	NonCancer	1.59E-04	1.59E-04	2.09E-04	0.00E+00	0.00E+00	1.59E-04	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
235	ALL	561411.5	3613631	NonCancer	4.60E-05	4.60E-05	6.07E-05	0.00E+00	0.00E+00	4.60E-05	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
236	ALL	561858.4	3613809	NonCancer	3.75E-05	3.75E-05	4.95E-05	0.00E+00	0.00E+00	3.75E-05	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
237	ALL	562026.7	3613592	NonCancer	3.73E-05	3.73E-05	4.92E-05	0.00E+00	0.00E+00	3.73E-05	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
238	ALL	561867.8	3614172	NonCancer	4.32E-05	4.32E-05	5.71E-05	0.00E+00	0.00E+00	4.32E-05	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
239	ALL	562931.3	3614214	NonCancer	3.88E-05	3.88E-05	5.13E-05	0.00E+00	0.00E+00	3.88E-05	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
240	ALL	563045.6	3613939	NonCancer	3.69E-05	3.69E-05	4.87E-05	0.00E+00	0.00E+00	3.69E-05	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
241	ALL	563217.8	3613486	NonCancer	3.23E-05	3.23E-05	4.27E-05	0.00E+00	0.00E+00	3.23E-05	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
242	ALL	562687.5	3613941	NonCancer	3.87E-05	3.87E-05	5.11E-05	0.00E+00	0.00E+00	3.87E-05	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
243	ALL	562649.8	3613906	NonCancer	3.85E-05	3.85E-05	5.08E-05	0.00E+00	0.00E+00	3.85E-05	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
244	ALL	562723.9	3613915	NonCancer	3.84E-05	3.84E-05	5.07E-05	0.00E+00	0.00E+00	3.84E-05	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
245	ALL	562804.6	3613654	NonCancer	3.65E-05	3.65E-05	4.82E-05	0.00E+00	0.00E+00	3.65E-05	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
246	ALL	562820.8	3613739	NonCancer	3.57E-05	3.57E-05	4.72E-05	0.00E+00	0.00E+00	3.57E-05	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
247	ALL	562904.2	3613751	NonCancer	3.60E-05	3.60E-05	4.76E-05	0.00E+00	0.00E+00	3.60E-05	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
248	ALL	562710.4	3613463	NonCancer	3.72E-05	3.72E-05	4.91E-05	0.00E+00	0.00E+00	3.72E-05	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
249	ALL	562858.5	3613385	NonCancer	3.51E-05	3.51E-05	4.63E-05	0.00E+00	0.00E+00	3.51E-05	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
250	ALL	567006.8	3612625	NonCancer	3.89E-05	3.89E-05	5.11E-04	0.00E+00	0.00E+00	3.89E-05	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
251	ALL	560914.3	3612480	NonCancer	6.55E-05	6.55E-05	8.65E-05</												

impo_Acute_UnmitHRAInput.hra

HARP2 - HRACalc (dated 17023) 6/26/2019 11:20:24 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

Campo_Acute_UnmitOutput

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\Campo_Acute_UnmitNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\Campo_Acute_UnmitNCAcuteRiskSumByRec.csv

HRA ran successfully

HARP2 - HRACalc (dated 17023) 6/26/2019 11:25:17 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to:

C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_MIT\hra\Campo_Chronic_MitNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_MIT\hra\Campo_Chronic_MitNCChronicRiskSumByRec.csv

HRA ran successfully

*HARP - HRACalc v17023 6/26/2019 11:20:09 AM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019 ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE/RESP	SKIN	EYE	BONE/TEETEND	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL	562526.4	3622922	NonCancer	7.69E-05	8.01E-05	7.98E-08	5.32E-08	1.06E-08	7.69E-05	3.32E-04	7.69E-05	0.00E+00	0.00E+00	0.00E+00	1.05E-06	0.00E+00	0.00E+00	3.32E-04
2	ALL	562676.8	3622718	NonCancer	9.48E-05	9.88E-05	9.84E-08	6.57E-08	1.31E-08	9.48E-05	4.09E-04	9.48E-05	0.00E+00	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	4.09E-04
3	ALL	563011.1	3622513	NonCancer	1.07E-04	1.12E-04	1.11E-07	7.43E-08	1.48E-08	1.07E-04	4.63E-04	1.07E-04	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	4.63E-04
4	ALL	563029.7	3622879	NonCancer	1.00E-04	1.05E-04	1.04E-07	6.95E-08	1.39E-08	1.00E-04	4.33E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	4.33E-04
5	ALL	562994.4	3622513	NonCancer	1.31E-04	1.37E-04	1.36E-07	9.10E-08	1.82E-08	1.31E-04	5.67E-04	1.31E-04	0.00E+00	0.00E+00	0.00E+00	1.80E-06	0.00E+00	0.00E+00	5.67E-04
6	ALL	563074.2	3619954	NonCancer	6.02E-04	6.27E-04	6.24E-07	4.17E-07	8.32E-08	6.02E-04	2.60E-03	6.02E-04	0.00E+00	0.00E+00	0.00E+00	8.22E-06	0.00E+00	0.00E+00	2.60E-03
7	ALL	564649.8	3618755	NonCancer	2.59E-04	2.70E-04	2.69E-07	1.79E-07	3.59E-08	2.59E-04	1.12E-03	2.59E-04	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	1.12E-03
8	ALL	565274	3618506	NonCancer	1.62E-04	1.69E-04	1.68E-07	1.12E-07	2.24E-08	1.62E-04	6.98E-04	1.62E-04	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	6.98E-04
9	ALL	564668.6	3618324	NonCancer	2.29E-04	2.39E-04	2.38E-07	1.59E-07	3.17E-08	2.29E-04	8.98E-04	2.29E-04	0.00E+00	0.00E+00	0.00E+00	3.13E-06	0.00E+00	0.00E+00	8.98E-04
10	ALL	564915.6	3618223	NonCancer	1.86E-04	1.94E-04	1.93E-07	1.29E-07	2.58E-08	1.86E-04	8.04E-04	1.86E-04	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	8.04E-04
11	ALL	565167.9	3618088	NonCancer	1.55E-04	1.62E-04	1.61E-07	1.08E-07	2.15E-08	1.55E-04	6.71E-04	1.55E-04	0.00E+00	0.00E+00	0.00E+00	2.12E-06	0.00E+00	0.00E+00	6.71E-04
12	ALL	565310.2	3618062	NonCancer	1.44E-04	1.50E-04	1.50E-07	9.98E-08	2.00E-08	1.44E-04	6.22E-04	1.44E-04	0.00E+00	0.00E+00	0.00E+00	1.97E-06	0.00E+00	0.00E+00	6.22E-04
13	ALL	564753.1	3618020	NonCancer	1.89E-04	1.97E-04	1.96E-07	1.31E-07	2.62E-08	1.89E-04	8.16E-04	1.89E-04	0.00E+00	0.00E+00	0.00E+00	2.58E-06	0.00E+00	0.00E+00	8.16E-04
14	ALL	564687.4	3617912	NonCancer	1.88E-04	1.96E-04	1.95E-07	1.30E-07	2.60E-08	1.88E-04	8.12E-04	1.88E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-06	0.00E+00	0.00E+00	8.12E-04
15	ALL	564895.4	3617819	NonCancer	1.64E-04	1.71E-04	1.70E-07	1.13E-07	2.27E-08	1.64E-04	7.07E-04	1.64E-04	0.00E+00	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	7.07E-04
16	ALL	564753.7	3617774	NonCancer	1.64E-04	1.70E-04	1.70E-07	1.13E-07	2.26E-08	1.64E-04	7.06E-04	1.64E-04	0.00E+00	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	7.06E-04
17	ALL	565102.6	3616583	NonCancer	1.15E-04	1.20E-04	1.19E-07	7.96E-08	1.59E-08	1.15E-04	4.96E-04	1.15E-04	0.00E+00	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	4.96E-04
18	ALL	564942	3616644	NonCancer	1.21E-04	1.27E-04	1.26E-07	8.41E-08	1.68E-08	1.22E-04	5.24E-04	1.21E-04	0.00E+00	0.00E+00	0.00E+00	1.66E-06	0.00E+00	0.00E+00	5.24E-04
19	ALL	564931.4	3616752	NonCancer	1.23E-04	1.28E-04	1.28E-07	8.53E-08	1.70E-08	1.23E-04	5.32E-04	1.23E-04	0.00E+00	0.00E+00	0.00E+00	1.68E-06	0.00E+00	0.00E+00	5.32E-04
20	ALL	564564.5	3616569	NonCancer	1.37E-04	1.43E-04	1.42E-07	9.49E-08	1.90E-08	1.37E-04	5.91E-04	1.37E-04	0.00E+00	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	5.91E-04
21	ALL	564664	3616542	NonCancer	1.32E-04	1.38E-04	1.37E-07	9.15E-08	1.83E-08	1.32E-04	5.70E-04	1.32E-04	0.00E+00	0.00E+00	0.00E+00	1.81E-06	0.00E+00	0.00E+00	5.70E-04
22	ALL	564432.8	3616542	NonCancer	1.41E-04	1.47E-04	1.46E-07	9.78E-08	1.95E-08	1.41E-04	6.09E-04	1.41E-04	0.00E+00	0.00E+00	0.00E+00	1.93E-06	0.00E+00	0.00E+00	6.09E-04
23	ALL	563387.5	3616999	NonCancer	6.47E-04	6.74E-04	6.71E-07	4.48E-07	8.95E-08	6.47E-04	2.79E-03	6.47E-04	0.00E+00	0.00E+00	0.00E+00	8.84E-06	0.00E+00	0.00E+00	2.79E-03
24	ALL	563525.2	3616610	NonCancer	2.07E-04	2.16E-04	2.15E-07	1.43E-07	2.87E-08	2.07E-04	8.94E-04	2.07E-04	0.00E+00	0.00E+00	0.00E+00	2.83E-06	0.00E+00	0.00E+00	8.94E-04
25	ALL	563134.8	3616687	NonCancer	3.98E-04	4.15E-04	4.13E-07	2.76E-07	5.51E-08	3.98E-04	1.72E-03	3.98E-04	0.00E+00	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	1.72E-03
26	ALL	563339.7	3616758	NonCancer	3.17E-04	3.31E-04	3.29E-07	2.20E-07	4.39E-08	3.17E-04	1.37E-03	3.17E-04	0.00E+00	0.00E+00	0.00E+00	4.34E-06	0.00E+00	0.00E+00	1.37E-03
27	ALL	563753.8	3616971	NonCancer	2.10E-04	2.19E-04	2.18E-07	1.46E-07	2.91E-08	2.10E-04	9.08E-04	2.10E-04	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	9.08E-04
28	ALL	563585.2	3616424	NonCancer	1.80E-04	1.87E-04	1.86E-07	1.24E-07	2.49E-08	1.80E-04	7.75E-04	1.80E-04	0.00E+00	0.00E+00	0.00E+00	2.45E-06	0.00E+00	0.00E+00	7.75E-04
29	ALL	562975.6	3616672	NonCancer	4.66E-04	4.85E-04	4.83E-07	3.23E-07	6.45E-08	4.66E-04	2.01E-03	4.66E-04	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	2.01E-03
30	ALL	563158	3616514	NonCancer	2.80E-04	2.92E-04	2.91E-07	1.94E-07	3.88E-08	2.80E-04	1.21E-03	2.80E-04	0.00E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	1.21E-03
31	ALL	563083.3	3616508	NonCancer	3.08E-04	3.21E-04	3.20E-07	2.13E-07	4.26E-08	3.08E-04	1.33E-03	3.08E-04	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	0.00E+00	1.33E-03
32	ALL	563012.4	3616476	NonCancer	3.23E-04	3.37E-04	3.35E-07	2.24E-07	4.48E-08	3.24E-04	1.40E-03	3.23E-04	0.00E+00	0.00E+00	0.00E+00	4.42E-06	0.00E+00	0.00E+00	1.40E-03
33	ALL	562997.9	3616412	NonCancer	3.02E-04	3.15E-04	3.13E-07	2.09E-07	4.18E-08	3.02E-04	1.30E-03	3.02E-04	0.00E+00	0.00E+00	0.00E+00	4.13E-06	0.00E+00	0.00E+00	1.30E-03
34	ALL	562978.5	3616317	NonCancer	2.80E-04	2.92E-04	2.91E-07	1.94E-07	3.88E-08	2.80E-04	1.21E-03	2.80E-04	0.00E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	1.21E-03
35	ALL	563178.4	3616326	NonCancer	2.26E-04	2.36E-04	2.35E-07	1.57E-07	3.13E-08	2.26E-04	9.76E-04	2.26E-04	0.00E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	9.76E-04
36	ALL	562915.4	3616311	NonCancer	3.01E-04	3.14E-04	3.13E-07	2.09E-07	4.17E-08	3.02E-04	1.30E-03	3.01E-04	0.00E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	1.30E-03
37	ALL	563072.6	3616217	NonCancer	2.33E-04	2.43E-04	2.42E-07	1.61E-07	3.22E-08	2.33E-04	1.01E-03	2.33E-04	0.00E+00	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	1.01E-03
38	ALL	562805.8	3616479	NonCancer	3.97E-04	4.13E-04	4.12E-07	2.75E-07	5.49E-08	3.97E-04	1.71E-03	3.97E-04	0.00E+00	0.00E+00	0.00E+00	5.42E-06	0.00E+00	0.00E+00	1.71E-03
39	ALL	562786.4	3616406	NonCancer	3.70E-04	3.85E-04	3.83E-07	2.56E-07	5.11E-08	3.70E-04	1.59E-03	3.69E-04	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	1.59E-03
40	ALL	562721.4	3616347	NonCancer	3.75E-04	3.91E-04	3.89E-07	2.60E-07	5.19E-08	3.75E-04	1.62E-03	3.75E-04	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	1.62E-03
41	ALL	562650.5	3617499	NonCancer	9.77E-04	1.02E-03	1.01E-06	6.76E-07	1.35E-07	9.77E-04	4.21E-03	9.77E-04	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	4.21E-03
42	ALL	562077	3616996	NonCancer	8.69E-04	9.06E-04	9.02E-07	6.02E-07	1.20E-07	8.69E-04	3.75E-03	8.69E-04	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	3.75E-03
43	ALL	562127	3616996	NonCancer	8.36E-04	8.71E-04	8.67E-07	5.79E-07	1.16E-07	8.36E-04	3.61E-03	8.36E-04	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	3.61E-03
44	ALL	562227	3617021	NonCancer	7.89E-04	8.22E-04	8.19E-07	5.47E-07	1.09E-07	7.90E-04	3.41E-03	7.89E-04	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	3.41E-03
45	ALL	562427	3617021	NonCancer	7.14E-04	7.44E-04	7.41E-07	4.94E-07	9.88E-08	7.14E-04	3.08E-03	7.14E-04	0.00E+00	0.00E+00	0.00E+00	9.75E-06	0.00E+00	0.00E+00	3.08E-03
46	ALL	562427	3617046	NonCancer	7.28E-04	7.59E-04	7.55E-07	5.04E-07	1.01E-07	7.28E-04	3.14E-03	7.28E-04	0.00E+00	0.00E+00	0.00E+00	9.95E-06	0.00E+00	0.00E+00	3.14E-03
47	ALL	562452	3617046	NonCancer	7.21E-04	7.51E-04	7.48E-07	4.99E-07	9.98E-08	7.21E-04	3.11E-03	7.21E-04	0.00E+00	0.00E+00	0.00E+00	9.85E-06	0.00E+00	0.00E+00	3.11E-03
48	ALL	562177	3617071	NonCancer	8.73E-04	9.09E-04	9.05E-07	6.04E-07	1.21E-07	8.73E-04	3.77E-03	8.72E-04	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	3.77E-03
49	ALL	562252	3617071	NonCancer	8.20E-04	8.54E-04	8.50E-07	5.68E-07	1.13E-07	8.20E-04	3.54E-03	8.20E-04	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	3.54E-03
50	ALL	562427	3617071	NonCancer	7.43E-04	7.74E-04	7.70E-07	5.14E-07	1.03E-07	7.43E-04									

