



## **Air Quality Study for Minneola Solar**

May 30, 2023

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## **1.0 INTRODUCTION**

This report presents an assessment of potential air quality and greenhouse gas (GHG) impacts associated with the proposed Minneola Solar project (the "Project"), a community photovoltaic solar facility. The Project would cover an area of up to 24.5 acres and would have a capacity of 3 megawatts (MW) using photovoltaic solar modules mounted on ground mounted single-axis trackers. The Project will be interconnected to an existing distribution line adjacent to the project site, and the electricity generated by the solar facility will be sold to low and moderate income households under a Disadvantaged Community program managed by Clean Power Alliance (CPA). The Project will operate on an autonomous, unstaffed basis and will be monitored remotely from an existing off-site facility. The Project will provide clean, sustainable electricity into local distribution grid for the benefit of disadvantaged community members.

<b>AREA DISTURBED</b>	<b>CONSTRUCTION SUMMARY</b>	<b>PARKING SPACES</b>	<b>APPROXIMATE DURATION</b>
24.5 AC	Installation of Photovoltaic Solar	-	24 months

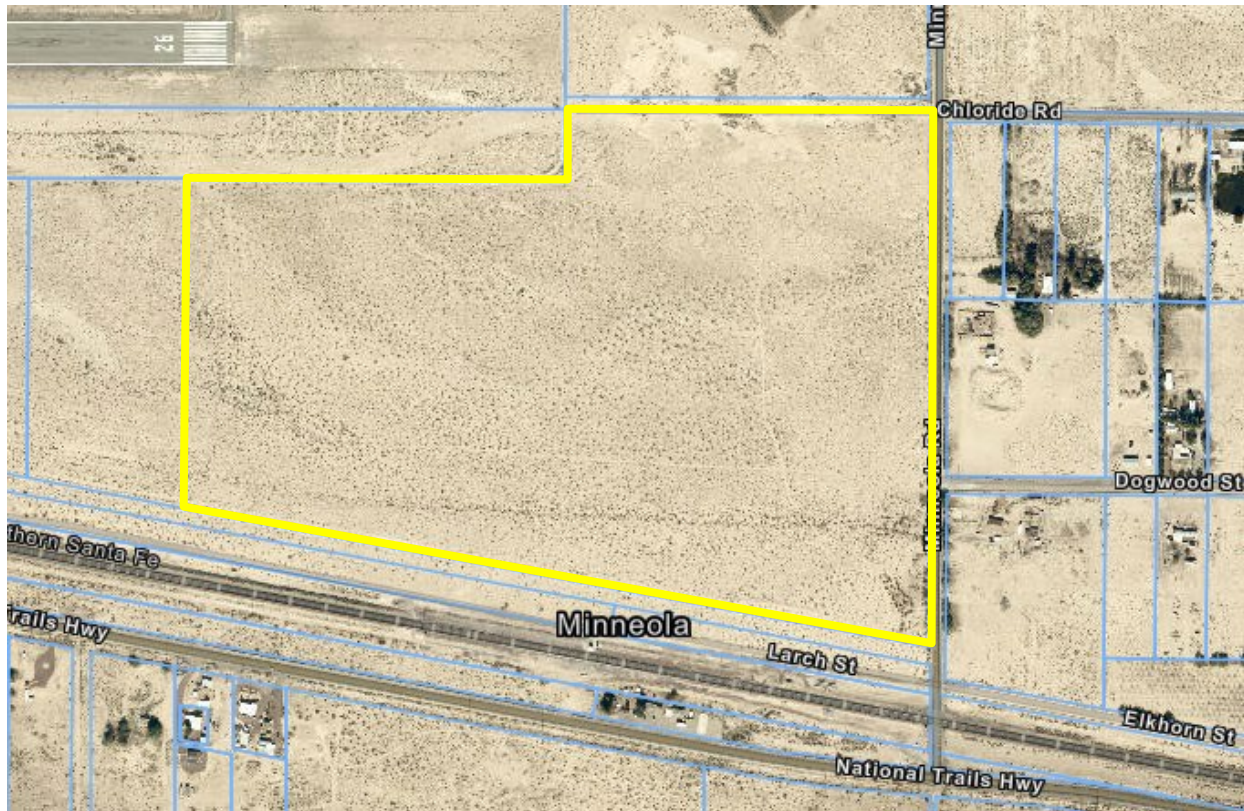
GHG impacts will be attributable to emissions associated with construction and operational emissions including traffic and energy use. This report presents an evaluation of existing conditions at the subject property, thresholds of significance, and potential air quality and GHG impacts associated with construction and operation of the Project.

## **2.0 EXISTING CONDITIONS**

### **2.1 CURRENT DEVELOPMENT**

The subject property is currently undeveloped vacant land. Offsite and onsite improvements will be constructed to allow for vehicle and pedestrian access to the site. The subject property is also largely surrounded by undeveloped vacant land, single family housing, and an airport. The property consists of approximately 91.9 acres, however only 24.5 acres would be developed. The property Assessor Parcel Number is 052-105-108. The County of San Bernardino Land Use Plan indicates that the parcel is zoned Rural Living (RL). The RL (Rural Living) land use zoning district provides sites for rural residential uses, incidental agricultural uses, and similar and compatible uses.

Figure 1: Project Site Aerial



## 2.2 REGULATORY SETTING

The United States Environmental Protection Agency (EPA) defines air quality by ambient air concentrations of specific pollutants that have been shown to be of concern with respect to health and welfare of the general public. The EPA is responsible for enforcing the Federal Clean Air Act (CAA) of 1970 and its 1977 and 1990 Amendments. The CAA required the EPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated.

In response, the EPA established both primary and secondary standards for several pollutants (called "criteria" pollutants). Primary standards are designed to protect human health with an adequate margin of safety. Secondary standards are designed to protect property and the public welfare from air pollutants in the atmosphere.

The Federal CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. More stringent California Ambient Air Quality Standards (CAAQS) have been adapted by the California Air Resources Board (ARB) for the six criteria pollutants through the California Clean Air Act of 1988 (CCAA). The CCAA also established California Ambient Air Quality Standards (CAAQS) for additional pollutants, including

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sulfates, hydrogen sulfide, vinyl chloride and visibility-reducing particles (see Table 1 for NAAQS and CAAQS.)

Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be "Nonattainment Areas" for that pollutant. In September 1997, the EPA promulgated 8-hour O<sub>3</sub> and 24-hour and annual PM<sub>2.5</sub> national standards. As a result, this action has initiated a new planning process to monitor and evaluate emission control measures for these pollutants.

Under CEQA, the Mojave Desert Air Quality Management District (District) is an expert commenting agency on air quality and related matters within its jurisdiction or impacting on its jurisdiction. Under the Federal Clean Air Act the District has adopted federal attainment plans for ozone and PM<sub>10</sub>. The District has dedicated assets to reviewing projects to ensure that they will not: (1) cause or contribute to any new violation of any air quality standard; (2) increase the frequency or severity of any existing violation of any air quality standard; or (3) delay timely attainment of any air quality standard or any required interim emission reductions or other milestones of any federal attainment plan. These Guidelines are intended to assist persons preparing environmental analysis or review documents for any project within the jurisdiction of the District by providing background information and guidance on the preferred analysis approach.

The California ARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The ARB is responsible for the development, adoption, and enforcement of the state's motor vehicle emissions program, as well as the adoption of the CAAQS. The ARB also reviews operations and programs of the local air districts and requires each air district with jurisdiction over a nonattainment area to develop its own strategy for achieving the NAAQS and CAAQS.

The local air district has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The Mojave Desert Air Quality Management District (MDAQMD) is the local agency responsible for the administration and enforcement of air quality regulations for the MDAB.

The MDAQMD and the Southern California Association of Governments (SCAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the MDAB. The most recently adopted air quality plan in the MDAB is the 2017 Air Quality Management Plan (AQMP), which was adopted by the Board in 2017.

Table 1 presents a summary of the ambient air quality standards adopted by the federal and California Clean Air Acts.