100 ALL	562527	3617321 NonCancer	8.97E-04	9.34E-04	9.30E-07	6.21E-07	1.24E-07	8.97E-04	3.87E-03	8.97E-04	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	3.87E-03
101 ALL	562552	3617321 NonCancer	8.81E-04	9.18E-04	9.14E-07	6.10E-07	1.22E-07	8.81E-04	3.80E-03	8.81E-04	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	3.80E-03
102 ALL	562227	3617346 NonCancer	1.54E-03	1.60E-03	1.60E-06	1.07E-06	2.13E-07	1.54E-03	6.64E-03	1.54E-03	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	6.64E-03
103 ALL	562477	3617346 NonCancer	9.70E-04	1.01E-03	1.01E-06	6.72E-07	1.34E-07	9.70E-04	4.19E-03	9.70E-04	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	4.19E-03
104 ALL	562502	3617346 NonCancer	9.49E-04	9.88E-04	9.84E-07	6.57E-07	1.31E-07	9.49E-04	4.09E-03	9.48E-04	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	4.09E-03
105 ALL	562402	3617371 NonCancer	1.29E-03	1.34E-03	1.34E-06	8.91E-07	1.78E-07	1.29E-03	5.55E-03	1.29E-03	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	5.55E-03
106 ALL	562502	3617371 NonCancer	9.83E-04	1.02E-03	1.02E-06	6.80E-07	1.36E-07	9.83E-04	4.24E-03	9.83E-04	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	4.24E-03
107 ALL	561789.9	3617208 NonCancer	1.20E-03	1.25E-03	1.24E-06	8.30E-07	1.66E-07	1.20E-03	5.18E-03	1.20E-03	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	5.18E-03
108 ALL	561800.6	3617014 NonCancer	1.07E-03	1.11E-03	1.10E-06	7.37E-07	1.47E-07	1.07E-03	4.60E-03	1.06E-03	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	4.60E-03
109 ALL	561861.6	3617005 NonCancer	1.03E-03	1.07E-03	1.07E-06	7.14E-07	1.43E-07	1.03E-03	4.45E-03	1.03E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	4.45E-03
110 ALL	561406.2	3617449 NonCancer	1.60E-03	1.67E-03	1.66E-06	1.11E-06	2.22E-07	1.61E-03	6.92E-03	1.60E-03	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	6.92E-03
111 ALL	560619.1	3617643 NonCancer	5.69E-04	5.93E-04	5.90E-07	3.94E-07	7.87E-08	5.69E-04	2.46E-03	5.69E-04	0.00E+00	0.00E+00	0.00E+00	7.77E-06	0.00E+00	0.00E+00	2.46E-03
112 ALL	560410.3	3617967 NonCancer	4.52E-04	4.71E-04	4.69E-07	3.13E-07	6.25E-08	4.52E-04	1.95E-03	4.52E-04	0.00E+00	0.00E+00	0.00E+00	6.17E-06	0.00E+00	0.00E+00	1.95E-03
113 ALL	560323.2	3617887 NonCancer	4.74E-04	4.94E-04	4.92E-07	3.29E-07	6.57E-08	4.75E-04	2.05E-03	4.74E-04	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	2.05E-03
114 ALL	559676.9	3617557 NonCancer	4.62E-04	4.82E-04	4.80E-07	3.20E-07	6.40E-08	4.62E-04	2.00E-03	4.62E-04	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	2.00E-03
115 ALL	559716.2	3617484 NonCancer	4.74E-04	4.94E-04	4.92E-07	3.28E-07	6.56E-08	4.74E-04	2.05E-03	4.74E-04	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	2.05E-03
116 ALL	559685.4	3618739 NonCancer	8.04E-04	8.38E-04	8.34E-07	5.57E-07	1.11E-07	8.04E-04	3.74E-03	8.04E-04	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	3.47E-03
117 ALL	559662.2	3618710 NonCancer	7.80E-04	8.12E-04	8.09E-07	5.40E-07	1.08E-07	7.80E-04	3.36E-03	7.79E-04	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	3.36E-03
118 ALL	559644	3618755 NonCancer	8.23E-04	8.57E-04	8.53E-07	5.70E-07	1.14E-07	8.23E-04	3.55E-03	8.23E-04	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	3.55E-03
119 ALL	559492.5	3618495 NonCancer	6.41E-04	6.68E-04	6.65E-07	4.44E-07	8.87E-08	6.41E-04	2.77E-03	6.41E-04	0.00E+00	0.00E+00	0.00E+00	8.76E-06	0.00E+00	0.00E+00	2.77E-03
120 ALL	559552.1	3618466 NonCancer	6.32E-04	6.59E-04	6.56E-07	4.38E-07	8.75E-08	6.33E-04	2.73E-03	6.32E-04	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	2.73E-03
121 ALL	559266	3618270 NonCancer	5.48E-04	5.71E-04	5.69E-07	3.79E-07	7.58E-08	5.48E-04	2.37E-03	5.48E-04	0.00E+00	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	2.37E-03
122 ALL	559270.9	3618358 NonCancer	5.75E-04	5.99E-04	5.97E-07	3.98E-07	7.96E-08	5.75E-04	2.48E-03	5.75E-04	0.00E+00	0.00E+00	0.00E+00	7.86E-06	0.00E+00	0.00E+00	2.48E-03
123 ALL	559528.3	3618071 NonCancer	4.92E-04	5.13E-04	5.11E-07	3.41E-07	6.81E-08	4.92E-04	2.12E-03	4.92E-04	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	2.12E-03
124 ALL	559729.6	3617998 NonCancer	4.64E-04	4.83E-04	4.81E-07	3.21E-07	6.42E-08	4.64E-04	2.00E-03	4.64E-04	0.00E+00	0.00E+00	0.00E+00	6.34E-06	0.00E+00	0.00E+00	2.00E-03
125 ALL	559907.1	3619726 NonCancer	1.59E-03	1.65E-03	1.65E-06	1.10E-06	2.20E-07	1.59E-03	6.85E-03	1.59E-03	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	6.85E-03
126 ALL	560055.5	3619585 NonCancer	8.67E-04	9.03E-04	8.99E-07	6.00E-07	1.20E-07	8.67E-04	3.74E-03	8.67E-04	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	3.74E-03
127 ALL	559975	3619544 NonCancer	1.07E-03	1.11E-03	1.11E-06	7.39E-07	1.48E-07	1.07E-03	4.61E-03	1.07E-03	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	4.61E-03
128 ALL	559699.2	3620732 NonCancer	9.41E-05	9.80E-05	9.76E-08	6.51E-08	1.30E-08	9.41E-05	4.06E-04	9.41E-05	0.00E+00	0.00E+00	0.00E+00	1.29E-06	0.00E+00	0.00E+00	4.06E-04
129 ALL	559569.9	3621314 NonCancer	3.77E-05	3.93E-05	3.92E-08	2.61E-08	5.22E-09	3.78E-05	1.63E-04	3.77E-05	0.00E+00	0.00E+00	0.00E+00	5.16E-07	0.00E+00	0.00E+00	1.63E-04
130 ALL	559424.8	3621633 NonCancer	3.09E-05	3.22E-05	3.21E-08	2.14E-08	4.28E-09	3.10E-05	1.34E-04	3.09E-05	0.00E+00	0.00E+00	0.00E+00	4.23E-07	0.00E+00	0.00E+00	1.34E-04
131 ALL	559622.4	3621590 NonCancer	3.70E-05	3.85E-05	3.84E-08	2.56E-08	5.12E-09	3.70E-05	1.60E-04	3.70E-05	0.00E+00	0.00E+00	0.00E+00	5.05E-07	0.00E+00	0.00E+00	1.60E-04
132 ALL	559597.3	3621541 NonCancer	3.67E-05	3.83E-05	3.81E-08	2.54E-08	5.08E-09	3.67E-05	1.59E-04	3.67E-05	0.00E+00	0.00E+00	0.00E+00	5.02E-07	0.00E+00	0.00E+00	1.59E-04
133 ALL	559477.7	3621971 NonCancer	3.12E-05	3.26E-05	3.24E-08	2.16E-08	4.32E-09	3.13E-05	1.35E-04	3.12E-05	0.00E+00	0.00E+00	0.00E+00	4.27E-07	0.00E+00	0.00E+00	1.35E-04
134 ALL	559561.2	3622131 NonCancer	3.50E-05	3.65E-05	3.64E-08	2.43E-08	4.85E-09	3.51E-05	1.51E-04	3.50E-05	0.00E+00	0.00E+00	0.00E+00	4.79E-07	0.00E+00	0.00E+00	1.51E-04
135 ALL	559561.7	3621773 NonCancer	3.25E-05	3.38E-05	3.37E-08	2.25E-08	4.50E-09	3.25E-05	1.40E-04	3.25E-05	0.00E+00	0.00E+00	0.00E+00	4.44E-07	0.00E+00	0.00E+00	1.40E-04
136 ALL	559912.5	3622071 NonCancer	3.91E-05	4.07E-05	4.05E-08	2.71E-08	5.41E-09	3.91E-05	1.69E-04	3.91E-05	0.00E+00	0.00E+00	0.00E+00	5.34E-07	0.00E+00	0.00E+00	1.69E-04
137 ALL	560050.6	3622042 NonCancer	4.22E-05	4.40E-05	4.38E-08	2.93E-08	5.85E-09	4.23E-05	1.82E-04	4.22E-05	0.00E+00	0.00E+00	0.00E+00	5.77E-07	0.00E+00	0.00E+00	1.82E-04
138 ALL	560421.5	3622723 NonCancer	3.52E-05	3.66E-05	3.65E-08	2.43E-08	4.87E-09	3.52E-05	1.52E-04	3.52E-05	0.00E+00	0.00E+00	0.00E+00	4.80E-07	0.00E+00	0.00E+00	1.52E-04
139 ALL	560577.8	3622355 NonCancer	4.12E-05	4.29E-05	4.27E-08	2.85E-08	5.70E-09	4.12E-05	1.78E-04	4.12E-05	0.00E+00	0.00E+00	0.00E+00	5.63E-07	0.00E+00	0.00E+00	1.78E-04
140 ALL	560962.3	3622761 NonCancer	4.11E-05	4.28E-05	4.27E-08	2.85E-08	5.69E-09	4.11E-05	1.77E-04	4.11E-05	0.00E+00	0.00E+00	0.00E+00	5.62E-07	0.00E+00	0.00E+00	1.77E-04
141 ALL	560627	3622581 NonCancer	4.12E-05	4.29E-05	4.27E-08	2.85E-08	5.70E-09	4.12E-05	1.78E-04	4.12E-05	0.00E+00	0.00E+00	0.00E+00	5.63E-07	0.00E+00	0.00E+00	1.78E-04
142 ALL	560754.8	3622637 NonCancer	3.97E-05	4.14E-05	4.12E-08	2.75E-08	5.50E-09	3.97E-05	1.71E-04	3.97E-05	0.00E+00	0.00E+00	0.00E+00	5.43E-07	0.00E+00	0.00E+00	1.71E-04
143 ALL	561738.6	3622472 NonCancer	6.30E-05	6.57E-05	6.54E-08	4.36E-08	8.72E-09	6.31E-05	2.72E-04	6.30E-05	0.00E+00	0.00E+00	0.00E+00	8.61E-07	0.00E+00	0.00E+00	2.72E-04
144 ALL	561372.5	3622198 NonCancer	6.82E-05	7.10E-05	7.07E-08	4.72E-08	9.43E-09	6.82E-05	2.94E-04	6.81E-05	0.00E+00	0.00E+00	0.00E+00	9.31E-07	0.00E+00	0.00E+00	2.94E-04
145 ALL	561270.6	3622145 NonCancer	7.11E-05	7.41E-05	7.38E-08	4.92E-08	9.84E-09	7.11E-05	3.07E-04	7.11E-05	0.00E+00	0.00E+00	0.00E+00	9.71E-07	0.00E+00	0.00E+00	3.07E-04
146 ALL	561371.4	3622093 NonCancer	7.14E-05	7.44E-05	7.41E-08	4.94E-08	9.88E-09	7.14E-05	3.08E-04	7.14E-05	0.00E+00	0.00E+00	0.00E+00	9.76E-07	0.00E+00	0.00E+00	3.08E-04
147 ALL	561382	3622072 NonCancer	7.29E-05	7.59E-05	7.56E-08	5.05E-08	1.01E-08	7.29E-05	3.14E-04	7.29E-05	0.00E+00	0.00E+00	0.00E+00	9.96E-07	0.00E+00	0.00E+00	3.14E-04
148 ALL	560036.1	3616936 NonCancer	7.55E-04	7.87E-04	7.83E-07	5.23E-07	1.05E-07	7.55E-04	3.26E-03	7.55E-04	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	3.26E-03
149 ALL	560506.8	3615411 NonCancer	7.22E-04	7.52E-04	7.49E-07	5.00E-07	9.99E-08	7.22E-04	3.12E-03	7.22E-04	0.00E+00	0.00E+00	0.00E+00	9.86E-06	0.00E+00	0.00E+00	3.12E-03
150 ALL	560439.3	3615721 NonCancer	7.58E-04	7.90E-04	7.86E-07	5.25E-07	1.05E-07	7.58E-04	3.27E-03	7.58E-04	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	3.27E-03
151 ALL	559940.2	3615518 NonCancer	1.15E-03	1.20E-03	1.19E-06	7.96E-07	1.59E-07	1.15E-03	4.96E-03	1.15E-03	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	4.96E-03
152 ALL	560005.3	3615124 NonCancer	8.67E-04	9													

201	ALL	558054.3	3612587	NonCancer	7.56E-04	7.87E-04	7.84E-07	5.23E-07	1.05E-07	7.56E-04	3.26E-03	7.56E-04	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	3.26E-03
202	ALL	557738.2	3612045	NonCancer	5.92E-04	6.17E-04	6.14E-07	4.10E-07	8.19E-08	5.92E-04	2.55E-03	5.92E-04	0.00E+00	0.00E+00	0.00E+00	8.09E-06	0.00E+00	0.00E+00	2.55E-03
203	ALL	557818.9	3611956	NonCancer	5.78E-04	6.02E-04	5.99E-07	4.00E-07	8.00E-08	5.78E-04	2.49E-03	5.78E-04	0.00E+00	0.00E+00	0.00E+00	7.89E-06	0.00E+00	0.00E+00	2.49E-03
204	ALL	558001.9	3611568	NonCancer	6.66E-04	6.94E-04	6.91E-07	4.61E-07	9.22E-08	6.66E-04	2.87E-03	6.66E-04	0.00E+00	0.00E+00	0.00E+00	9.10E-06	0.00E+00	0.00E+00	2.87E-03
205	ALL	558066.4	3611605	NonCancer	6.93E-04	7.22E-04	7.19E-07	4.80E-07	9.59E-08	6.94E-04	2.99E-03	6.93E-04	0.00E+00	0.00E+00	0.00E+00	9.47E-06	0.00E+00	0.00E+00	2.99E-03
206	ALL	558118.9	3611823	NonCancer	6.29E-04	6.55E-04	6.52E-07	4.35E-07	8.70E-08	6.29E-04	2.71E-03	6.29E-04	0.00E+00	0.00E+00	0.00E+00	8.59E-06	0.00E+00	0.00E+00	2.71E-03
207	ALL	558303.2	3611500	NonCancer	9.01E-04	9.38E-04	9.34E-07	6.24E-07	1.25E-07	9.01E-04	3.89E-03	9.01E-04	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	3.89E-03
208	ALL	557572.7	3611569	NonCancer	5.56E-04	5.80E-04	5.77E-07	3.85E-07	7.70E-08	5.57E-04	2.40E-03	5.56E-04	0.00E+00	0.00E+00	0.00E+00	7.60E-06	0.00E+00	0.00E+00	2.40E-03
209	ALL	557615.3	3611365	NonCancer	5.87E-04	6.12E-04	6.09E-07	4.07E-07	8.13E-08	5.87E-04	2.53E-03	5.87E-04	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	2.53E-03
210	ALL	555468.9	3610394	NonCancer	3.57E-04	3.72E-04	3.70E-07	2.47E-07	4.94E-08	3.57E-04	1.54E-03	3.57E-04	0.00E+00	0.00E+00	0.00E+00	4.88E-06	0.00E+00	0.00E+00	1.54E-03
211	ALL	554950.9	3610471	NonCancer	3.36E-04	3.50E-04	3.48E-07	2.33E-07	4.65E-08	3.36E-04	1.45E-03	3.36E-04	0.00E+00	0.00E+00	0.00E+00	4.59E-06	0.00E+00	0.00E+00	1.45E-03
212	ALL	555257.4	3610320	NonCancer	3.44E-04	3.58E-04	3.57E-07	2.38E-07	4.76E-08	3.44E-04	1.48E-03	3.44E-04	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	1.48E-03
213	ALL	555624.5	3609956	NonCancer	3.55E-04	3.70E-04	3.69E-07	2.46E-07	4.92E-08	3.55E-04	1.53E-03	3.55E-04	0.00E+00	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	1.53E-03
214	ALL	555470.1	3609843	NonCancer	3.47E-04	3.61E-04	3.60E-07	2.40E-07	4.80E-08	3.47E-04	1.50E-03	3.47E-04	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	1.50E-03
215	ALL	555364.9	3609917	NonCancer	3.42E-04	3.56E-04	3.55E-07	2.37E-07	4.73E-08	3.42E-04	1.48E-03	3.42E-04	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	1.48E-03
216	ALL	555154.5	3609987	NonCancer	3.30E-04	3.44E-04	3.42E-07	2.29E-07	4.57E-08	3.30E-04	1.42E-03	3.30E-04	0.00E+00	0.00E+00	0.00E+00	4.51E-06	0.00E+00	0.00E+00	1.42E-03
217	ALL	555247.1	3609845	NonCancer	3.32E-04	3.46E-04	3.44E-07	2.30E-07	4.59E-08	3.32E-04	1.43E-03	3.32E-04	0.00E+00	0.00E+00	0.00E+00	4.53E-06	0.00E+00	0.00E+00	1.43E-03
218	ALL	555260.8	3610043	NonCancer	3.37E-04	3.51E-04	3.50E-07	2.33E-07	4.66E-08	3.37E-04	1.45E-03	3.37E-04	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	1.45E-03
219	ALL	555091.6	3610153	NonCancer	3.31E-04	3.45E-04	3.44E-07	2.29E-07	4.58E-08	3.31E-04	1.43E-03	3.31E-04	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	1.43E-03
220	ALL	554916.6	3610082	NonCancer	3.23E-04	3.36E-04	3.35E-07	2.23E-07	4.47E-08	3.23E-04	1.39E-03	3.23E-04	0.00E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	1.39E-03
221	ALL	555139.6	3610385	NonCancer	3.41E-04	3.55E-04	3.54E-07	2.36E-07	4.72E-08	3.41E-04	1.47E-03	3.41E-04	0.00E+00	0.00E+00	0.00E+00	4.66E-06	0.00E+00	0.00E+00	1.47E-03
222	ALL	555452.9	3610269	NonCancer	3.54E-04	3.65E-04	3.64E-07	2.43E-07	4.85E-08	3.54E-04	1.51E-03	3.54E-04	0.00E+00	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	1.51E-03
223	ALL	554813.7	3610285	NonCancer	3.24E-04	3.38E-04	3.36E-07	2.24E-07	4.49E-08	3.24E-04	1.40E-03	3.24E-04	0.00E+00	0.00E+00	0.00E+00	4.43E-06	0.00E+00	0.00E+00	1.40E-03
224	ALL	554775.9	3610128	NonCancer	3.18E-04	3.32E-04	3.30E-07	2.20E-07	4.40E-08	3.18E-04	1.37E-03	3.18E-04	0.00E+00	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	1.37E-03
225	ALL	554846.8	3609863	NonCancer	3.15E-04	3.28E-04	3.27E-07	2.18E-07	4.36E-08	3.15E-04	1.36E-03	3.15E-04	0.00E+00	0.00E+00	0.00E+00	4.30E-06	0.00E+00	0.00E+00	1.36E-03
226	ALL	554557.5	3610491	NonCancer	3.19E-04	3.33E-04	3.31E-07	2.21E-07	4.42E-08	3.19E-04	1.38E-03	3.19E-04	0.00E+00	0.00E+00	0.00E+00	4.36E-06	0.00E+00	0.00E+00	1.38E-03
227	ALL	554655.7	3610353	NonCancer	3.20E-04	3.33E-04	3.32E-07	2.21E-07	4.42E-08	3.20E-04	1.38E-03	3.20E-04	0.00E+00	0.00E+00	0.00E+00	4.37E-06	0.00E+00	0.00E+00	1.38E-03
228	ALL	555351.7	3610215	NonCancer	3.44E-04	3.58E-04	3.57E-07	2.38E-07	4.76E-08	3.44E-04	1.48E-03	3.44E-04	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	1.48E-03
229	ALL	554891	3609668	NonCancer	3.13E-04	3.26E-04	3.25E-07	2.17E-07	4.33E-08	3.13E-04	1.35E-03	3.13E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	1.35E-03
230	ALL	554865.7	3609823	NonCancer	3.15E-04	3.28E-04	3.26E-07	2.18E-07	4.35E-08	3.15E-04	1.36E-03	3.14E-04	0.00E+00	0.00E+00	0.00E+00	4.30E-06	0.00E+00	0.00E+00	1.36E-03
231	ALL	554765.3	3609682	NonCancer	3.08E-04	3.21E-04	3.20E-07	2.13E-07	4.27E-08	3.08E-04	1.33E-03	3.08E-04	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	0.00E+00	1.33E-03
232	ALL	554824.3	3609762	NonCancer	3.12E-04	3.25E-04	3.23E-07	2.16E-07	4.31E-08	3.12E-04	1.34E-03	3.12E-04	0.00E+00	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	1.34E-03
233	ALL	554820	3609597	NonCancer	3.09E-04	3.22E-04	3.21E-07	2.14E-07	4.28E-08	3.09E-04	1.33E-03	3.09E-04	0.00E+00	0.00E+00	0.00E+00	4.23E-06	0.00E+00	0.00E+00	1.33E-03
234	ALL	559621.5	3610116	NonCancer	8.63E-04	8.99E-04	8.95E-07	5.97E-07	1.19E-07	8.63E-04	3.72E-03	8.63E-04	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	3.72E-03
235	ALL	561411.5	3613631	NonCancer	2.92E-04	3.04E-04	3.03E-07	2.02E-07	4.04E-08	2.92E-04	1.26E-03	2.92E-04	0.00E+00	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	1.26E-03
236	ALL	561858.4	3613809	NonCancer	2.25E-04	2.34E-04	2.33E-07	1.56E-07	3.11E-08	2.25E-04	9.70E-04	2.25E-04	0.00E+00	0.00E+00	0.00E+00	3.07E-06	0.00E+00	0.00E+00	9.70E-04
237	ALL	562026.7	3613592	NonCancer	1.88E-04	1.96E-04	1.96E-07	1.31E-07	2.61E-08	1.89E-04	8.13E-04	1.88E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-06	0.00E+00	0.00E+00	8.13E-04
238	ALL	561867.8	3614172	NonCancer	2.58E-04	2.69E-04	2.68E-07	1.79E-07	3.57E-08	2.58E-04	1.11E-03	2.58E-04	0.00E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	1.11E-03
239	ALL	562923.1	3614214	NonCancer	1.62E-04	1.69E-04	1.68E-07	1.12E-07	2.24E-08	1.62E-04	6.98E-04	1.62E-04	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	6.98E-04
240	ALL	563045.6	3613939	NonCancer	1.44E-04	1.50E-04	1.49E-07	9.97E-08	1.99E-08	1.44E-04	6.21E-04	1.44E-04	0.00E+00	0.00E+00	0.00E+00	1.97E-06	0.00E+00	0.00E+00	6.21E-04
241	ALL	563217.8	3613486	NonCancer	1.23E-04	1.28E-04	1.28E-07	8.53E-08	1.70E-08	1.23E-04	5.31E-04	1.23E-04	0.00E+00	0.00E+00	0.00E+00	1.68E-06	0.00E+00	0.00E+00	5.31E-04
242	ALL	562687.5	3613941	NonCancer	1.63E-04	1.69E-04	1.69E-07	1.13E-07	2.25E-08	1.63E-04	7.02E-04	1.63E-04	0.00E+00	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	7.02E-04
243	ALL	562649.8	3613906	NonCancer	1.62E-04	1.69E-04	1.68E-07	1.12E-07	2.24E-08	1.62E-04	6.98E-04	1.62E-04	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	6.98E-04
244	ALL	562723.9	3613915	NonCancer	1.60E-04	1.67E-04	1.66E-07	1.11E-07	2.22E-08	1.61E-04	6.93E-04	1.60E-04	0.00E+00	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	6.93E-04
245	ALL	562804.6	3613654	NonCancer	1.39E-04	1.45E-04	1.45E-07	9.65E-08	1.93E-08	1.39E-04	6.01E-04	1.39E-04	0.00E+00	0.00E+00	0.00E+00	1.90E-06	0.00E+00	0.00E+00	6.01E-04
246	ALL	562820.8	3613739	NonCancer	1.45E-04	1.51E-04	1.51E-07	1.01E-07	2.01E-08	1.45E-04	6.27E-04	1.45E-04	0.00E+00	0.00E+00	0.00E+00	1.99E-06	0.00E+00	0.00E+00	6.27E-04
247	ALL	562904.2	3613751	NonCancer	1.46E-04	1.52E-04	1.51E-07	1.01E-07	2.02E-08	1.46E-04	6.29E-04	1.46E-04	0.00E+00	0.00E+00	0.00E+00	1.99E-06	0.00E+00	0.00E+00	6.29E-04
248	ALL	562710.4	3613463	NonCancer	1.34E-04	1.40E-04	1.39E-07	9.30E-08	1.86E-08	1.34E-04	5.80E-04	1.34E-04	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00	0.00E+00	5.80E-04
249	ALL	562858.5	3613858	NonCancer	1.24E-04	1.30E-04	1.29E-07	8.61E-08	1.72E-08	1.24E-04	5.37E-04	1.24E-04	0.00E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	5.37E-04
250	ALL	560706.8	3612625	NonCancer	3.69E-04	3.84E-04	3.83E-07	2.55E-07	5.10E-08	3.69E-04	1.59E-03	3.69E-04	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	1.59E-03
251																			