**Table 1: Ambient Air Quality Standards**

POLLUTANT	AVERAGE TIME	CALIFORNIA STANDARDS CONCENTRATION	CALIFORNIA STANDARDS METHODS	NATIONAL STANDARDS PRIMARY	NATIONAL STANDARDS SECONDARY	NATIONAL STANDARDS METHOD
Ozone (O3)	1 hour	0.09 ppm (180 µg/m3)	Ultraviolet Photometry	0.075 ppm (147 µg/m3)	0.075 ppm (147 µg/m3)	Ultraviolet Photometry
	8 hour	0.070 ppm (137 µg/m3)				
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 µg/m3)	—	Non-Dispersive Infrared Spectroscopy (NDIR)
	8 Hour	9.0 ppm (10 mg/m3)		9 ppm (10 µg/m3)	—	
Nitrogen Dioxide (NO2)	Annual	0.030 ppm (56 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m3)		Gas Phase Chemiluminescence
	1 hour	0.18 ppm (338 µg/m3)		0.100 ppm (188 µg/m3)		
Sulfur Dioxide (SO2)	24 hours	0.04 ppm (105 µg/m3)	Ultraviolet Fluorescence		0.5 ppm (1300 µg/m3)	Pararosaniline
	3 hours	--				
	1 hour	0.25 ppm (655 µg/m3)		0.075 ppm (196 µg/m3)		
Respirable Particulate Matter (PM10)	24 hours	50 µg/m3	Gravimetric or Beta Attenuation	150 µg/m3	150 µg/m3	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m3				
Fine Particulate Matter (PM2.5)	Annual Arithmetic Mean	12 µg/m3	Gravimetric or Beta Attenuation	12.0 µg/m3	15 µg/m3	Inertial Separation and Gravimetric Analysis
	24 hours			35 µg/m3		
Sulfates	24 hours	25 µg/m3	Ion Chromatography	No National Standards		
Lead	30-day Average	1.5 µg/m3	Atomic Absorption			Atomic Absorption
	Calendar Quarter			1.5 µg/m3	1.5 µg/m3	
	3-Month Rolling			0.15 µg/m3	0.15 µg/m3	
Hydrogen Sulfide	1 hour	0.03 ppm (42 µg/m3)	Ultraviolet Fluorescence	No National Standards		
Vinyl Chloride	24 hours	0.010 ppm (26 µg/m3)	Gas Chromatography	No National Standards		

### **3.0 THRESHOLDS OF SIGNIFICANCE**

As defined by the MDAQMD, any project is significant if it triggers or exceeds the most appropriate evaluation criteria. The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient: 1. Generates total emissions (direct and indirect) in excess of the thresholds given in Table 6; 2. Generates a violation of any ambient air quality standard when added to the local background; 3. Does not conform with the applicable attainment or maintenance plan(s) 1; 4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1. A significant project must incorporate mitigation sufficient to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must incorporate all feasible mitigation. Note that the emission thresholds are given as a daily value and an annual value, so that multi-phased project (such as project with a construction phase and a separate operational phase) with phases shorter than one year can be compared to the daily value.

The project-level numerical thresholds are summarized in Table 2.

**Table 2: MDAQMD Significant Thresholds**

POLLUTANT	CONSTRUCTION	OPERATION
<i>Criteria Pollutants Mass Daily Thresholds</i>		
NOx	137 lbs./day	137 lbs./day
ROG (VOC)	137 lbs./day	137 lbs./day
PM10	82 lbs./day	82 lbs./day
PM2.5	65 lbs./day	65 lbs./day
SOx	137 lbs./day	137 lbs./day
CO	548 lbs./day	548 lbs./day
Lead	3 lbs./day	3 lbs./day

<b>Mojave Desert AQMD Attainment Status</b>					
Pollutant	Averaging Time	California Standards		Federal Standards	
		Concentration	Attainment Status	Concentration	Attainment Status
Ozone (O <sub>3</sub> )	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Non-attainment	-	Non-attainment*
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )	
Respirable Particulate Matter (PM <sub>10</sub> )	24 Hour	50 µg/m <sup>3</sup>	Non-attainment	150 µg/m <sup>3</sup>	Non-attainment***
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		-	
Fine Particulate Matter (PM <sub>2.5</sub> )	24 Hour	No State Standard	Non-attainment*	35 µg/m <sup>3</sup>	Unclassified/Attainment
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>		12 µg/m <sup>3</sup>	
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m <sup>3</sup> )	Attainment	9 ppm (10 mg/m <sup>3</sup> )	Unclassified/Attainment
	1 Hour	20 ppm (23 mg/m <sup>3</sup> )		35 ppm (40 mg/m <sup>3</sup> )	
Nitrogen Dioxide (NO <sub>2</sub> )	Annual Arithmetic Mean	0.030 ppb (57 µg/m <sup>3</sup> )	Attainment	0.053 ppm (100 µg/m <sup>3</sup> )	Unclassified/Attainment
	1 Hour	0.18 ppm (330 µg/m <sup>3</sup> )		100 ppm (196 µg/m <sup>3</sup> )	
Sulfur Dioxide (SO <sub>2</sub> )	Annual Arithmetic Mean	-	Attainment	0.030 ppm (80 µg/m <sup>3</sup> )	Unclassified/Attainment
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (365 µg/m <sup>3</sup> )	
	3 Hour	-		0.5 ppm (1300 µg/m <sup>3</sup> )	
	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )		75 ppb (196 µg/m <sup>3</sup> )	
Lead (Pb)	30 Day Average	1.5 µg/m <sup>3</sup>	Attainment	-	Unclassified/Attainment
	Calendar Quarter	-		1.5 µg/m <sup>3</sup>	
	Rolling 3-Month Average	-		0.15 µg/m <sup>3</sup>	
Visibility Reducing Particles	8 Hour	Extinction Coefficient of 0.24 per kilometer - visibility of ten miles or more due to particles when relative humidity is less than 70 percent	Unclassified	No Federal Standards	
Sulfates	24 Hour	25 µg/m <sup>3</sup>	Attainment		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Non-attainment**		
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Unclassified		

\*Southwest corner of desert portion of San Bernardino County only

\*\*Searles Valley (northwest corner of San Bernardino County) only

\*\*\*San Bernardino County portion only

## **4.0 IMPACTS**

The proposed community solar development may cause temporary air quality impacts from construction, but not during operations. Temporary construction impacts include emissions associated with site grading/preparation and utilities installation. Operational impacts will cause no impacts due to negligible maintenance requirements and minimal heavy equipment and onsite renewable energy generation offsetting any operations admissions.

### **4.1 CONSTRUCTION**

Emissions of pollutants such as fugitive dust that are generated during construction are generally highest near the construction site. Emissions from the construction phase of the Project were estimated through the use of the CalEEMod Model (ENVIRON 2020). It was assumed that heavy construction equipment would be operating at the site for eight hours per day, five days per week during project construction. In addition, it was assumed that, in accordance with the requirements of the MDAQMD Rule 403, fugitive dust controls would be utilized during construction, including watering of active sites two times daily.

Table 3 provides a summary of the emission estimates for construction of all proposed site improvements. These projected emissions assume standard measures are implemented to reduce emissions, as calculated with the CalEEMod Model, and are compared to the regional thresholds. Refer to Appendix A for detailed model output files.

Table 3 includes projected emissions for all steps of construction, averaged over the Project's projected construction duration. These steps include: Site Preparation, Trenching, and Building Construction (Installation of Solar PV Equipment). Note that projected emissions for all pollutants during construction are below both the MDAQMD's Air Quality Significance Thresholds.

During Construction diesel-fired equipment will be operated and will result in the release of diesel particulate matter which is a listed carcinogen and toxic air contaminant in the State of California. The earthwork phase is the phase of construction in which the majority of diesel-fired equipment will be used.

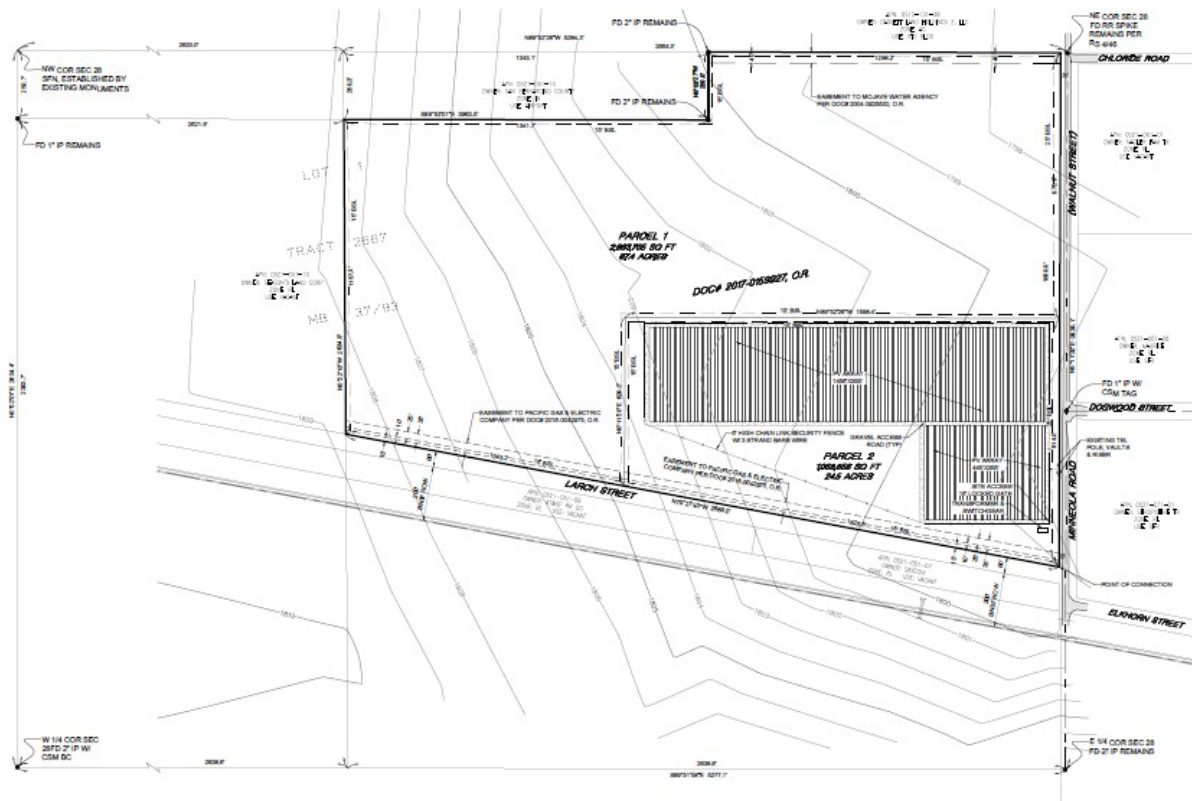
Project construction would not result in emission of any odor compounds that would cause a nuisance or significant impact to nearby receptors. The impacts associated with project construction are therefore not considered significant with regard to odors.



**Table 4:**  
**Estimated Annual Construction Emissions (Annual, Unmitigated) LBS/Day (unless otherwise shown)**

EMISSION SOURCE	ROG	NOx	CO	SOx	PM10	PM2.5
Regional Significance Criteria	137	137	548	137	82	65
Project Construction Emissions	2.10	24.46	35.29	negligible	1.88	1.14
Significant?	No	No	No	No	No	No

**Figure 2: Site Plan**



## **4.2 OPERATIONAL**

The Minneola Solar project would be operated on an autonomous, unstaffed basis and monitored remotely from an existing off-site facility. It is anticipated that maintenance requirements for the Project would be minimal as the PV arrays would operate with limited moving parts. One or two employees would visit the site up to five days per week for routine maintenance and check-ups. Operational activities for the Project would include monitoring plant performance and responding to utility needs for plant adjustment, as well as preventative and unscheduled maintenance.

The Project would only operate during daylight hours. Periodic module cleanings and quarterly maintenance activities may require six to eight full-time workers for one to two weeks per quarter, or up to 40 days per year. No heavy equipment would be used during routine operation. Operation and maintenance vehicles would include trucks, forklifts, and loaders for routine and unscheduled maintenance, and water trucks for solar module washing. Large heavy-haul transport equipment may be brought to the site infrequently for equipment repair or replacement. Necessary maintenance components would be available at an offsite location and Southern California Edison (SCE), the interconnect utility and distribution system operator, would make necessary inspections of the Project.

Any required maintenance would be scheduled to avoid peak electric load periods, with unplanned maintenance activity as needed depending on the event. Preventative maintenance kits and certain critical spare components would be stored at the project site. The Project would be operated in compliance with all relevant health, safety, and environmental regulations. The developer, BMT Minneola LLC, would be responsible for the operation and maintenance of the Project.

Overall, the Project will produce negligible impacts during operation due to minimal maintenance requirements, and no heavy equipment would be used during routine operation. Furthermore, any air pollutants generated by the maintenance components associated with solar module washing and operations would be offset by the 3 MW of renewable energy generation occurring on site.

## **4.3 ODORS**

During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the project site and the temporary nature of construction, odors associated with project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for this Project. Odor impacts would not be significant.

## 4.4 PROJECT’S CONTRIBUTION TO CRITERIA POLLUTANTS

Pursuant to the Sierra Club v. Friant Ranch Supreme Court Ruling (Case No. S219783, December 24, 2018), which found on page 6 of the ruling that EIRs need to “makes a reasonable effort to substantively connect a project’s air quality impacts to likely health consequences.” Also, on page 24 of the ruling it states “The Court of Appeal identified several ways in which the EIR could have framed the analysis so as to adequately inform the public and decision makers of possible adverse health effects. The County could have, for example, identified the project’s impact on the days of nonattainment per year.”

The Air Basin has been designated by EPA for the national standards as a non-attainment area for O3, PM10, and partial non-attainment for lead. In addition, PM2.5 has been designated by the State as non-attainment. It should be noted that VOC and NOx are O3 precursors, as such they have been considered as non-attainment pollutants. According to the Final 2016 Air Quality Management Plan, prepared by MDAQMD, February 2020, in 2016 the total emissions of: VOC was 500 tons per year; NOx was 522 tons per year; SOx was 18 tons per year; and PM2.5 was 66 tons per year. The Project contribution to each criteria pollutant in the Mojave Desert Air Basin is shown below.

**Table 4:  
Project’s Contribution to Criteria Pollutants in the Mojave Desert Air Basin**

EMISSIONS SOURCE	MAXIMUM DAILY EMISSIONS (POUNDS/DAY)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Project Emissions <sup>1</sup>	0.1070	9.0000e-005	9.7800e-003	0	0	3.0000e-005
Total Emissions in Air Basin <sup>2</sup>	13.32	6.58	65.42	0.11	12.27	4.22
Project’s Percent of Air Emissions	insignificant	insignificant	insignificant	insignificant	insignificant	insignificant

Notes:

1. From the Project’s total operational emissions.
2. Since the Final 2016 AQMP did not provide the total PM10 annual emissions in the Air Basin, the PM2.5 emissions, which is a subset of PM10 was utilized instead.

Source: MDAQMD, 2017.

## 5.0 GREENHOUSE GAS EVALUATION

According to the California Natural Resources Agency, “due to the global nature of GHG emissions and their potential effects, GHG emissions will typically be addressed in a cumulative impacts analysis.” According to Appendix G of the CEQA Guidelines, the following criteria may be considered to establish the significance of GHG emissions:

Would the project:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed in Section 15064.4 of the CEQA Guidelines, the determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency, consistent with the provisions in Section 15064. Section 15064.4 further provides that a lead agency should make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of GHG emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to:

- Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use. The lead agency has discretion to select the model or methodology it considers most appropriate provided it supports its decision with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use; and/or
- Rely on a qualitative analysis or performance-based standards.

Section 15064.4 also advises a lead agency to consider the following factors, among others, when assessing the significance of impacts from greenhouse gas emissions on the environment:

1. The extent to which the project may increase or reduce greenhouse gas 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 greenhouse gas emissions.

The Minneola Solar project will have a negligible release of greenhouse gases due to its remote and autonomous operation, minimal maintenance requirements, absence of heavy equipment use, and compliance with all relevant regulations during the development stages.

Based on the results of the CalEEMod Model, the Project would generate a total of 0.0203 metric tons of CO<sub>2</sub>e emissions annually from operations. By adding the amortized construction emissions results with the operational annual CO<sub>2</sub>e emissions the Project will produce 97.43 metric tons over a 30-year period. This cumulative level is well below the MDAQMD's

recommended Tier 3 threshold of 3,000 metric tons of CO<sub>2</sub>e emissions for residential and commercial land uses, therefore no significant impact would occur.

## **6.0 CONCLUSIONS**

The Air Quality and GHG Analysis for the proposed Minneola Solar project in the community of Newberry Springs in San Bernardino County, California evaluated emissions associated with both the construction and operation of the Project. Emissions associated with construction and operation were compared with significance thresholds developed by the MDAQMD, which provide a conservative means of evaluating whether project emissions would cause a significant impact on the ambient air quality or whether further evaluation is warranted. Emissions associated with construction and operation of the Project are below the significance thresholds for all criteria pollutants as well as cumulative GHG emissions. Thus, the emissions associated with construction and operation of the Project would not result in a significant impact under the California Environmental Quality Act.

## 7.0 CEQA ENVIRONMENTAL CHECKLIST

### AIR QUALITY

Issues	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b><u>AIR QUALITY:</u> Would the Project:</b>				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The Project falls under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD) and is located in the Mojave Desert Air Basin (MDAB). The Air Quality Management Plan (AQMP) aims to obtain attainment status for key monitored air pollution standards, based on current and future air pollution emissions resulting from employment and residential growth projections. To develop the AQMP, various agencies' General Plans and other projections for population and employment growth are taken into consideration. During project construction, emissions with regional effects are calculated using the California Emissions Estimator Model (CalEEMod); Version 2016.3.2 and would not exceed criteria pollutant thresholds established by the MDAQMD.

The Project is expected to have a minimal impact on the air quality of the area and would produce relatively few emissions during construction (three-month period) and negligible emissions during operation. In addition, the development of renewable energy sources is expected to produce cumulative and regional environmental benefits. Therefore, impacts are considered less than significant. Table 5 below presents the regional air quality significance thresholds.