Campo_Chronic_UnmitHRAInput.hra

HARP2 - HRACalc (dated 17023) 6/26/2019 11:20:09 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to:

C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\Campo_Chronic_UnmitNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\Campo_Chronic_UnmitNCChronicRiskSumByRec.csv

v

HRA ran successfully

*HARP - HRACalc v17023 6/26/2019 11:25:06 AM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019 ANALYSIS\HRA\HARP2\C

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		562526.4	3622922	1.25E-08	1.3YrCance	1.20E-08	4.82E-10	4.88E-12	2.35E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		562676.8	3622718	1.54E-08	1.3YrCance	1.48E-08	5.95E-10	6.02E-12	2.89E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		563011.1	3622513	1.75E-08	1.3YrCance	1.68E-08	6.73E-10	6.81E-12	3.27E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		5630297	3622879	1.63E-08	1.3YrCance	1.57E-08	6.30E-10	6.37E-12	3.06E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		562994.4	3622153	2.14E-08	1.3YrCance	2.06E-08	8.25E-10	8.35E-12	4.01E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		563074.2	3619994	9.80E-08	1.3YrCance	9.41E-08	3.77E-09	3.82E-11	1.83E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		564649.8	3618755	4.22E-08	1.3YrCance	4.05E-08	1.63E-09	1.65E-11	7.90E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		565274	3618506	2.63E-08	1.3YrCance	2.53E-08	1.01E-09	1.03E-11	4.93E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		564668.6	3618324	3.73E-08	1.3YrCance	3.59E-08	1.44E-09	1.46E-11	6.99E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		564915.6	3618223	3.03E-08	1.3YrCance	2.92E-08	1.17E-09	1.18E-11	5.68E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		565167.9	3618088	2.53E-08	1.3YrCance	2.43E-08	9.75E-10	9.87E-12	4.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		565310.2	3618062	2.35E-08	1.3YrCance	2.26E-08	9.05E-10	9.16E-12	4.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		564753.1	3618020	3.08E-08	1.3YrCance	2.96E-08	1.19E-09	1.20E-11	5.77E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		564687.4	3617912	3.06E-08	1.3YrCance	2.94E-08	1.18E-09	1.20E-11	5.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		564895.4	3617819	2.67E-08	1.3YrCance	2.56E-08	1.03E-09	1.04E-11	5.00E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		564753.7	3617774	2.66E-08	1.3YrCance	2.56E-08	1.03E-09	1.04E-11	4.99E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		565102.6	3616583	1.87E-08	1.3YrCance	1.80E-08	7.21E-10	7.30E-12	3.51E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		564942	3616644	1.98E-08	1.3YrCance	1.90E-08	7.62E-10	7.72E-12	3.70E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		564931.4	3616752	2.01E-08	1.3YrCance	1.93E-08	7.73E-10	7.83E-12	3.76E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		564564.5	3616569	2.23E-08	1.3YrCance	2.14E-08	8.60E-10	8.70E-12	4.18E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		564664	3616542	2.15E-08	1.3YrCance	2.07E-08	8.29E-10	8.39E-12	4.03E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		564432.8	3616542	2.30E-08	1.3YrCance	2.21E-08	8.86E-10	8.97E-12	4.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		563387.5	3616999	1.05E-07	1.3YrCance	1.01E-07	4.06E-09	4.11E-11	1.97E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		563525.2	3616610	3.37E-08	1.3YrCance	3.24E-08	1.30E-09	1.32E-11	6.32E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		563134.8	3616687	6.48E-08	1.3YrCance	6.23E-08	2.50E-09	2.53E-11	1.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		563339.7	3616758	5.17E-08	1.3YrCance	4.97E-08	1.99E-09	2.02E-11	9.68E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		563753.8	3616971	3.43E-08	1.3YrCance	3.29E-08	1.32E-09	1.34E-11	6.42E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		563585.2	3616424	2.93E-08	1.3YrCance	2.81E-08	1.13E-09	1.14E-11	5.48E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		562975.6	3616672	7.58E-08	1.3YrCance	7.29E-08	2.92E-09	2.96E-11	1.42E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		563158	3616514	4.56E-08	1.3YrCance	4.39E-08	1.76E-09	1.78E-11	8.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		563083.3	3616508	5.02E-08	1.3YrCance	4.82E-08	1.93E-09	1.96E-11	9.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		563012.4	3616476	5.27E-08	1.3YrCance	5.06E-08	2.03E-09	2.05E-11	9.86E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		562997.9	3616412	4.92E-08	1.3YrCance	4.73E-08	1.90E-09	1.92E-11	9.21E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		562978.5	3616317	4.57E-08	1.3YrCance	4.39E-08	1.76E-09	1.78E-11	8.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		563178.4	3616326	3.68E-08	1.3YrCance	3.54E-08	1.42E-09	1.44E-11	6.90E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		562915.4	3616311	4.91E-08	1.3YrCance	4.72E-08	1.89E-09	1.91E-11	9.19E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		563072.6	3616217	3.79E-08	1.3YrCance	3.64E-08	1.46E-09	1.48E-11	7.10E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		562805.8	3616479	6.46E-08	1.3YrCance	6.21E-08	2.49E-09	2.52E-11	1.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		562786.4	3616406	6.02E-08	1.3YrCance	5.78E-08	2.32E-09	2.35E-11	1.13E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		562721.4	3616347	6.11E-08	1.3YrCance	5.87E-08	2.35E-09	2.38E-11	1.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		562650.5	3617499	1.59E-07	1.3YrCance	1.53E-07	6.13E-09	6.20E-11	2.98E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		562077	3616996	1.42E-07	1.3YrCance	1.36E-07	5.45E-09	5.52E-11	2.65E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		562127	3616996	1.36E-07	1.3YrCance	1.31E-07	5.24E-09	5.31E-11	2.55E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		562227	3617021	1.29E-07	1.3YrCance	1.24E-07	4.95E-09	5.01E-11	2.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		562427	3617021	1.16E-07	1.3YrCance	1.12E-07	4.48E-09	4.54E-11	2.18E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		562427	3617046	1.19E-07	1.3YrCance	1.14E-07	4.57E-09	4.62E-11	2.22E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		562452	3617046	1.17E-07	1.3YrCance	1.13E-07	4.52E-09	4.58E-11	2.20E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		562177	3617071	1.42E-07	1.3YrCance	1.37E-07	5.47E-09	5.54E-11	2.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		562252	3617071	1.33E-07	1.3YrCance	1.28E-07	5.14E-09	5.21E-11	2.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		562427	3617071	1.21E-07	1.3YrCance	1.16E-07	4.66E-09	4.72E-11	2.26E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		562227	3617096	1.41E-07	1.3YrCance	1.36E-07	5.44E-09	5.51E-11	2.64E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		562427	3617096	1.23E-07	1.3YrCance	1.19E-07	4.75E-09	4.81E-11	2.31E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		562502	3617096	1.20E-07	1.3YrCance	1.15E-07	4.62E-09	4.68E-11	2.25E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		562427	3617121	1.26E-07	1.3YrCance	1.21E-07	4.86E-09										

89 ALL	562552	3617271	1.37E-07	1.3YrCance	1.31E-07	5.27E-09	5.34E-11	2.56E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90 ALL	562202	3617296	2.20E-07	1.3YrCance	2.12E-07	8.49E-09	8.60E-11	4.13E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91 ALL	562352	3617296	1.76E-07	1.3YrCance	1.69E-07	6.78E-09	6.87E-11	3.30E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92 ALL	562427	3617296	1.55E-07	1.3YrCance	1.49E-07	5.96E-09	6.03E-11	2.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93 ALL	562477	3617296	1.47E-07	1.3YrCance	1.42E-07	5.68E-09	5.75E-11	2.76E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94 ALL	562502	3617296	1.45E-07	1.3YrCance	1.39E-07	5.58E-09	5.65E-11	2.71E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95 ALL	562527	3617296	1.42E-07	1.3YrCance	1.37E-07	5.49E-09	5.56E-11	2.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96 ALL	562377	3617321	1.79E-07	1.3YrCance	1.72E-07	6.88E-09	6.97E-11	3.34E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97 ALL	562427	3617321	1.62E-07	1.3YrCance	1.55E-07	6.22E-09	6.30E-11	3.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98 ALL	562477	3617321	1.52E-07	1.3YrCance	1.46E-07	5.87E-09	5.94E-11	2.85E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99 ALL	562502	3617321	1.49E-07	1.3YrCance	1.43E-07	5.75E-09	5.82E-11	2.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100 ALL	562527	3617321	1.46E-07	1.3YrCance	1.40E-07	5.63E-09	5.70E-11	2.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101 ALL	562552	3617321	1.43E-07	1.3YrCance	1.38E-07	5.53E-09	5.60E-11	2.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102 ALL	562227	3617346	2.51E-07	1.3YrCance	2.41E-07	9.66E-09	9.78E-11	4.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103 ALL	562477	3617346	1.58E-07	1.3YrCance	1.52E-07	6.09E-09	6.16E-11	2.96E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104 ALL	562502	3617346	1.54E-07	1.3YrCance	1.48E-07	5.95E-09	6.03E-11	2.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105 ALL	562402	3617371	2.10E-07	1.3YrCance	2.01E-07	8.08E-09	8.18E-11	3.92E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106 ALL	562502	3617371	1.60E-07	1.3YrCance	1.54E-07	6.17E-09	6.24E-11	3.00E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107 ALL	561789.9	3617208	1.95E-07	1.3YrCance	1.88E-07	7.53E-09	7.62E-11	3.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108 ALL	561800.6	3617014	1.73E-07	1.3YrCance	1.67E-07	6.68E-09	6.76E-11	3.25E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109 ALL	561861.6	3617005	1.68E-07	1.3YrCance	1.61E-07	6.47E-09	6.55E-11	3.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110 ALL	561406.2	3617449	2.61E-07	1.3YrCance	2.51E-07	1.01E-08	1.02E-10	4.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111 ALL	560619.1	3617643	9.27E-08	1.3YrCance	8.91E-08	3.57E-09	3.62E-11	1.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112 ALL	560410.3	3617967	7.36E-08	1.3YrCance	7.07E-08	2.83E-09	2.87E-11	1.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113 ALL	560323.2	3617887	7.73E-08	1.3YrCance	7.42E-08	2.98E-09	3.01E-11	1.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114 ALL	559676.9	3617557	7.53E-08	1.3YrCance	7.23E-08	2.90E-09	2.94E-11	1.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115 ALL	559716.2	3617484	7.72E-08	1.3YrCance	7.42E-08	2.97E-09	3.01E-11	1.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116 ALL	559685.4	3618739	1.31E-07	1.3YrCance	1.26E-07	5.04E-09	5.11E-11	2.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117 ALL	559662.2	3618710	1.27E-07	1.3YrCance	1.22E-07	4.89E-09	4.95E-11	2.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118 ALL	559644	3618755	1.34E-07	1.3YrCance	1.29E-07	5.16E-09	5.23E-11	2.51E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119 ALL	559492.5	3618495	1.04E-07	1.3YrCance	1.00E-07	4.02E-09	4.07E-11	1.95E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120 ALL	559552.1	3618466	1.03E-07	1.3YrCance	9.90E-08	3.97E-09	4.02E-11	1.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121 ALL	559266	3618270	8.92E-08	1.3YrCance	8.58E-08	3.44E-09	3.48E-11	1.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122 ALL	559270.9	3618358	9.37E-08	1.3YrCance	9.00E-08	3.61E-09	3.65E-11	1.75E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123 ALL	559528.3	3618071	8.01E-08	1.3YrCance	7.70E-08	3.09E-09	3.13E-11	1.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124 ALL	559729.6	3617998	7.55E-08	1.3YrCance	7.26E-08	2.91E-09	2.95E-11	1.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125 ALL	559907.1	3619726	2.58E-07	1.3YrCance	2.48E-07	9.95E-09	1.01E-10	4.84E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126 ALL	560055.5	3619585	1.41E-07	1.3YrCance	1.36E-07	5.44E-09	5.51E-11	2.64E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127 ALL	559975	3619544	1.74E-07	1.3YrCance	1.67E-07	6.70E-09	6.78E-11	3.26E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128 ALL	559699.2	3620732	1.53E-08	1.3YrCance	1.47E-08	5.90E-10	5.98E-12	2.87E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129 ALL	559569.9	3621314	6.15E-09	1.3YrCance	5.91E-09	2.37E-10	2.40E-12	1.15E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130 ALL	559424.8	3621633	5.04E-09	1.3YrCance	4.84E-09	1.94E-10	1.97E-12	9.43E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131 ALL	559622.4	3621590	6.02E-09	1.3YrCance	5.79E-09	2.32E-10	2.35E-12	1.13E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132 ALL	559597.3	3621541	5.98E-09	1.3YrCance	5.75E-09	2.30E-10	2.33E-12	1.12E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133 ALL	559477.7	3621971	5.09E-09	1.3YrCance	4.89E-09	1.96E-10	1.99E-12	9.53E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134 ALL	559561.2	3622131	5.71E-09	1.3YrCance	5.48E-09	2.20E-10	2.23E-12	1.07E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135 ALL	559517.5	3621773	5.29E-09	1.3YrCance	5.08E-09	2.04E-10	2.06E-12	9.91E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136 ALL	559961.2	3622071	6.36E-09	1.3YrCance	6.11E-09	2.45E-10	2.48E-12	1.19E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137 ALL	560050.6	3622042	6.88E-09	1.3YrCance	6.61E-09	2.65E-10	2.68E-12	1.29E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138 ALL	560421.5	3622723	5.72E-09	1.3YrCance	5.50E-09	2.21E-10	2.23E-12	1.07E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139 ALL	560577.8	3622355	6.70E-09	1.3YrCance	6.44E-09	2.58E-10	2.62E-12	1.26E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140 ALL	560962.3	3622761	6.70E-09	1.3YrCance	6.44E-09	2.58E-10	2.61E-12	1.25E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141 ALL	560827	3622581	6.70E-09	1.3YrCance	6.44E-09	2.58E-10	2.62E-12	1.26E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142 ALL	560754.8	3622637	6.47E-09	1.3YrCance	6.21E-09	2.49E-10	2.52E-12	1.21E-13	0								