**Table 5: Air quality significance thresholds for MDAQMD**

EMISSION SOURCE	ROG	NOx	CO	SOx	PM10	PM2.5
<b>Regional Significance Criteria</b>	137	137	548	137	82	65
<b>Project Construction Emissions</b>	2.10	24.46	35.29	negligible	1.88	1.14
<b>Significant?</b>	No	No	No	No	No	No

a) *Conflict with or obstruct implementation of the applicable air quality plan?*

**Less Than Significant Impact.** As shown in Table 5 emissions from construction of the Project would be below MDAQMD air quality significance thresholds for all pollutants. Based on this, the Project would not be expected to conflict with or obstruct implementation of the AQMP. There would be no expected conflict or obstruction of any air quality plans. Most of the polluting emissions would be produced during the construction period where earthmovers, delivery trucks, and personal vehicles would be used during the construction phase. These emissions would be in the form of exhaust and dust. The amount of exhaust associated with the Project would be negligible compared to the yearly exhaust levels of San Bernardino County.

The Project is located within the MDAQMD which is non-attainment for ozone and PM10. The MDAQMD has adopted federal attainment plans (1995 for PM10 and 2004 for ozone) for these two pollutants. The Project is expected to generate minor particulate and ozone precursors during the approximately three-month construction period. However, these would be less than or roughly equal to pollutants generated by other land uses for this property such as farming (farrowing, plowing, etc.). Best Management Practices for the Project shall include use of water trucks to reduce particulate emissions during construction. In addition, a Dust Control Plan shall be developed and submitted to the County and MDAQMD for review and approval prior to issuance of a grading permit and/or land disturbance.

b) *Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

**Less Than Significant Impact.** Emissions from operations of the Project would be below the levels produced during construction and in effect, the air quality significance thresholds for all pollutants. Specifically, the Project would not exceed MDAQMD significance thresholds for ozone precursors pollutants, VOC and NOx, as well as PM10 and PM2.5 for which the MDAB is in non-attainment. Since the Project's emissions are below the MDAQMD's project-specific thresholds, the Project emissions would not be cumulatively considerable, and impacts would be less than significant.

c) *Expose sensitive receptors to substantial pollutant concentrations?*

**Less Than Significant Impact.** Sensitive receptors are defined as populations that are more susceptible to the effects of pollution than the population at large. The MDAQMD identifies the following as sensitive receptors: residences, schools, daycare centers, playgrounds, and medical facilities. The Project is bordered by a few residential homes to the south and east and an airport to the north. All pollutant levels for the Project are below the significance thresholds as defined by MDAQMD and CalEEMod. The only potential impacts to the surrounding sensitive receptors would be dust pollutants during the construction phase. A Dust Control Plan shall be developed and submitted to the County and MDAQMD for review and approval prior to issuance of a grading permit and/or land disturbance to reduce any potential impacts to less than significant. Overall, the Project would not expose any sensitive receptors to substantial pollutant concentrations and a less than significant impact would occur.

d) *Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

**Less Than Significant Impact.** During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the project site and the temporary nature of construction, odors associated with project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for this project. Overall, odor impacts would not be less than significant.



## **8.0 REFERENCES**

Association of Environmental Professionals. 2007. Recommendations by the Association of Environmental Professionals (AEP) on How to Analyze Greenhouse Gas Emissions and Global Climate Change in CEQA Documents. June.

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# *Appendix A: CalEEMod Results*

Minneola Solar - Mojave Desert AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not**

**Applied**

**Minneola Solar  
Mojave Desert AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1,067.20	1000sqft	24.50	1,067,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics -

Land Use -

Construction Phase - 60 days for installation of Solar PV equipment based on a 3 MW project size

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation

Trips and VMT - The Equipment type is based off a 3 MW Solar Installation

Road Dust - The Equipment type is based off a 3 MW Solar Installation

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	370.00	60.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	7/31/2026	5/23/2025
tblConstructionPhase	PhaseEndDate	2/28/2025	1/22/2025
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	HorsePower	65.00	247.00
tblOffRoadEquipment	HorsePower	80.00	367.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	LoadFactor	0.38	0.34
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Scrapers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Welders	Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	100	15
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripLength	6.60	15.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblTripsAndVMT	VendorTripNumber	175.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	9.00
tblTripsAndVMT	WorkerTripNumber	448.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	9.00
tblTripsAndVMT	WorkerTripNumber	13.00	9.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2024	7.5000e-004	7.1500e-003	8.1600e-003	2.0000e-005	2.4000e-004	2.4000e-004	4.8000e-004	7.0000e-005	2.2000e-004	2.9000e-004	0.0000	2.1789	2.1789	5.8000e-004	5.0000e-005	2.2069
2025	0.0303	0.2642	0.3792	1.0900e-003	0.0141	9.3600e-003	0.0234	3.7800e-003	8.6100e-003	0.0124	0.0000	96.4849	96.4849	0.0270	8.7000e-004	97.4197
<b>Maximum</b>	<b>0.0303</b>	<b>0.2642</b>	<b>0.3792</b>	<b>1.0900e-003</b>	<b>0.0141</b>	<b>9.3600e-003</b>	<b>0.0234</b>	<b>3.7800e-003</b>	<b>8.6100e-003</b>	<b>0.0124</b>	<b>0.0000</b>	<b>96.4849</b>	<b>96.4849</b>	<b>0.0270</b>	<b>8.7000e-004</b>	<b>97.4197</b>

**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					
2024	7.5000e-004	7.1500e-003	8.1600e-003	2.0000e-005	2.4000e-004	2.4000e-004	4.8000e-004	7.0000e-005	2.2000e-004	2.9000e-004	0.0000	2.1789	2.1789	5.8000e-004	5.0000e-005	2.2069
2025	0.0303	0.2642	0.3792	1.0900e-003	0.0141	9.3600e-003	0.0234	3.7800e-003	8.6100e-003	0.0124	0.0000	96.4848	96.4848	0.0270	8.7000e-004	97.4196
<b>Maximum</b>	<b>0.0303</b>	<b>0.2642</b>	<b>0.3792</b>	<b>1.0900e-003</b>	<b>0.0141</b>	<b>9.3600e-003</b>	<b>0.0234</b>	<b>3.7800e-003</b>	<b>8.6100e-003</b>	<b>0.0124</b>	<b>0.0000</b>	<b>96.4848</b>	<b>96.4848</b>	<b>0.0270</b>	<b>8.7000e-004</b>	<b>97.4196</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2024	2-28-2025	0.1255	0.1255
2	3-1-2025	5-31-2025	0.8110	0.8110
		Highest	0.8110	0.8110

**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	0.1070	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0203
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
<b>Total</b>	<b>0.1070</b>	<b>9.0000e-005</b>	<b>9.7800e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0191</b>	<b>0.0191</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0203</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.1070	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0203
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
<b>Total</b>	<b>0.1070</b>	<b>9.0000e-005</b>	<b>9.7800e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0191</b>	<b>0.0191</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0203</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/28/2024	1/10/2025	5	10	
2	Installation of Solar PV Equipment and Utility	Trenching	1/11/2025	1/22/2025	5	8	
3	Installation of Solar PV Equipment	Building Construction	3/1/2025	5/23/2025	5	60	



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 24.5**

**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 Preparation	Rubber Tired Loaders	1	6.00	203	0.36
Site Preparation	Skid Steer Loaders	1	6.00	97	0.37
Installation of Solar PV Equipment	Aerial Lifts	1	6.00	63	0.31
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	247	0.40
Installation of Solar PV Equipment and Utility	Excavators	2	8.00	158	0.38
Installation of Solar PV Equipment	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Installation of Solar PV Equipment	Skid Steer Loaders	1	6.00	65	0.37
Installation of Solar PV Equipment and Utility	Skid Steer Loaders	1	8.00	247	0.40
Site Preparation	Aerial Lifts	1	6.00	63	0.31
Installation of Solar PV Equipment and Utility	Rollers	2	8.00	367	0.48
Installation of Solar PV Equipment	Excavators	1	3.00	158	0.38
Installation of Solar PV Equipment and Utility	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Excavators	1	6.00	158	0.34
Installation of Solar PV Equipment	Bore/Drill Rigs	2	7.00	221	0.50

**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
Installation of Solar PV Equipment	6	30.00	3.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Installation of Solar PV Equipment and Utilit	7	9.00	3.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	9.00	9.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-004	6.6100e-003	7.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.2000e-004	2.2000e-004	0.0000	1.7737	1.7737	5.7000e-004	0.0000	1.7880
<b>Total</b>	<b>7.0000e-004</b>	<b>6.6100e-003</b>	<b>7.6900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.7737</b>	<b>1.7737</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.7880</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	2.0000e-005	5.2000e-004	1.8000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3221	0.3221	0.0000	4.0000e-005	0.3351
Worker	3.0000e-005	2.0000e-005	2.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0831	0.0831	0.0000	0.0000	0.0838
<b>Total</b>	<b>5.0000e-005</b>	<b>5.4000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>7.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4052</b>	<b>0.4052</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.4189</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-004	6.6100e-003	7.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.2000e-004	2.2000e-004	0.0000	1.7737	1.7737	5.7000e-004	0.0000	1.7880
<b>Total</b>	<b>7.0000e-004</b>	<b>6.6100e-003</b>	<b>7.6900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.7737</b>	<b>1.7737</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.7880</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	2.0000e-005	5.2000e-004	1.8000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3221	0.3221	0.0000	4.0000e-005	0.3351
Worker	3.0000e-005	2.0000e-005	2.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0831	0.0831	0.0000	0.0000	0.0838
<b>Total</b>	<b>5.0000e-005</b>	<b>5.4000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>7.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4052</b>	<b>0.4052</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.4189</b>

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5800e-003	0.0226	0.0306	8.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	7.0991	7.0991	2.3000e-003	0.0000	7.1565
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0226</b>	<b>0.0306</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>7.5000e-004</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>7.0991</b>	<b>7.0991</b>	<b>2.3000e-003</b>	<b>0.0000</b>	<b>7.1565</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0700e-003	7.1000e-004	1.0000e-005	4.9000e-004	3.0000e-005	5.2000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	1.2618	1.2618	0.0000	1.7000e-004	1.3124
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3211	0.3211	1.0000e-005	1.0000e-005	0.3237
<b>Total</b>	<b>1.9000e-004</b>	<b>2.1600e-003</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>3.0000e-005</b>	<b>9.7000e-004</b>	<b>2.6000e-004</b>	<b>2.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.5829</b>	<b>1.5829</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>1.6361</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5800e-003	0.0226	0.0306	8.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	7.0991	7.0991	2.3000e-003	0.0000	7.1565
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0226</b>	<b>0.0306</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>7.5000e-004</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>7.0991</b>	<b>7.0991</b>	<b>2.3000e-003</b>	<b>0.0000</b>	<b>7.1565</b>

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**3.2 Site Preparation - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0700e-003	7.1000e-004	1.0000e-005	4.9000e-004	3.0000e-005	5.2000e-004	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	1.2618	1.2618	0.0000	1.7000e-004	1.3124
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3211	0.3211	1.0000e-005	1.0000e-005	0.3237
<b>Total</b>	<b>1.9000e-004</b>	<b>2.1600e-003</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>3.0000e-005</b>	<b>9.7000e-004</b>	<b>2.6000e-004</b>	<b>2.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.5829</b>	<b>1.5829</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>1.6361</b>

**3.3 Installation of Solar PV Equipment and Utility - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.6500e-003	0.0751	0.0928	1.9000e-004		3.1600e-003	3.1600e-003		2.9100e-003	2.9100e-003	0.0000	16.5919	16.5919	5.3700e-003	0.0000	16.7261
<b>Total</b>	<b>7.6500e-003</b>	<b>0.0751</b>	<b>0.0928</b>	<b>1.9000e-004</b>		<b>3.1600e-003</b>	<b>3.1600e-003</b>		<b>2.9100e-003</b>	<b>2.9100e-003</b>	<b>0.0000</b>	<b>16.5919</b>	<b>16.5919</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>16.7261</b>

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**3.3 Installation of Solar PV Equipment and Utility - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	2.0000e-005	6.9000e-004	2.4000e-004	0.0000	1.6000e-004	1.0000e-005	1.7000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.4206	0.4206	0.0000	6.0000e-005	0.4375
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3211	0.3211	1.0000e-005	1.0000e-005	0.3237
<b>Total</b>	<b>1.4000e-004</b>	<b>7.8000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.7417</b>	<b>0.7417</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.7612</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.6500e-003	0.0751	0.0928	1.9000e-004		3.1600e-003	3.1600e-003		2.9100e-003	2.9100e-003	0.0000	16.5919	16.5919	5.3700e-003	0.0000	16.7260
<b>Total</b>	<b>7.6500e-003</b>	<b>0.0751</b>	<b>0.0928</b>	<b>1.9000e-004</b>		<b>3.1600e-003</b>	<b>3.1600e-003</b>		<b>2.9100e-003</b>	<b>2.9100e-003</b>	<b>0.0000</b>	<b>16.5919</b>	<b>16.5919</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>16.7260</b>

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**3.3 Installation of Solar PV Equipment and Utility - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	2.0000e-005	6.9000e-004	2.4000e-004	0.0000	1.6000e-004	1.0000e-005	1.7000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.4206	0.4206	0.0000	6.0000e-005	0.4375
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3211	0.3211	1.0000e-005	1.0000e-005	0.3237
<b>Total</b>	<b>1.4000e-004</b>	<b>7.8000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.7417</b>	<b>0.7417</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.7612</b>

**3.4 Installation of Solar PV Equipment - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0165	0.1562	0.2242	6.8000e-004		5.2400e-003	5.2400e-003		4.8200e-003	4.8200e-003	0.0000	59.2865	59.2865	0.0192	0.0000	59.7659
<b>Total</b>	<b>0.0165</b>	<b>0.1562</b>	<b>0.2242</b>	<b>6.8000e-004</b>		<b>5.2400e-003</b>	<b>5.2400e-003</b>		<b>4.8200e-003</b>	<b>4.8200e-003</b>	<b>0.0000</b>	<b>59.2865</b>	<b>59.2865</b>	<b>0.0192</b>	<b>0.0000</b>	<b>59.7659</b>



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**3.4 Installation of Solar PV Equipment - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.7000e-004	5.1600e-003	1.7800e-003	3.0000e-005	1.2300e-003	6.0000e-005	1.3000e-003	3.6000e-004	6.0000e-005	4.2000e-004	0.0000	3.1545	3.1545	1.0000e-005	4.2000e-004	3.2811
Worker	3.0900e-003	2.1300e-003	0.0267	9.0000e-005	0.0113	5.0000e-005	0.0113	3.0000e-003	4.0000e-005	3.0400e-003	0.0000	8.0283	8.0283	1.7000e-004	2.0000e-004	8.0929
<b>Total</b>	<b>3.2600e-003</b>	<b>7.2900e-003</b>	<b>0.0285</b>	<b>1.2000e-004</b>	<b>0.0125</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>3.3600e-003</b>	<b>1.0000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>11.1827</b>	<b>11.1827</b>	<b>1.8000e-004</b>	<b>6.2000e-004</b>	<b>11.3739</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0165	0.1562	0.2242	6.8000e-004		5.2400e-003	5.2400e-003		4.8200e-003	4.8200e-003	0.0000	59.2865	59.2865	0.0192	0.0000	59.7658
<b>Total</b>	<b>0.0165</b>	<b>0.1562</b>	<b>0.2242</b>	<b>6.8000e-004</b>		<b>5.2400e-003</b>	<b>5.2400e-003</b>		<b>4.8200e-003</b>	<b>4.8200e-003</b>	<b>0.0000</b>	<b>59.2865</b>	<b>59.2865</b>	<b>0.0192</b>	<b>0.0000</b>	<b>59.7658</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.7000e-004	5.1600e-003	1.7800e-003	3.0000e-005	1.2300e-003	6.0000e-005	1.3000e-003	3.6000e-004	6.0000e-005	4.2000e-004	0.0000	3.1545	3.1545	1.0000e-005	4.2000e-004	3.2811
Worker	3.0900e-003	2.1300e-003	0.0267	9.0000e-005	0.0113	5.0000e-005	0.0113	3.0000e-003	4.0000e-005	3.0400e-003	0.0000	8.0283	8.0283	1.7000e-004	2.0000e-004	8.0929
<b>Total</b>	<b>3.2600e-003</b>	<b>7.2900e-003</b>	<b>0.0285</b>	<b>1.2000e-004</b>	<b>0.0125</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>3.3600e-003</b>	<b>1.0000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>11.1827</b>	<b>11.1827</b>	<b>1.8000e-004</b>	<b>6.2000e-004</b>	<b>11.3739</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**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
Other Non-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
Other Non-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
Other Non-Asphalt Surfaces	0.533906	0.057134	0.174979	0.135238	0.028400	0.007566	0.006280	0.022304	0.000478	0.000157	0.027480	0.000931	0.005146





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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	-3000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1070	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0203
Unmitigated	0.1070	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0203

**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	0.0371					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0203
<b>Total</b>	<b>0.1070</b>	<b>9.0000e-005</b>	<b>9.7800e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0191</b>	<b>0.0191</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0203</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0371					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0191	0.0191	5.0000e-005	0.0000	0.0203
<b>Total</b>	<b>0.1070</b>	<b>9.0000e-005</b>	<b>9.7800e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0191</b>	<b>0.0191</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0203</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	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			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**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

Minneola Solar - Mojave Desert AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Minneola Solar - Mojave Desert AQMD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**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**

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### Minneola Solar

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

#### Mojave Desert AQMD Air District, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Installation of Solar PV Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Installation of Solar PV Equipment and Utility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Aerial Lifts	Diesel	No Change	0	2	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Rubber Tired Loaders	Diesel	No Change	0	1	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	4	No Change	0.00