179 ALL	559603.3	3613246	1.50E-07	1.3YrCance	1.45E-07	5.79E-09	5.87E-11	2.82E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180 ALL	560294.3	3612892	1.88E-07	1.3YrCance	1.81E-07	7.24E-09	7.33E-11	3.52E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181 ALL	560234.6	3612891	1.77E-07	1.3YrCance	1.70E-07	6.83E-09	6.92E-11	3.32E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182 ALL	560238.8	3612754	1.75E-07	1.3YrCance	1.68E-07	6.73E-09	6.81E-11	3.27E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183 ALL	560316.8	3612766	2.35E-07	1.3YrCance	2.26E-07	9.07E-09	9.19E-11	4.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184 ALL	560317.5	3612661	2.00E-07	1.3YrCance	1.92E-07	7.69E-09	7.79E-11	3.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185 ALL	560251.5	3612651	1.84E-07	1.3YrCance	1.77E-07	7.08E-09	7.17E-11	3.44E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186 ALL	559530.8	3612605	1.57E-07	1.3YrCance	1.50E-07	6.03E-09	6.11E-11	2.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187 ALL	55931.3	3612800	1.35E-07	1.3YrCance	1.29E-07	5.19E-09	5.25E-11	2.52E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188 ALL	559200.5	3612430	1.54E-07	1.3YrCance	1.48E-07	5.92E-09	6.00E-11	2.88E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189 ALL	558849.1	3612551	1.19E-07	1.3YrCance	1.14E-07	4.58E-09	4.64E-11	2.23E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190 ALL	557843.1	3613038	1.34E-07	1.3YrCance	1.29E-07	5.16E-09	5.22E-11	2.51E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191 ALL	557459.7	3613228	1.25E-07	1.3YrCance	1.20E-07	4.81E-09	4.87E-11	2.34E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192 ALL	557855.2	3612844	1.27E-07	1.3YrCance	1.22E-07	4.89E-09	4.96E-11	2.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193 ALL	557650.8	3612794	1.18E-07	1.3YrCance	1.13E-07	4.54E-09	4.59E-11	2.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194 ALL	557237.8	3612860	1.07E-07	1.3YrCance	1.03E-07	4.11E-09	4.16E-11	2.00E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195 ALL	557075	3612792	1.02E-07	1.3YrCance	9.77E-08	3.92E-09	3.97E-11	1.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196 ALL	556960.7	3612648	9.67E-08	1.3YrCance	9.29E-08	3.73E-09	3.77E-11	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197 ALL	557848.5	3612708	1.22E-07	1.3YrCance	1.17E-07	4.70E-09	4.76E-11	2.29E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198 ALL	557845.8	3612515	1.15E-07	1.3YrCance	1.10E-07	4.42E-09	4.47E-11	2.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199 ALL	557718	3612488	1.11E-07	1.3YrCance	1.06E-07	4.27E-09	4.32E-11	2.07E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200 ALL	557279.5	3612793	1.06E-07	1.3YrCance	1.02E-07	4.08E-09	4.13E-11	1.98E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201 ALL	558054.3	3612587	1.23E-07	1.3YrCance	1.18E-07	4.74E-09	4.80E-11	2.30E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202 ALL	557738.2	3612045	9.64E-08	1.3YrCance	9.26E-08	3.71E-09	3.76E-11	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203 ALL	557818.9	3611956	9.41E-08	1.3YrCance	9.04E-08	3.63E-09	3.67E-11	1.76E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204 ALL	558001.9	3611568	1.08E-07	1.3YrCance	1.04E-07	4.18E-09	4.23E-11	2.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205 ALL	558066.4	3611605	1.13E-07	1.3YrCance	1.08E-07	4.35E-09	4.40E-11	2.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206 ALL	558118.9	3611823	1.02E-07	1.3YrCance	9.84E-08	3.94E-09	3.99E-11	1.92E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207 ALL	558303.2	3611500	1.47E-07	1.3YrCance	1.41E-07	5.65E-09	5.72E-11	2.75E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208 ALL	557572.7	3611569	9.06E-08	1.3YrCance	8.71E-08	3.49E-09	3.53E-11	1.70E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209 ALL	557615.3	3611365	9.56E-08	1.3YrCance	9.19E-08	3.68E-09	3.73E-11	1.79E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210 ALL	555468.9	3610394	5.81E-08	1.3YrCance	5.59E-08	2.24E-09	2.27E-11	1.09E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211 ALL	554950.9	3610471	5.47E-08	1.3YrCance	5.26E-08	2.11E-09	2.13E-11	1.02E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212 ALL	555257.4	3610320	5.60E-08	1.3YrCance	5.38E-08	2.16E-09	2.18E-11	1.05E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213 ALL	555624.5	3609956	5.78E-08	1.3YrCance	5.56E-08	2.23E-09	2.26E-11	1.08E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214 ALL	555470.1	3609843	5.65E-08	1.3YrCance	5.43E-08	2.18E-09	2.20E-11	1.06E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215 ALL	555364.9	3609917	5.57E-08	1.3YrCance	5.35E-08	2.15E-09	2.17E-11	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216 ALL	555154.5	3609987	5.37E-08	1.3YrCance	5.17E-08	2.07E-09	2.10E-11	1.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217 ALL	555247.1	3609845	5.41E-08	1.3YrCance	5.19E-08	2.08E-09	2.11E-11	1.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218 ALL	555260.8	3610043	5.49E-08	1.3YrCance	5.27E-08	2.11E-09	2.14E-11	1.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219 ALL	555091.6	3610153	5.39E-08	1.3YrCance	5.18E-08	2.08E-09	2.10E-11	1.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220 ALL	554916.6	3610082	5.26E-08	1.3YrCance	5.05E-08	2.03E-09	2.05E-11	9.84E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221 ALL	555139.6	3610385	5.55E-08	1.3YrCance	5.34E-08	2.14E-09	2.17E-11	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222 ALL	555452.9	3610269	5.71E-08	1.3YrCance	5.49E-08	2.20E-09	2.23E-11	1.07E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223 ALL	554813.7	3610285	5.28E-08	1.3YrCance	5.07E-08	2.03E-09	2.06E-11	9.89E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224 ALL	554775.9	3610128	5.18E-08	1.3YrCance	4.98E-08	2.00E-09	2.02E-11	9.71E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225 ALL	554846.8	3609863	5.12E-08	1.3YrCance	4.93E-08	1.97E-09	2.00E-11	9.60E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226 ALL	554557.5	3610491	5.20E-08	1.3YrCance	5.00E-08	2.00E-09	2.03E-11	9.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227 ALL	554655.7	3610353	5.21E-08	1.3YrCance	5.00E-08	2.01E-09	2.03E-11	9.75E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228 ALL	555351.7	3610215	5.60E-08	1.3YrCance	5.38E-08	2.16E-09	2.18E-11	1.05E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229 ALL	554891	3609668	5.10E-08	1.3YrCance	4.90E-08	1.96E-09	1.99E-11	9.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230 ALL	554865.7	3609823	5.12E-08	1.3YrCance	4.92E-08	1.97E-09	2.00E-11	9.59E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231 ALL	554765.3	3609682	5.02E-08	1.3YrCance	4.82E-08	1.93E-09	1.96E-11	9.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232 ALL	554824.3	3609762	5.07E-08	1.3YrCance	4.88E												

269 ALL	561401.5	3611330	3.00E-08	1.3YrCance	2.88E-08	1.16E-09	1.17E-11	5.62E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270 ALL	561019.2	3611383	4.11E-08	1.3YrCance	3.95E-08	1.58E-09	1.60E-11	7.69E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271 ALL	561346.6	3611240	3.11E-08	1.3YrCance	2.98E-08	1.20E-09	1.21E-11	5.82E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272 ALL	561213.5	3611597	3.72E-08	1.3YrCance	3.58E-08	1.43E-09	1.45E-11	6.97E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273 ALL	561225.9	3611560	3.65E-08	1.3YrCance	3.51E-08	1.41E-09	1.43E-11	6.84E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274 ALL	561220.6	3611051	3.55E-08	1.3YrCance	3.41E-08	1.37E-09	1.38E-11	6.65E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275 ALL	561217.7	3611159	3.97E-08	1.3YrCance	3.82E-08	1.53E-09	1.55E-11	7.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276 ALL	561192.2	3609545	6.11E-08	1.3YrCance	5.87E-08	2.35E-09	2.38E-11	1.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277 ALL	561225.8	3609971	5.28E-08	1.3YrCance	5.07E-08	2.03E-09	2.06E-11	9.88E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278 ALL	561145.1	3609598	6.62E-08	1.3YrCance	6.36E-08	2.55E-09	2.58E-11	1.24E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279 ALL	561013	3610182	4.58E-08	1.3YrCance	4.40E-08	1.77E-09	1.79E-11	8.58E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280 ALL	561766.8	3610660	2.00E-08	1.3YrCance	1.92E-08	7.69E-10	7.79E-12	3.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281 ALL	561091.8	3608150	6.08E-08	1.3YrCance	5.85E-08	2.34E-09	2.37E-11	1.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282 ALL	561444.6	3608279	3.44E-08	1.3YrCance	3.31E-08	1.33E-09	1.34E-11	6.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283 ALL	561689.6	3607766	2.17E-08	1.3YrCance	2.09E-08	8.37E-10	8.48E-12	4.07E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284 ALL	560932.9	3607902	1.10E-07	1.3YrCance	1.06E-07	4.23E-09	4.29E-11	2.06E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285 ALL	560920.8	3608007	1.17E-07	1.3YrCance	1.12E-07	4.49E-09	4.55E-11	2.18E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286 ALL	561058.2	3607797	5.65E-08	1.3YrCance	5.43E-08	2.18E-09	2.20E-11	1.06E-12	0.00E+00	0.00E+00	0.00E+00						

AMPO_CONST_MIT\hra\Campo_ConstCancer_MitHRAInput.hra

HARP2 - HRACalc (dated 17023) 6/26/2019 11:25:06 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.3

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25
0<2 Years Bin: 1.3
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Campo_ConstCancer_MitOutput

Daily breathing rate: LongTerm24HR

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to:

C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_MIT\hra\Campo_ConstCancer_MitCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_MIT\hra\Campo_ConstCancer_MitCancerRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_F	MILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1 ALL		562526.4	3622922	2.68E-07	1.3YrCance	2.67E-07	4.82E-10	4.88E-12	2.35E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2 ALL		562676.8	3622718	3.30E-07	1.3YrCance	3.29E-07	5.95E-10	6.02E-12	2.89E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3 ALL		563011.1	3622513	3.73E-07	1.3YrCance	3.73E-07	6.73E-10	6.81E-12	3.27E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4 ALL		5630297	3622879	3.49E-07	1.3YrCance	3.49E-07	6.30E-10	6.37E-12	3.06E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5 ALL		562994.4	3622153	4.58E-07	1.3YrCance	4.57E-07	8.25E-10	8.35E-12	4.01E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6 ALL		563074.2	3619994	2.09E-06	1.3YrCance	2.09E-06	3.77E-09	3.82E-11	1.83E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7 ALL		564649.8	3618755	9.02E-07	1.3YrCance	9.00E-07	1.63E-09	1.65E-11	7.90E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8 ALL		565274	3618506	5.63E-07	1.3YrCance	5.62E-07	1.01E-09	1.03E-11	4.93E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9 ALL		564668.6	3618324	7.98E-07	1.3YrCance	7.96E-07	1.44E-09	1.46E-11	6.99E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10 ALL		564915.6	3618223	6.49E-07	1.3YrCance	6.47E-07	1.17E-09	1.18E-11	5.68E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11 ALL		565167.9	3618088	5.41E-07	1.3YrCance	5.40E-07	9.75E-10	9.87E-12	4.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12 ALL		565310.2	3618062	5.02E-07	1.3YrCance	5.01E-07	9.05E-10	9.16E-12	4.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13 ALL		564753.1	3618020	6.59E-07	1.3YrCance	6.57E-07	1.19E-09	1.20E-11	5.77E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14 ALL		564687.4	3617912	6.55E-07	1.3YrCance	6.54E-07	1.18E-09	1.20E-11	5.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15 ALL		564895.4	3617819	5.71E-07	1.3YrCance	5.70E-07	1.03E-09	1.04E-11	5.00E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16 ALL		564753.7	3617774	5.70E-07	1.3YrCance	5.69E-07	1.03E-09	1.04E-11	4.99E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17 ALL		565102.6	3616583	4.00E-07	1.3YrCance	4.00E-07	7.21E-10	7.30E-12	3.51E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18 ALL		564942	3616644	4.23E-07	1.3YrCance	4.22E-07	7.62E-10	7.72E-12	3.70E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19 ALL		564931.4	3616752	4.29E-07	1.3YrCance	4.28E-07	7.73E-10	7.83E-12	3.76E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20 ALL		564564.5	3616569	4.77E-07	1.3YrCance	4.76E-07	8.60E-10	8.70E-12	4.18E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21 ALL		564664	3616542	4.60E-07	1.3YrCance	4.59E-07	8.29E-10	8.39E-12	4.03E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22 ALL		564432.8	3616542	4.92E-07	1.3YrCance	4.91E-07	8.86E-10	8.97E-12	4.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23 ALL		563387.5	3616999	2.25E-06	1.3YrCance	2.25E-06	4.06E-09	4.11E-11	1.97E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24 ALL		563525.2	3616610	7.21E-07	1.3YrCance	7.20E-07	1.30E-09	1.32E-11	6.32E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25 ALL		563134.8	3616687	1.39E-06	1.3YrCance	1.38E-06	2.50E-09	2.53E-11	1.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26 ALL		563339.7	3616758	1.10E-06	1.3YrCance	1.10E-06	1.99E-09	2.02E-11	9.68E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27 ALL		563753.8	3616971	7.32E-07	1.3YrCance	7.31E-07	1.32E-09	1.34E-11	6.42E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28 ALL		563585.2	3616424	6.25E-07	1.3YrCance	6.24E-07	1.13E-09	1.14E-11	5.48E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29 ALL		562975.6	3616672	1.62E-06	1.3YrCance	1.62E-06	2.92E-09	2.96E-11	1.42E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30 ALL		563158	3616514	9.76E-07	1.3YrCance	9.74E-07	1.76E-09	1.78E-11	8.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31 ALL		563083.3	3616508	1.07E-06	1.3YrCance	1.07E-06	1.93E-09	1.96E-11	9.40E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32 ALL		563012.4	3616476	1.13E-06	1.3YrCance	1.12E-06	2.03E-09	2.05E-11	9.86E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33 ALL		562997.9	3616412	1.05E-06	1.3YrCance	1.05E-06	1.90E-09	1.92E-11	9.21E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34 ALL		562978.5	3616317	9.76E-07	1.3YrCance	9.74E-07	1.76E-09	1.78E-11	8.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35 ALL		563178.4	3616326	7.87E-07	1.3YrCance	7.86E-07	1.42E-09	1.44E-11	6.90E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36 ALL		562915.4	3616311	1.05E-06	1.3YrCance	1.05E-06	1.89E-09	1.91E-11	9.19E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37 ALL		563072.6	3616217	8.11E-07	1.3YrCance	8.09E-07	1.46E-09	1.48E-11	7.10E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38 ALL		562805.8	3616479	1.38E-06	1.3YrCance	1.38E-06	2.49E-09	2.52E-11	1.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39 ALL		562786.4	3616406	1.29E-06	1.3YrCance	1.28E-06	2.32E-09	2.35E-11	1.13E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40 ALL		562721.4	3616347	1.31E-06	1.3YrCance	1.30E-06	2.35E-09	2.38E-11	1.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41 ALL		562650.5	3617499	3.40E-06	1.3YrCance	3.39E-06	6.13E-09	6.20E-11	2.98E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42 ALL		562077	3616996	3.03E-06	1.3YrCance	3.02E-06	5.45E-09	5.52E-11	2.65E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43 ALL		562127	3616996	2.91E-06	1.3YrCance	2.90E-06	5.24E-09	5.31E-11	2.55E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44 ALL		562227	3617021	2.75E-06	1.3YrCance	2.74E-06	4.95E-09	5.01E-11	2.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45 ALL		562427	3617021	2.49E-06	1.3YrCance	2.48E-06	4.48E-09	4.54E-11	2.18E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46 ALL		562427	3617046	2.53E-06	1.3YrCance	2.53E-06	4.57E-09	4.62E-11	2.22E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47 ALL		562452	3617046	2.51E-06	1.3YrCance	2.51E-06	4.52E-09	4.58E-11	2.20E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48 ALL		562177	3617071	3.04E-06	1.3YrCance	3.03E-06	5.47E-09	5.54E-11	2.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49 ALL		562252	3617071	2.85E-06	1.3YrCance	2.85E-06	5.14E-09	5.21E-11	2.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50 ALL		562427	3617071	2.59E-06	1.3YrCance	2.58E-06	4.66E-09	4.72E-11	2.26E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51 ALL		562227	3617096	3.02E-06	1.3YrCance	3.01E-06	5.44E-09	5.51E-11	2.64E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52 ALL		562427	3617096	2.64E-06	1.3YrCance	2.63E-06												

89	ALL	562552	3617271	2.92E-06	1.3YrCance	2.92E-06	5.27E-09	5.34E-11	2.56E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	562202	3617296	4.71E-06	1.3YrCance	4.71E-06	8.49E-09	8.60E-11	4.13E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	562352	3617296	3.76E-06	1.3YrCance	3.76E-06	6.78E-09	6.87E-11	3.30E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	562427	3617296	3.31E-06	1.3YrCance	3.30E-06	5.96E-09	6.03E-11	2.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	562477	3617296	3.15E-06	1.3YrCance	3.15E-06	5.68E-09	5.75E-11	2.76E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	562502	3617296	3.09E-06	1.3YrCance	3.09E-06	5.58E-09	5.65E-11	2.71E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	562527	3617296	3.04E-06	1.3YrCance	3.04E-06	5.49E-09	5.56E-11	2.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	562377	3617321	3.82E-06	1.3YrCance	3.81E-06	6.88E-09	6.97E-11	3.34E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	562427	3617321	3.45E-06	1.3YrCance	3.45E-06	6.22E-09	6.30E-11	3.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	562477	3617321	3.26E-06	1.3YrCance	3.25E-06	5.87E-09	5.94E-11	2.85E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	562502	3617321	3.19E-06	1.3YrCance	3.19E-06	5.75E-09	5.82E-11	2.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	562527	3617321	3.12E-06	1.3YrCance	3.12E-06	5.63E-09	5.70E-11	2.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	562552	3617321	3.07E-06	1.3YrCance	3.06E-06	5.53E-09	5.60E-11	2.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	562227	3617346	5.36E-06	1.3YrCance	5.35E-06	9.66E-09	9.78E-11	4.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	562477	3617346	3.38E-06	1.3YrCance	3.37E-06	6.09E-09	6.16E-11	2.96E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	562502	3617346	3.30E-06	1.3YrCance	3.30E-06	5.95E-09	6.03E-11	2.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	562402	3617371	4.48E-06	1.3YrCance	4.47E-06	8.08E-09	8.18E-11	3.92E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	562502	3617371	3.42E-06	1.3YrCance	3.41E-06	6.17E-09	6.24E-11	3.00E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	561789.9	3617208	4.18E-06	1.3YrCance	4.17E-06	7.53E-09	7.62E-11	3.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	561800.6	3617014	3.71E-06	1.3YrCance	3.70E-06	6.68E-09	6.76E-11	3.25E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	561861.6	3617005	3.59E-06	1.3YrCance	3.58E-06	6.47E-09	6.55E-11	3.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	561406.2	3617449	5.59E-06	1.3YrCance	5.58E-06	1.01E-08	1.02E-10	4.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	560619.1	3617643	1.98E-06	1.3YrCance	1.98E-06	3.57E-09	3.62E-11	1.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	560410.3	3617967	1.57E-06	1.3YrCance	1.57E-06	2.83E-09	2.87E-11	1.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	560323.2	3617887	1.65E-06	1.3YrCance	1.65E-06	2.98E-09	3.01E-11	1.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	559676.9	3617557	1.61E-06	1.3YrCance	1.61E-06	2.90E-09	2.94E-11	1.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	559716.2	3617484	1.65E-06	1.3YrCance	1.65E-06	2.97E-09	3.01E-11	1.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	559685.4	3618739	2.80E-06	1.3YrCance	2.79E-06	5.04E-09	5.11E-11	2.45E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	559662.2	3618710	2.71E-06	1.3YrCance	2.71E-06	4.89E-09	4.95E-11	2.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	559644	3618755	2.86E-06	1.3YrCance	2.86E-06	5.16E-09	5.23E-11	2.51E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	559492.5	3618495	2.23E-06	1.3YrCance	2.23E-06	4.02E-09	4.07E-11	1.95E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	559552.1	3618466	2.20E-06	1.3YrCance	2.20E-06	3.97E-09	4.02E-11	1.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	559266	3618270	1.91E-06	1.3YrCance	1.90E-06	3.44E-09	3.48E-11	1.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	559270.9	3618358	2.00E-06	1.3YrCance	2.00E-06	3.61E-09	3.65E-11	1.75E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	559528.3	3618071	1.71E-06	1.3YrCance	1.71E-06	3.09E-09	3.13E-11	1.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	559729.6	3617998	1.61E-06	1.3YrCance	1.61E-06	2.91E-09	2.95E-11	1.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	559907.1	3619726	5.52E-06	1.3YrCance	5.51E-06	9.95E-09	1.01E-10	4.84E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	560055.5	3619585	3.02E-06	1.3YrCance	3.01E-06	5.44E-09	5.51E-11	2.64E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	559975	3619544	3.72E-06	1.3YrCance	3.71E-06	6.70E-09	6.78E-11	3.26E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	559699.2	3620732	3.28E-07	1.3YrCance	3.27E-07	5.90E-10	5.98E-12	2.87E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	559569.9	3621314	1.31E-07	1.3YrCance	1.31E-07	2.37E-10	2.40E-12	1.15E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	559424.8	3621633	1.08E-07	1.3YrCance	1.08E-07	1.94E-10	1.97E-12	9.43E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	559622.4	3621590	1.29E-07	1.3YrCance	1.29E-07	2.32E-10	2.35E-12	1.13E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	559597.3	3621541	1.28E-07	1.3YrCance	1.28E-07	2.30E-10	2.33E-12	1.12E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	559477.7	3621971	1.09E-07	1.3YrCance	1.09E-07	1.96E-10	1.99E-12	9.53E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	559561.2	3622131	1.22E-07	1.3YrCance	1.22E-07	2.20E-10	2.23E-12	1.07E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	559517.5	3621773	1.13E-07	1.3YrCance	1.13E-07	2.04E-10	2.06E-12	9.91E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	559961.2	3622071	1.36E-07	1.3YrCance	1.36E-07	2.45E-10	2.48E-12	1.19E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	560050.6	3622042	1.47E-07	1.3YrCance	1.47E-07	2.65E-10	2.68E-12	1.29E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	560421.5	3622723	1.22E-07	1.3YrCance	1.22E-07	2.21E-10	2.23E-12	1.07E-13	0.00E+00	0.00E+00	0.00E+00	0						