### Minneola Solar

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Aerial Lifts	8.90000E-004	1.36600E-002	2.86400E-002	4.00000E-005	2.30000E-004	2.20000E-004	0.00000E+000	3.87256E+000	3.87256E+000	1.25000E-003	0.00000E+000	3.90388E+000
Bore/Drill Rigs	1.09900E-002	9.79300E-002	1.06900E-001	5.00000E-004	3.21000E-003	2.96000E-003	0.00000E+000	4.36861E+001	4.36861E+001	1.41300E-002	0.00000E+000	4.40393E+001
Excavators	3.79000E-003	2.77400E-002	7.36800E-002	1.20000E-004	1.36000E-003	1.25000E-003	0.00000E+000	1.02605E+001	1.02605E+001	3.32000E-003	0.00000E+000	1.03434E+001
Rollers	5.26000E-003	5.46800E-002	4.89000E-002	1.20000E-004	2.25000E-003	2.07000E-003	0.00000E+000	1.07686E+001	1.07686E+001	3.48000E-003	0.00000E+000	1.08556E+001
Rubber Tired Loaders	8.80000E-004	7.32000E-003	5.54000E-003	2.00000E-005	2.50000E-004	2.30000E-004	0.00000E+000	2.06022E+000	2.06022E+000	6.70000E-004	0.00000E+000	2.07688E+000
Skid Steer Loaders	1.67000E-003	2.22900E-002	3.87600E-002	6.00000E-005	6.80000E-004	6.20000E-004	0.00000E+000	5.10988E+000	5.10988E+000	1.65000E-003	0.00000E+000	5.15120E+000
Tractors/Loaders/Backhoes	3.91000E-003	3.69000E-002	5.29100E-002	1.00000E-004	1.47000E-003	1.35000E-003	0.00000E+000	8.99342E+000	8.99342E+000	2.91000E-003	0.00000E+000	9.06613E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Aerial Lifts	8.90000E-004	1.36600E-002	2.86400E-002	4.00000E-005	2.30000E-004	2.20000E-004	0.00000E+000	3.87256E+000	3.87256E+000	1.25000E-003	0.00000E+000	3.90387E+000
Bore/Drill Rigs	1.09900E-002	9.79300E-002	1.06900E-001	5.00000E-004	3.21000E-003	2.96000E-003	0.00000E+000	4.36860E+001	4.36860E+001	1.41300E-002	0.00000E+000	4.40392E+001
Excavators	3.79000E-003	2.77400E-002	7.36800E-002	1.20000E-004	1.36000E-003	1.25000E-003	0.00000E+000	1.02605E+001	1.02605E+001	3.32000E-003	0.00000E+000	1.03434E+001
Rollers	5.26000E-003	5.46800E-002	4.89000E-002	1.20000E-004	2.25000E-003	2.07000E-003	0.00000E+000	1.07685E+001	1.07685E+001	3.48000E-003	0.00000E+000	1.08556E+001
Rubber Tired Loaders	8.80000E-004	7.32000E-003	5.54000E-003	2.00000E-005	2.50000E-004	2.30000E-004	0.00000E+000	2.06022E+000	2.06022E+000	6.70000E-004	0.00000E+000	2.07687E+000
Skid Steer Loaders	1.67000E-003	2.22900E-002	3.87600E-002	6.00000E-005	6.80000E-004	6.20000E-004	0.00000E+000	5.10987E+000	5.10987E+000	1.65000E-003	0.00000E+000	5.15119E+000
Tractors/Loaders/Backhoes	3.91000E-003	3.69000E-002	5.29100E-002	1.00000E-004	1.47000E-003	1.35000E-003	0.00000E+000	8.99341E+000	8.99341E+000	2.91000E-003	0.00000E+000	9.06612E+000

### Minneola Solar

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Aerial Lifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.56155E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37344E-006	1.37344E-006	0.00000E+000	0.00000E+000	1.13535E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.74615E-007	9.74615E-007	0.00000E+000	0.00000E+000	9.66798E-007
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.28630E-007	9.28630E-007	0.00000E+000	0.00000E+000	9.21182E-007
Rubber Tired Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.81491E-006
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.95699E-006	1.95699E-006	0.00000E+000	0.00000E+000	1.94130E-006
Tractors/Loaders/Balkhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11192E-006	1.11192E-006	0.00000E+000	0.00000E+000	1.10301E-006

#### Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)
No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)	0.00
No	Clean Paved Road	% PM Reduction	0.00	

### Minneola Solar

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Installation of Solar PV Equipment	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Installation of Solar PV Equipment	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Installation of Solar PV Equipment and Utility	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Installation of Solar PV Equipment and Utility	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Percent Reduction Summary

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

#### Operational Mobile Mitigation



### Minneola Solar

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements No	Provide BRT System	0.00			
Transit	Improvements No	Expand Transit Network	0.00			
Transit Improvements		Increase Transit Frequency	0.00			

**Minneola Solar**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00

**Minneola Solar**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable	3,000.00	

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

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		

**Minneola Solar**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

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

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Minneola Solar**  
**Mojave Desert AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1,067.20	1000sqft	24.50	1,067,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics -

Land Use -

Construction Phase - 60 days for installation of Solar PV equipment based on a 3 MW project size

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation

Trips and VMT - The Equipment type is based off a 3 MW Solar Installation

Road Dust - The Equipment type is based off a 3 MW Solar Installation

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	370.00	60.00

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	7/31/2026	5/23/2025
tblConstructionPhase	PhaseEndDate	2/28/2025	1/22/2025
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	HorsePower	65.00	247.00
tblOffRoadEquipment	HorsePower	80.00	367.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	LoadFactor	0.38	0.34
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Scrapers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Welders	Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	100	15
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripLength	6.60	15.00

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblTripsAndVMT	VendorTripNumber	175.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	9.00
tblTripsAndVMT	WorkerTripNumber	448.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	9.00
tblTripsAndVMT	WorkerTripNumber	13.00	9.00

**2.0 Emissions Summary**

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Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2024	0.7557	7.1206	8.2148	0.0246	0.2401	0.2431	0.4832	0.0665	0.2239	0.2904	0.0000	2,410.3122	2,410.3122	0.6355	0.0500	2,441.1063
2025	1.9547	18.9657	23.5811	0.0493	0.4249	0.7927	0.9494	0.1136	0.7294	0.7719	0.0000	4,785.0867	4,785.0867	1.4810	0.0488	4,827.3722
<b>Maximum</b>	<b>1.9547</b>	<b>18.9657</b>	<b>23.5811</b>	<b>0.0493</b>	<b>0.4249</b>	<b>0.7927</b>	<b>0.9494</b>	<b>0.1136</b>	<b>0.7294</b>	<b>0.7719</b>	<b>0.0000</b>	<b>4,785.0867</b>	<b>4,785.0867</b>	<b>1.4810</b>	<b>0.0500</b>	<b>4,827.3722</b>

**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					
2024	0.7557	7.1206	8.2148	0.0246	0.2401	0.2431	0.4832	0.0665	0.2239	0.2904	0.0000	2,410.3122	2,410.3122	0.6355	0.0500	2,441.1063
2025	1.9547	18.9657	23.5811	0.0493	0.4249	0.7927	0.9494	0.1136	0.7294	0.7719	0.0000	4,785.0867	4,785.0867	1.4810	0.0488	4,827.3722
<b>Maximum</b>	<b>1.9547</b>	<b>18.9657</b>	<b>23.5811</b>	<b>0.0493</b>	<b>0.4249</b>	<b>0.7927</b>	<b>0.9494</b>	<b>0.1136</b>	<b>0.7294</b>	<b>0.7719</b>	<b>0.0000</b>	<b>4,785.0867</b>	<b>4,785.0867</b>	<b>1.4810</b>	<b>0.0500</b>	<b>4,827.3722</b>





Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
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	0.0000
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2488</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
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	0.0000
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2488</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	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 Preparation	Site Preparation	12/28/2024	1/10/2025	5	10	
2	Installation of Solar PV Equipment and Utility	Trenching	1/11/2025	1/22/2025	5	8	
3	Installation of Solar PV Equipment	Building Construction	3/1/2025	5/23/2025	5	60	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 24.5**

**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 Preparation	Rubber Tired Loaders	1	6.00	203	0.36
Site Preparation	Skid Steer Loaders	1	6.00	97	0.37
Installation of Solar PV Equipment	Aerial Lifts	1	6.00	63	0.31
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	247	0.40
Installation of Solar PV Equipment and Utility	Excavators	2	8.00	158	0.38
Installation of Solar PV Equipment	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Installation of Solar PV Equipment	Skid Steer Loaders	1	6.00	65	0.37
Installation of Solar PV Equipment and Utility	Skid Steer Loaders	1	8.00	247	0.40

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Aerial Lifts	1	6.00	63	0.31
Installation of Solar PV Equipment and Utility	Rollers	2	8.00	367	0.48
Installation of Solar PV Equipment	Excavators	1	3.00	158	0.38
Installation of Solar PV Equipment and Utility	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Excavators	1	6.00	158	0.34
Installation of Solar PV Equipment	Bore/Drill Rigs	2	7.00	221	0.50

**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
Installation of Solar PV Equipment	6	30.00	3.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT
Installation of Solar PV Equipment and Utility	7	9.00	3.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	9.00	9.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6992	6.6052	7.6883	0.0202		0.2363	0.2363		0.2174	0.2174		1,955.1273	1,955.1273	0.6323		1,970.9355
<b>Total</b>	<b>0.6992</b>	<b>6.6052</b>	<b>7.6883</b>	<b>0.0202</b>	<b>0.0000</b>	<b>0.2363</b>	<b>0.2363</b>	<b>0.0000</b>	<b>0.2174</b>	<b>0.2174</b>		<b>1,955.1273</b>	<b>1,955.1273</b>	<b>0.6323</b>		<b>1,970.9355</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0181	0.4934	0.1818	3.3800e-003	0.1252	6.2900e-003	0.1315	0.0360	6.0100e-003	0.0420		354.8395	354.8395	1.0500e-003	0.0478	369.0995
Worker	0.0384	0.0219	0.3447	9.9000e-004	0.1150	4.9000e-004	0.1155	0.0305	4.5000e-004	0.0309		100.3454	100.3454	2.0800e-003	2.2600e-003	101.0713
<b>Total</b>	<b>0.0565</b>	<b>0.5153</b>	<b>0.5265</b>	<b>4.3700e-003</b>	<b>0.2401</b>	<b>6.7800e-003</b>	<b>0.2469</b>	<b>0.0665</b>	<b>6.4600e-003</b>	<b>0.0730</b>		<b>455.1848</b>	<b>455.1848</b>	<b>3.1300e-003</b>	<b>0.0500</b>	<b>470.1707</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6992	6.6052	7.6883	0.0202		0.2363	0.2363		0.2174	0.2174	0.0000	1,955.1273	1,955.1273	0.6323		1,970.9355
<b>Total</b>	<b>0.6992</b>	<b>6.6052</b>	<b>7.6883</b>	<b>0.0202</b>	<b>0.0000</b>	<b>0.2363</b>	<b>0.2363</b>	<b>0.0000</b>	<b>0.2174</b>	<b>0.2174</b>	<b>0.0000</b>	<b>1,955.1273</b>	<b>1,955.1273</b>	<b>0.6323</b>		<b>1,970.9355</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0181	0.4934	0.1818	3.3800e-003	0.1252	6.2900e-003	0.1315	0.0360	6.0100e-003	0.0420		354.8395	354.8395	1.0500e-003	0.0478	369.0995
Worker	0.0384	0.0219	0.3447	9.9000e-004	0.1150	4.9000e-004	0.1155	0.0305	4.5000e-004	0.0309		100.3454	100.3454	2.0800e-003	2.2600e-003	101.0713
<b>Total</b>	<b>0.0565</b>	<b>0.5153</b>	<b>0.5265</b>	<b>4.3700e-003</b>	<b>0.2401</b>	<b>6.7800e-003</b>	<b>0.2469</b>	<b>0.0665</b>	<b>6.4600e-003</b>	<b>0.0730</b>		<b>455.1848</b>	<b>455.1848</b>	<b>3.1300e-003</b>	<b>0.0500</b>	<b>470.1707</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6440	5.6419	7.6489	0.0202		0.2030	0.2030		0.1868	0.1868		1,956.3443	1,956.3443	0.6327		1,972.1623
<b>Total</b>	<b>0.6440</b>	<b>5.6419</b>	<b>7.6489</b>	<b>0.0202</b>	<b>0.0000</b>	<b>0.2030</b>	<b>0.2030</b>	<b>0.0000</b>	<b>0.1868</b>	<b>0.1868</b>		<b>1,956.3443</b>	<b>1,956.3443</b>	<b>0.6327</b>		<b>1,972.1623</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0176	0.4872	0.1752	3.3100e-003	0.1252	6.2600e-003	0.1314	0.0360	5.9900e-003	0.0420		347.5042	347.5042	1.0000e-003	0.0467	361.4326
Worker	0.0357	0.0195	0.3186	9.6000e-004	0.1150	4.6000e-004	0.1154	0.0305	4.3000e-004	0.0309		96.8908	96.8908	1.8700e-003	2.1000e-003	97.5637
<b>Total</b>	<b>0.0533</b>	<b>0.5067</b>	<b>0.4938</b>	<b>4.2700e-003</b>	<b>0.2401</b>	<b>6.7200e-003</b>	<b>0.2469</b>	<b>0.0665</b>	<b>6.4200e-003</b>	<b>0.0729</b>		<b>444.3950</b>	<b>444.3950</b>	<b>2.8700e-003</b>	<b>0.0488</b>	<b>458.9962</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6440	5.6419	7.6489	0.0202		0.2030	0.2030		0.1868	0.1868	0.0000	1,956.3443	1,956.3443	0.6327		1,972.1623
<b>Total</b>	<b>0.6440</b>	<b>5.6419</b>	<b>7.6489</b>	<b>0.0202</b>	<b>0.0000</b>	<b>0.2030</b>	<b>0.2030</b>	<b>0.0000</b>	<b>0.1868</b>	<b>0.1868</b>	<b>0.0000</b>	<b>1,956.3443</b>	<b>1,956.3443</b>	<b>0.6327</b>		<b>1,972.1623</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0176	0.4872	0.1752	3.3100e-003	0.1252	6.2600e-003	0.1314	0.0360	5.9900e-003	0.0420		347.5042	347.5042	1.0000e-003	0.0467	361.4326
Worker	0.0357	0.0195	0.3186	9.6000e-004	0.1150	4.6000e-004	0.1154	0.0305	4.3000e-004	0.0309		96.8908	96.8908	1.8700e-003	2.1000e-003	97.5637
<b>Total</b>	<b>0.0533</b>	<b>0.5067</b>	<b>0.4938</b>	<b>4.2700e-003</b>	<b>0.2401</b>	<b>6.7200e-003</b>	<b>0.2469</b>	<b>0.0665</b>	<b>6.4200e-003</b>	<b>0.0729</b>		<b>444.3950</b>	<b>444.3950</b>	<b>2.8700e-003</b>	<b>0.0488</b>	<b>458.9962</b>



Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Installation of Solar PV Equipment and Utility - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9132	18.7838	23.2041	0.0472		0.7902	0.7902		0.7270	0.7270		4,572.3611	4,572.3611	1.4788		4,609.3310
<b>Total</b>	<b>1.9132</b>	<b>18.7838</b>	<b>23.2041</b>	<b>0.0472</b>		<b>0.7902</b>	<b>0.7902</b>		<b>0.7270</b>	<b>0.7270</b>		<b>4,572.3611</b>	<b>4,572.3611</b>	<b>1.4788</b>		<b>4,609.3310</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.1624	0.0584	1.1000e-003	0.0417	2.0900e-003	0.0438	0.0120	2.0000e-003	0.0140		115.8347	115.8347	3.3000e-004	0.0156	120.4775
Worker	0.0357	0.0195	0.3186	9.6000e-004	0.1150	4.6000e-004	0.1154	0.0305	4.3000e-004	0.0309		96.8908	96.8908	1.8700e-003	2.1000e-003	97.5637
<b>Total</b>	<b>0.0416</b>	<b>0.1819</b>	<b>0.3770</b>	<b>2.0600e-003</b>	<b>0.1567</b>	<b>2.5500e-003</b>	<b>0.1592</b>	<b>0.0425</b>	<b>2.4300e-003</b>	<b>0.0449</b>		<b>212.7256</b>	<b>212.7256</b>	<b>2.2000e-003</b>	<b>0.0177</b>	<b>218.0412</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Installation of Solar PV Equipment and Utility - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9132	18.7838	23.2041	0.0472		0.7902	0.7902		0.7270	0.7270	0.0000	4,572.3611	4,572.3611	1.4788		4,609.3310
<b>Total</b>	<b>1.9132</b>	<b>18.7838</b>	<b>23.2041</b>	<b>0.0472</b>		<b>0.7902</b>	<b>0.7902</b>		<b>0.7270</b>	<b>0.7270</b>	<b>0.0000</b>	<b>4,572.3611</b>	<b>4,572.3611</b>	<b>1.4788</b>		<b>4,609.3310</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.1624	0.0584	1.1000e-003	0.0417	2.0900e-003	0.0438	0.0120	2.0000e-003	0.0140		115.8347	115.8347	3.3000e-004	0.0156	120.4775
Worker	0.0357	0.0195	0.3186	9.6000e-004	0.1150	4.6000e-004	0.1154	0.0305	4.3000e-004	0.0309		96.8908	96.8908	1.8700e-003	2.1000e-003	97.5637
<b>Total</b>	<b>0.0416</b>	<b>0.1819</b>	<b>0.3770</b>	<b>2.0600e-003</b>	<b>0.1567</b>	<b>2.5500e-003</b>	<b>0.1592</b>	<b>0.0425</b>	<b>2.4300e-003</b>	<b>0.0449</b>		<b>212.7256</b>	<b>212.7256</b>	<b>2.2000e-003</b>	<b>0.0177</b>	<b>218.0412</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.2076	7.4745	0.0225		0.1746	0.1746		0.1607	0.1607		2,178.4066	2,178.4066	0.7045		2,196.0201
<b>Total</b>	<b>0.5485</b>	<b>5.2076</b>	<b>7.4745</b>	<b>0.0225</b>		<b>0.1746</b>	<b>0.1746</b>		<b>0.1607</b>	<b>0.1607</b>		<b>2,178.4066</b>	<b>2,178.4066</b>	<b>0.7045</b>		<b>2,196.0201</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.1624	0.0584	1.1000e-003	0.0417	2.0900e-003	0.0438	0.0120	2.0000e-003	0.0140		115.8347	115.8347	3.3000e-004	0.0156	120.4775
Worker	0.1190	0.0650	1.0620	3.2000e-003	0.3832	1.5400e-003	0.3847	0.1016	1.4200e-003	0.1030		322.9694	322.9694	6.2300e-003	7.0000e-003	325.2122
<b>Total</b>	<b>0.1249</b>	<b>0.2273</b>	<b>1.1204</b>	<b>4.3000e-003</b>	<b>0.4249</b>	<b>3.6300e-003</b>	<b>0.4286</b>	<b>0.1136</b>	<b>3.4200e-003</b>	<b>0.1170</b>		<b>438.8042</b>	<b>438.8042</b>	<b>6.5600e-003</b>	<b>0.0226</b>	<b>445.6898</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.2076	7.4745	0.0225		0.1746	0.1746		0.1607	0.1607	0.0000	2,178.4066	2,178.4066	0.7045		2,196.0201
<b>Total</b>	<b>0.5485</b>	<b>5.2076</b>	<b>7.4745</b>	<b>0.0225</b>		<b>0.1746</b>	<b>0.1746</b>		<b>0.1607</b>	<b>0.1607</b>	<b>0.0000</b>	<b>2,178.4066</b>	<b>2,178.4066</b>	<b>0.7045</b>		<b>2,196.0201</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.1624	0.0584	1.1000e-003	0.0417	2.0900e-003	0.0438	0.0120	2.0000e-003	0.0140		115.8347	115.8347	3.3000e-004	0.0156	120.4775
Worker	0.1190	0.0650	1.0620	3.2000e-003	0.3832	1.5400e-003	0.3847	0.1016	1.4200e-003	0.1030		322.9694	322.9694	6.2300e-003	7.0000e-003	325.2122
<b>Total</b>	<b>0.1249</b>	<b>0.2273</b>	<b>1.1204</b>	<b>4.3000e-003</b>	<b>0.4249</b>	<b>3.6300e-003</b>	<b>0.4286</b>	<b>0.1136</b>	<b>3.4200e-003</b>	<b>0.1170</b>		<b>438.8042</b>	<b>438.8042</b>	<b>6.5600e-003</b>	<b>0.0226</b>	<b>445.6898</b>