179 ALL	559603.3	3613246	3.21E-06 1.3YrCance	3.21E-06	5.79E-09	5.87E-11	2.82E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180 ALL	560294.3	3612892	4.02E-06 1.3YrCance	4.01E-06	7.24E-09	7.33E-11	3.52E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181 ALL	560234.6	3612891	3.79E-06 1.3YrCance	3.79E-06	6.83E-09	6.92E-11	3.32E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182 ALL	560238.8	3612754	3.73E-06 1.3YrCance	3.73E-06	6.73E-09	6.81E-11	3.27E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183 ALL	560316.8	3612766	5.03E-06 1.3YrCance	5.03E-06	9.07E-09	9.19E-11	4.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184 ALL	560317.5	3612661	4.27E-06 1.3YrCance	4.26E-06	7.69E-09	7.79E-11	3.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185 ALL	560251.5	3612651	3.93E-06 1.3YrCance	3.92E-06	7.08E-09	7.17E-11	3.44E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186 ALL	559530.8	3612605	3.35E-06 1.3YrCance	3.34E-06	6.03E-09	6.11E-11	2.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187 ALL	55931.3	3612800	2.88E-06 1.3YrCance	2.87E-06	5.19E-09	5.25E-11	2.52E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188 ALL	559200.5	3612430	3.29E-06 1.3YrCance	3.28E-06	5.92E-09	6.00E-11	2.88E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189 ALL	558849.1	3612551	2.54E-06 1.3YrCance	2.54E-06	4.58E-09	4.64E-11	2.23E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190 ALL	557843.1	3613038	2.86E-06 1.3YrCance	2.86E-06	5.16E-09	5.22E-11	2.51E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191 ALL	557459.7	3613228	2.67E-06 1.3YrCance	2.66E-06	4.81E-09	4.87E-11	2.34E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192 ALL	557855.2	3612844	2.72E-06 1.3YrCance	2.71E-06	4.89E-09	4.96E-11	2.38E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193 ALL	557650.8	3612794	2.52E-06 1.3YrCance	2.51E-06	4.54E-09	4.59E-11	2.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194 ALL	557237.8	3612860	2.28E-06 1.3YrCance	2.28E-06	4.11E-09	4.16E-11	2.00E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195 ALL	557075	3612792	2.17E-06 1.3YrCance	2.17E-06	3.92E-09	3.97E-11	1.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196 ALL	556960.7	3612648	2.07E-06 1.3YrCance	2.06E-06	3.73E-09	3.77E-11	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197 ALL	557848.5	3612708	2.61E-06 1.3YrCance	2.60E-06	4.70E-09	4.76E-11	2.29E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198 ALL	557845.8	3612515	2.45E-06 1.3YrCance	2.45E-06	4.42E-09	4.47E-11	2.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199 ALL	557718	3612488	2.37E-06 1.3YrCance	2.36E-06	4.27E-09	4.32E-11	2.07E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200 ALL	557279.5	3612793	2.27E-06 1.3YrCance	2.26E-06	4.08E-09	4.13E-11	1.98E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201 ALL	558054.3	3612587	2.63E-06 1.3YrCance	2.63E-06	4.74E-09	4.80E-11	2.30E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202 ALL	557738.2	3612045	2.06E-06 1.3YrCance	2.06E-06	3.71E-09	3.76E-11	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203 ALL	557818.9	3611956	2.01E-06 1.3YrCance	2.01E-06	3.63E-09	3.67E-11	1.76E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204 ALL	558001.9	3611568	2.32E-06 1.3YrCance	2.32E-06	4.18E-09	4.23E-11	2.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205 ALL	558066.4	3611605	2.41E-06 1.3YrCance	2.41E-06	4.35E-09	4.40E-11	2.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206 ALL	558118.9	3611823	2.19E-06 1.3YrCance	2.18E-06	3.94E-09	3.99E-11	1.92E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207 ALL	558303.2	3611500	3.14E-06 1.3YrCance	3.13E-06	5.65E-09	5.72E-11	2.75E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208 ALL	557572.7	3611569	1.94E-06 1.3YrCance	1.93E-06	3.49E-09	3.53E-11	1.70E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209 ALL	557615.3	3611365	2.04E-06 1.3YrCance	2.04E-06	3.68E-09	3.73E-11	1.79E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210 ALL	555468.9	3610394	1.24E-06 1.3YrCance	1.24E-06	2.24E-09	2.27E-11	1.09E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211 ALL	554950.9	3610471	1.17E-06 1.3YrCance	1.17E-06	2.11E-09	2.13E-11	1.02E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212 ALL	555257.4	3610320	1.20E-06 1.3YrCance	1.19E-06	2.16E-09	2.18E-11	1.05E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213 ALL	555624.5	3609956	1.24E-06 1.3YrCance	1.23E-06	2.23E-09	2.26E-11	1.08E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214 ALL	555470.1	3609843	1.21E-06 1.3YrCance	1.21E-06	2.18E-09	2.20E-11	1.06E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215 ALL	555364.9	3609917	1.19E-06 1.3YrCance	1.19E-06	2.15E-09	2.17E-11	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216 ALL	555154.5	3609987	1.15E-06 1.3YrCance	1.15E-06	2.07E-09	2.10E-11	1.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217 ALL	555247.1	3609845	1.16E-06 1.3YrCance	1.15E-06	2.08E-09	2.11E-11	1.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218 ALL	555260.8	3610043	1.17E-06 1.3YrCance	1.17E-06	2.11E-09	2.14E-11	1.03E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219 ALL	555091.6	3610153	1.15E-06 1.3YrCance	1.15E-06	2.08E-09	2.10E-11	1.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220 ALL	554916.6	3610082	1.12E-06 1.3YrCance	1.12E-06	2.03E-09	2.05E-11	9.84E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221 ALL	555139.6	3610385	1.19E-06 1.3YrCance	1.18E-06	2.14E-09	2.17E-11	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222 ALL	555452.9	3610269	1.22E-06 1.3YrCance	1.22E-06	2.20E-09	2.23E-11	1.07E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223 ALL	554813.7	3610285	1.13E-06 1.3YrCance	1.13E-06	2.03E-09	2.06E-11	9.89E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224 ALL	554775.9	3610128	1.11E-06 1.3YrCance	1.11E-06	2.00E-09	2.02E-11	9.71E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225 ALL	554846.8	3609863	1.10E-06 1.3YrCance	1.09E-06	1.97E-09	2.00E-11	9.60E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226 ALL	554557.5	3610491	1.11E-06 1.3YrCance	1.11E-06	2.00E-09	2.03E-11	9.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227 ALL	554655.7	3610353	1.11E-06 1.3YrCance	1.11E-06	2.01E-09	2.03E-11	9.75E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228 ALL	555351.7	3610215	1.20E-06 1.3YrCance	1.20E-06	2.16E-09	2.18E-11	1.05E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229 ALL	554891	3609668	1.09E-06 1.3YrCance	1.09E-06	1.96E-09	1.99E-11	9.55E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230 ALL	554865.7	3609823	1.09E-06 1.3YrCance	1.09E-06	1												

269 ALL	561401.5	3611330	6.41E-07	1.3YrCance	6.40E-07	1.16E-09	1.17E-11	5.62E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270 ALL	561019.2	3611383	8.78E-07	1.3YrCance	8.76E-07	1.58E-09	1.60E-11	7.69E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271 ALL	561346.6	3611240	6.64E-07	1.3YrCance	6.63E-07	1.20E-09	1.21E-11	5.82E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272 ALL	561213.5	3611597	7.95E-07	1.3YrCance	7.94E-07	1.43E-09	1.45E-11	6.97E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273 ALL	561225.9	3611560	7.81E-07	1.3YrCance	7.80E-07	1.41E-09	1.43E-11	6.84E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274 ALL	561220.6	3611051	7.59E-07	1.3YrCance	7.57E-07	1.37E-09	1.38E-11	6.65E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275 ALL	5612127.7	3611159	8.49E-07	1.3YrCance	8.48E-07	1.53E-09	1.55E-11	7.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276 ALL	561192.2	3609545	1.31E-06	1.3YrCance	1.30E-06	2.35E-09	2.38E-11	1.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277 ALL	561225.8	3609971	1.13E-06	1.3YrCance	1.13E-06	2.03E-09	2.06E-11	9.88E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278 ALL	561141.5	3609598	1.41E-06	1.3YrCance	1.41E-06	2.55E-09	2.58E-11	1.24E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279 ALL	561013	3610182	9.80E-07	1.3YrCance	9.78E-07	1.77E-09	1.79E-11	8.58E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280 ALL	561766.8	3610660	4.27E-07	1.3YrCance	4.26E-07	7.69E-10	7.79E-12	3.74E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281 ALL	561091.8	3608150	1.30E-06	1.3YrCance	1.30E-06	2.34E-09	2.37E-11	1.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282 ALL	561444.6	3608279	7.36E-07	1.3YrCance	7.34E-07	1.33E-09	1.34E-11	6.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283 ALL	561689.6	3607766	4.65E-07	1.3YrCance	4.64E-07	8.37E-10	8.48E-12	4.07E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284 ALL	560932.9	3607902	2.35E-06	1.3YrCance	2.35E-06	4.23E-09	4.29E-11	2.06E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285 ALL	560920.8	3608007	2.49E-06	1.3YrCance	2.49E-06	4.49E-09	4.55E-11	2.18E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286 ALL	561058.2	3607797	1.21E-06	1.3YrCance	1.21E-06	2.18E-09	2.20E-11	1.06E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287 ALL	561121.4	3607550	7.19E-07	1.3YrCance	7.18E-07	1.30E-09	1.31E-11	6.30E-13	0.00E+00	0.00E+00	0.00E+00					

AMPO_CONST_UNMIT\hra\Campo_ConstCancer_UnmitHRAInput.hra

HARP2 - HRACalc (dated 17023) 6/26/2019 11:19:54 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.3

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25
0<2 Years Bin: 1.3
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Campo_ConstCancer_UnmitOutput

Daily breathing rate: LongTerm24HR

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Mixed

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to:

C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\Campo_ConstCancer_UnmitCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10212 San Diego Wind\10212.0013 Campo Wind\UPDATED JUNE 2019

ANALYSIS\HRA\HARP2\CAMPO_CONST_UNMIT\hra\Campo_ConstCancer_UnmitCancerRiskSumByRec.csv

HRA ran successfully

APPENDIX C

County of San Diego Climate Action Plan Consistency Checklist



Permit Number: _____

COUNTY OF SAN DIEGO
LAND USE AND ENVIRONMENT GROUP
Department of Planning & Development Services

Appendix A: Final Climate Action Plan

Consistency Review Checklist

Introduction

The County of San Diego (County) Climate Action Plan (CAP), adopted by the Board of Supervisors on February 14, 2018, outlines actions that the County will undertake to meet its greenhouse gas (GHG) emissions reduction targets. Implementation of the CAP will require that new development projects incorporate more sustainable design standards and implement applicable reduction measures consistent with the CAP. To help plan and design projects consistent with the CAP, and to assist County staff in implementing the CAP and determining the consistency of proposed projects with the CAP during development review, the County has prepared a CAP Consistency Review Checklist (Checklist). This Checklist, in conjunction with the CAP, provides a streamlined review process for proposed discretionary projects that require environmental review pursuant to the California Environmental Quality Act (CEQA). Please refer to the County's Guidelines for Determining Significance for Climate Change (Guidelines) for more information on GHG emissions, climate change impact requirements, thresholds of significance, and compliance with CEQA Guidelines Section 15183.5.

The purpose of this Checklist is to implement GHG reduction measures from the CAP that apply to new development projects. The CAP presents the County's comprehensive strategy to reduce GHG emissions to meet its reduction targets. These reductions will be achieved through a combination of County initiatives and reduction actions for both existing and new development. Reduction actions that apply to existing and new development will be implemented through a combination of mandatory requirements and incentives. This Checklist specifically applies to proposed discretionary projects that require environmental review pursuant to CEQA. Therefore, the Checklist represents one implementation tool in the County's overall strategy to implement the CAP. Implementation of measures that do not apply to new development projects will occur through the implementation mechanisms identified in Chapter 5 of the CAP. Implementation of applicable reduction measures in new development projects will help the County achieve incremental reductions towards its targets, with additional reductions occurring through County initiatives and measures related to existing development that are implemented outside of the Checklist process.

The Checklist follows a two-step process to determine if projects are consistent with the CAP and whether they may have a significant cumulative impact under the County's adopted GHG thresholds of significance. The Checklist first assesses a project's consistency with the growth projections and land use assumptions that formed the basis of CAP emissions projections. If a project is consistent with the projections and land use assumptions in the CAP, its associated growth in terms of GHG emissions would have been accounted for in the CAP's projections and project implementation of the CAP reduction measures will contribute towards reducing the County's emissions and meeting the County's reduction targets. Projects that include a land use plan and/or zoning designation amendment that would result in an equivalent or less GHG-intensive project

when compared to existing designation, would also be within the projections assumed in the CAP. Projects responding in the affirmative to Step 1 questions can move forward to Step 2 of the Checklist. If a land use and/or zoning designation amendment results in a more GHG-intensive project, the project is required to demonstrate consistency with applicable CAP measures and offset the increase in emissions as described in the Guidelines. Step 2 of the Checklist contains the CAP GHG reduction measures that projects are required to implement to ensure compliance with the CAP. Implementation of these measures would ensure that new development is consistent with relevant CAP strategies and measures and will contribute towards achieving the identified GHG reduction targets. Projects that are consistent with the CAP, as determined using this Checklist, may rely on the CAP for the cumulative impacts analysis of GHG emissions under CEQA.

A project's incremental contribution to cumulative GHG emissions may be determined to not be cumulatively considerable if it is determined to be consistent with the CAP. As specified in the CEQA Guidelines, the mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the project's incremental effects are "cumulatively considerable" (CCR, Title 14, Division 6, Chapter 3, Section 15064[h][4]). Projects requiring discretionary review that cannot demonstrate consistency with the CAP using this Checklist may have a cumulatively considerable contribution to a significant cumulative impact and would be required to prepare a separate, more detailed project-level GHG analysis as part of the CEQA document prepared for the project.

Checklist Applicability

This Checklist only applies to development projects that require discretionary review and are subject to environmental review (i.e., not statutorily or categorically exempt projects) pursuant to CEQA. Projects that are limited to ministerial review and approval (e.g., only building permits) would not be subject to the Checklist. The CAP contains other measures that, when implemented, would apply broadly to all ministerial and discretionary projects. These measures are included for discretionary projects in this Checklist, but could also apply more broadly once the County takes action to codify specific requirements or standards.

Checklist Procedures

General procedures for Checklist compliance and review are described below. Specific guidance is also provided under each of the questions under Steps 1 and 2 of the Checklist in subsequent pages.

1. The County's Department of Planning & Development Services (PDS) reviews development applications and makes determinations regarding environmental review requirements under CEQA. Procedures for CEQA can be found on the County's [Process Guidance & Regulations/Statutes Homepage](#). The Director of PDS will determine whether environmental review is required, and if so, whether completion of the CAP Checklist is required for a proposed project or whether a separate project-level GHG analysis is required.
2. The specific applicable requirements outlined in the Checklist shall be required as a condition of project approval.
3. The project must provide substantial evidence that demonstrates how the proposed project will implement each applicable Checklist requirement described herein to the satisfaction of the Director of PDS.
4. If a question in the Checklist is deemed not applicable (N/A) to a project, substantial evidence shall be provided to the satisfaction of the Director of PDS demonstrating why the Checklist item is not applicable. Feasibility of reduction measures for new projects was assessed in development of the

CAP and measures determined to be feasible were incorporated into the Checklist. Therefore, it is expected that projects would have the ability to comply with all applicable Checklist measures.

5. Development projects requiring discretionary review that cannot demonstrate consistency with the CAP using this Checklist shall prepare a separate, project-level GHG analysis as part of the CEQA document prepared for the project and may be required to prepare an Environmental Impact Report (EIR). Guidance for project-specific GHG Technical Reports is outlined in the Report Format and Content Requirements for Climate Change document, provided under separate cover. The Report Format and Content Requirements document provides guidance on the outline and content of GHG analyses for discretionary projects processed by PDS that cannot show compliance with the CAP Checklist.

Checklist Updates

The Guidelines and Checklist may be administratively updated by the County from time to time to comply with amendments to State laws or court directives, or to remove measures that may become mandatory through future updates to State or local codes. Administrative revisions to the Guidelines and Checklist will be limited to changes that do not trigger a subsequent EIR or a supplement to the SEIR for the CAP pursuant to CEQA Guidelines Section 15162. Administrative revisions, as described above, will not require approval by the Board of Supervisors (Board). All other changes to the Guidelines and Checklist require Board approval.

Comprehensive updates to the Guidelines and Checklist will be coordinated with each CAP update (i.e., every five years beginning in 2025) and would require Board approval. Future updates of the CAP, Guidelines, and Checklist shall comply with CEQA.

Application Information

Contact Information

Project No. and Name:

Campo Wind Project with Boulder Brush Facilities

Property Address and APN:

529-090-02; 529-100-02; 529-060-01; 529-100-03; 529-120-03; 529-130-01; 529-050-01; 611-010-01; 611-010-02; 611-010-03; 611-020-01; 611-050-05

Applicant Name and Co.:

Terra-Gen Development Company, LLC

Contact Phone:

8587643740

Contact Email:

kwagner@terra-gen.com

Was a consultant retained to complete this checklist? ☒ Yes ☐ No

If Yes, complete the following:

Consultant Name:

Samantha Wang

Contact

Phone:

7603306807

Company Name:

Dudek

Contact Email:

swang@dudek.com

Project Information

1. What is the size of the project site (acres [gross and net])?

2,700

2. Identify all applicable proposed land uses (indicate square footage [gross and net]):

☐ Residential (indicate # of single-family dwelling units):

☐ Residential (indicate # of multi-family dwelling units):

☐ Commercial (indicate total square footage [gross and net]):

☐ Industrial (indicate total square footage [gross and net]):

☐ Agricultural (indicate total acreage [gross and net]):

☒ Other (describe):

252 megawatts renewable wind energy facility

3. Provide a description of the project proposed. This description should match the project description used for the CEQA document. The description may be attached to the Checklist if there are space constraints.

See attachment.

CAP Consistency Checklist Questions

Step 1: Land Use Consistency

For projects that are subject to CAP consistency review, the first step in determining consistency is to assess the project's consistency with the growth projections used in the development of the CAP. This section allows the County to determine a project's consistency with the land use assumptions used in the CAP.

Step 1: Land Use Consistency		
Checklist Item (Check the appropriate box and provide explanation and supporting documentation for your answer)	Yes	No
<p>1. Is the proposed project consistent with the existing General Plan regional category, land use designations, and zoning designations?</p> <p style="margin-left: 20px;">If "Yes," provide substantiation below and then proceed to Step 2 (CAP Measures Consistency) of the Checklist.</p> <p style="margin-left: 20px;">If "No," proceed to question 2 below.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>Project Detail: Please substantiate how the project satisfies question 1.</p> <hr/> <hr/> <hr/> <hr/> <hr/>		
<p>2. Does the project include a land use element and/or zoning designation amendment that would result in an equivalent or less GHG-intensive project when compared to the existing designations?</p> <p style="margin-left: 20px;">If "Yes," the project must provide estimated project GHG emissions under both existing and proposed designation(s) for comparison to substantiate the response and proceed to Step 2 (CAP Measures Consistency) of the Checklist.</p> <p style="margin-left: 20px;">If "No," (i.e., the project proposes an increase in density or intensity above that which is allowed under existing General Plan designations and consequently would not result in an equivalent or less GHG-intensive project when compared to the existing designations), the project must prepare a separate, more detailed project-level GHG analysis. As outlined in the County's Guidelines for Determining Significance for Climate Change and Report Format and Content Requirements for Climate Change, this analysis must demonstrate how the project would offset the increase in GHG emissions over the existing designations or baseline conditions. The project must also incorporate each of the CAP measures identified in Step 2 to mitigate cumulative GHG emissions impacts. Proceed and complete a separate project-specific GHG analysis and Step 2 of the Checklist. Refer to Section 4 of the County's Guidelines for procedures on analyzing General Plan Amendments.</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Project Detail: Please substantiate how the project satisfies question 2.</p> <hr/> <hr/> <hr/> <hr/> <hr/>		

Step 2: CAP Measures Consistency

The second step of the CAP consistency review is to review and evaluate a project's consistency with the applicable measures of the CAP. Each checklist item is associated with a specific GHG reduction measure(s) in the County CAP.

Step 2: CAP Measures Consistency				
Checklist Item (Check the appropriate box and provide an explanation for your answer)	CAP Measure	Yes	No	N/A
Step 2A: Project Operations (All projects with an operational component must fill out this portion of the Checklist)				
Reducing Vehicle Miles Traveled				
<p>1a. Reducing Vehicle Miles Traveled</p> <p><u>Non-Residential:</u> For non-residential projects with anticipated tenant-occupants of 25 or more, will the project achieve a 15% reduction in emissions from commute vehicle miles traveled (VMT), and commit to monitoring and reporting results to demonstrate on-going compliance? VMT reduction may be achieved through a combination of Transportation Demand Management (TDM) and parking strategies, as long as the 15% reduction can be substantiated.</p> <p>VMT reduction actions though TDM may include, but are not limited to:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Telecommuting <input type="checkbox"/> Car Sharing <input type="checkbox"/> Shuttle Service <input type="checkbox"/> Carpools <input type="checkbox"/> Vanpools <input type="checkbox"/> Bicycle Parking Facilities <input type="checkbox"/> Transit Subsidies <p>Shared and reduced parking strategies may include, but are not limited to:¹</p> <ul style="list-style-type: none"> <input type="checkbox"/> Shared parking facilities <input type="checkbox"/> Carpool/vanpool-only parking spaces <input type="checkbox"/> Shuttle facilities <input type="checkbox"/> Electric Vehicle-only parking spaces <p>The project may incorporate the measures listed above, and propose additional trip reduction measures, as long as a 15% reduction in emissions from commute VMT can be demonstrated through substantial evidence.</p> <p>Check "N/A" if the project is a residential project or if the project would not accommodate more than 25 tenant-occupants.</p>	T-2.2 and T-2.4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>1b. Project Detail:</p> <p>Please substantiate how the project satisfies question 1a.</p> <p>The Project would employ 12 persons, and thus would not accommodate 25 or more tenant occupants.</p> <hr/> <hr/> <hr/> <hr/>				

¹ Reduction actions and strategies under 1a may be used to achieve a 10% reduction in emissions from commute VMT under 2a

Step 2: CAP Measures Consistency

Step 2: CAP Measures Consistency				
Checklist Item (Check the appropriate box and provide an explanation for your answer)	CAP Measure	Yes	No	N/A
Shared and Reduced Parking				
<p>2a. Shared and Reduced Parking</p> <p><u>Non-Residential:</u> For non-residential projects with anticipated tenant-occupants of 24 or less, will the project implement shared and reduced parking strategies that achieves a 10% reduction in emissions from commute VMT?</p> <p>Shared and reduced parking strategies may include, but are not limited to:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Shared parking facilities <input type="checkbox"/> Carpool/vanpool-only parking spaces <input type="checkbox"/> Shuttle facilities <input type="checkbox"/> Electric Vehicle-only parking spaces <p>Check "N/A" if the project is a residential project or if the project would accommodate 25 or more tenant-occupants.</p>	T-2.4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>2b. Project Detail:</p> <p>Please substantiate how the project satisfies question 2a.</p> <p>As a renewable energy development project, the Project is not a typical commercial or retail development that would have tenants with different schedules that can share parking spaces or include substantial parking supply. Employee trips would only be related to operation and maintenance activities associated with operation of the wind facility. Carpooling will be encouraged to the extent practical to reduce VMT during operation and the Project's parking spaces would not exceed County's code requirements.</p> <hr/> <hr/> <hr/>				
Water Heating Systems				
<p>3a. Electric or Alternatively-Fueled Water Heating Systems</p> <p><u>Residential:</u> For projects that include residential construction, will the project, as a condition of approval, install the following types of electric or alternatively-fueled water heating system(s)? Please check which types of system(s) will be installed:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Solar thermal water heater <input type="checkbox"/> Tankless electric water heater <input type="checkbox"/> Storage electric water heaters <input type="checkbox"/> Electric heat pump water heater <input type="checkbox"/> Tankless gas water heater <input type="checkbox"/> Other <p>Check "N/A" if the project does not contain any residential buildings.</p>	E-1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>3b. Project Detail:</p> <p>Please substantiate how the project satisfies question 3a.</p> <p>The Project does not include a residential component.</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>				

Step 2: CAP Measures Consistency

Checklist Item (Check the appropriate box and provide an explanation for your answer)	CAP Measure	Yes	No	N/A
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Water-Efficient Appliances and Plumbing Fixtures

4a. Water Efficient Appliances and Plumbing Fixtures

Residential: For new residential projects, will the project comply with all of the following water efficiency and conservation BMPs²?

- ☐ Kitchen Faucets: The maximum flow rate of kitchen faucets shall not exceed 1.5 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.5 gallons per minute at 60 psi³.
- ☐ Energy Efficient Appliances: Install at least one qualified ENERGY STAR dishwasher or clothes washer per unit.

W-1.1

☐
☐
☒

Check "N/A" if the project is a non-residential project.

4b. Project Detail:

Please substantiate how the project satisfies question 4a.

The Project does not include a residential component.

Rain Barrel Installations

5a. Rain Barrel Installations

Residential: For new residential projects, will the project make use of incentives to install one rain barrel per every 500 square feet of available roof area?

W-2.1

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Check "N/A" if the project is a non-residential project; if State, regional or local incentives/rebates to purchase rain barrels are not available; or if funding for programs/rebates has been exhausted.

5b. Project Detail:

Please substantiate how the project satisfies question 5a.

The Project does not include a residential component.

² CALGreen Tier 1 residential voluntary measure A4.303 of the [California Green Building Standards Code](#).

³ Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

Step 2: CAP Measures Consistency

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Checklist Item (Check the appropriate box and provide an explanation for your answer)	CAP Measure	Yes	No	N/A
Reduce Outdoor Water Use				
<p>6a. Reduce Outdoor Water Use</p> <p><u>Residential</u>: Will the project submit a Landscape Document Package that is compliant with the County's Water Conservation in Landscaping Ordinance⁴ and demonstrates a 40% reduction in current Maximum Applied Water Allowance (MAWA) for outdoor use?</p> <p><u>Non-Residential</u>: Will the project submit a Landscape Document Package that is compliant with the County's Water Conservation in Landscaping Ordinance and demonstrates a 40% reduction in current MAWA for outdoor use?</p> <p>Check "N/A" if the project does not propose any landscaping, or if the aggregate landscaped area is between 500 – 2,499 square feet and elects to comply with the Prescriptive Compliance Option within the Water Conservation in Landscaping Ordinance.</p>	W-1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>6b. Project Detail:</p> <p>Please substantiate how the project satisfies question 6a.</p> <p>The Project would not include any landscaping that would necessitate preparation of a landscape plan or Landscape Document Package, nor would landscaping require consistent or substantial water use.</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>				
Agricultural and Farming Operations⁵				
<p>7a. Agricultural and Farming Equipment</p> <p>Will the project use the San Diego County Air Pollution Control District's (SDAPCD's) farm equipment incentive program to convert gas- and diesel-powered farm equipment to electric equipment?</p> <p>Check "N/A" if the project does not contain any agricultural or farming operations; if the SDAPCD incentive program is no longer available; or if funding for the incentive program has been exhausted.</p>	A-1.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>7b. Project Detail:</p> <p>Please substantiate how the project satisfies question 7a.</p> <p>The Project would not include gas or diesel-powered farm equipment and would not contain any agricultural or farming operations.</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>				

⁴ <http://www.sandiegocounty.gov/content/dam/sdc/cob/ordinances/ord10427.pdf>.

⁵ Existing agricultural operations would not be subject to questions 7 and 8 of the Checklist, unless a proposed expansion is subject to discretionary review and requires environmental review pursuant to CEQA.

Step 2: CAP Measures Consistency

Checklist Item (Check the appropriate box and provide an explanation for your answer)	CAP Measure	Yes	No	N/A
<p>8a. Electric Irrigation Pumps</p> <p>Will the project use SDAPCD's farm equipment incentive program to convert diesel- or gas-powered irrigation pumps to electric irrigation pumps?</p> <p>Check "N/A" if the project does not contain any agricultural or farming operations; if the SDAPCD incentive program is no longer available; or if funding for the incentive program has been exhausted.</p>	A-1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

8b. Project Detail:

Please substantiate how the project satisfies question 8a.

This is not applicable to the Project, as the Project would not include irrigation pumps and would not contain any agricultural or farming operations.

Tree Planting

<p>9a. Tree Planting</p> <p><u>Residential</u>: For residential projects, will the project plant, at a minimum, two trees per every new residential dwelling unit proposed?</p> <p>Check "N/A" if the project is a non-residential project.</p>	A-2.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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9b. Project Detail:

Please substantiate how the project satisfies question 9a.

The Project does not include a residential component.