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**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	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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-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
Other Non-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
Other Non-Asphalt Surfaces	0.533906	0.057134	0.174979	0.135238	0.028400	0.007566	0.006280	0.022304	0.000478	0.000157	0.027480	0.000931	0.005146

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Other Non-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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	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					
Other Non-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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
Unmitigated	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488

**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	0.2033					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0100	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>		<b>0.2488</b>



Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.2033					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0100	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>		<b>0.2488</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Minneola Solar - Mojave Desert AQMD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Minneola Solar**  
**Mojave Desert AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1,067.20	1000sqft	24.50	1,067,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics - No Utility will be used. The project is community solar.

Land Use -

Construction Phase - 60 days for installation of Solar PV equipment based on a 3 MW project size

Off-road Equipment - The Equipment type is based off a 3 MW Solar Installation.

Off-road Equipment - Equipment is based off a 3 MW solar project.

Off-road Equipment - Equipment is bases off a 3 MW solar project.

Trips and VMT - All truck trips based off construction plan for a 3 MW solar project.

Road Dust - project site will not be paved. Solar will be elevated above soil.

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	370.00	60.00
tblConstructionPhase	PhaseEndDate	12/13/2024	12/25/2024
tblConstructionPhase	PhaseEndDate	5/15/2026	3/19/2025
tblConstructionPhase	PhaseStartDate	12/14/2024	12/26/2024
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	HorsePower	65.00	97.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Welders	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders

Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	100	10
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripLength	6.60	15.00
tblTripsAndVMT	VendorTripNumber	0.00	9.00
tblTripsAndVMT	VendorTripNumber	175.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	WorkerTripNumber	13.00	9.00
tblTripsAndVMT	WorkerTripNumber	448.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	9.00

**2.0 Emissions Summary**

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Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2024	0.7684	7.2728	10.0410	0.0267	0.4249	0.2812	0.6163	0.1136	0.2588	0.3013	0.0000	2,601.2215	2,601.2215	0.7141	0.0502	2,626.1104
2025	0.6680	5.4581	8.3756	0.0265	0.4249	0.1787	0.6036	0.1136	0.1645	0.2781	0.0000	2,588.4977	2,588.4977	0.7134	0.0227	2,613.0955
<b>Maximum</b>	<b>0.7684</b>	<b>7.2728</b>	<b>10.0410</b>	<b>0.0267</b>	<b>0.4249</b>	<b>0.2812</b>	<b>0.6163</b>	<b>0.1136</b>	<b>0.2588</b>	<b>0.3013</b>	<b>0.0000</b>	<b>2,601.2215</b>	<b>2,601.2215</b>	<b>0.7141</b>	<b>0.0502</b>	<b>2,626.1104</b>

**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					
2024	0.7684	7.2728	10.0410	0.0267	0.4249	0.2812	0.6163	0.1136	0.2588	0.3013	0.0000	2,601.2215	2,601.2215	0.7141	0.0502	2,626.1104
2025	0.6680	5.4581	8.3756	0.0265	0.4249	0.1787	0.6036	0.1136	0.1645	0.2781	0.0000	2,588.4977	2,588.4977	0.7134	0.0227	2,613.0955
<b>Maximum</b>	<b>0.7684</b>	<b>7.2728</b>	<b>10.0410</b>	<b>0.0267</b>	<b>0.4249</b>	<b>0.2812</b>	<b>0.6163</b>	<b>0.1136</b>	<b>0.2588</b>	<b>0.3013</b>	<b>0.0000</b>	<b>2,601.2215</b>	<b>2,601.2215</b>	<b>0.7141</b>	<b>0.0502</b>	<b>2,626.1104</b>



Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
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	0.0000
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2488</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
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	0.0000
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>0.2488</b>



Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	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 Preparation	Site Preparation	12/1/2024	12/13/2024	5	10	Site Prep
2	Installation of Solar PV Equipment and Utility	Trenching	12/14/2024	12/25/2024	5	8	Installation of Solar PV Equipment
3	Installation of Solar PV Equipment	Building Construction	12/26/2024	3/19/2025	5	60	Installation of Solar PV Equipment

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 24.5**

**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 Preparation	Aerial Lifts	1	6.00	63	0.31
Site Preparation	Excavators	1	6.00	158	0.38
Site Preparation	Rubber Tired Loaders	1	6.00	203	0.36
Installation of Solar PV Equipment and Utility	Excavators	2	4.00	158	0.38
Installation of Solar PV Equipment and Utility	Skid Steer Loaders	1	4.00	65	0.37
Installation of Solar PV Equipment	Aerial Lifts	1	6.00	63	0.31
Installation of Solar PV Equipment	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Installation of Solar PV Equipment	Skid Steer Loaders	1	6.00	65	0.37

Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Installation of Solar PV Equipment	Excavators	1	3.00	158	0.38
Installation of Solar PV Equipment and Utility	Rollers	2	4.00	80	0.38
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	247	0.40
Installation of Solar PV Equipment and Utility	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Installation of Solar PV Equipment	Bore/Drill Rigs	2	7.00	221	0.50
Site Preparation	Skid Steer Loaders	1	6.00	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
Site Preparation	5	9.00	9.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT
Installation of Solar PV Equipment	6	30.00	3.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT
Installation of Solar PV Equipment and Utilit	7	9.00	3.00	0.00	16.80	15.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Minneola Solar Project - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7149	6.7277	7.9592	0.0207		0.2423	0.2423		0.2229	0.2229		1,998.0605	1,998.0605	0.6462		2,014.2158
<b>Total</b>	<b>0.7149</b>	<b>6.7277</b>	<b>7.9592</b>	<b>0.0207</b>	<b>0.0000</b>	<b>0.2423</b>	<b>0.2423</b>	<b>0.0000</b>	<b>0.2229</b>	<b>0.2229</b>		<b>1,998.0605</b>	<b>1,998.0605</b>	<b>0.6462</b>		<b>2,014.2158</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0173	0.5226	0.1868	3.3800e-003	0.1252	6.2900e-003	0.1315	0.0360	6.0200e-003	0.0421		355.3574	355.3574	1.0000e-003	0.0479	369.6563
Worker	0.0362	0.0225	0.2689	8.8000e-004	0.1150	4.9000e-004	0.1155	0.0305	4.5000e-004	0.0309		89.1128	89.1128	2.0500e-003	2.2900e-003	89.8478
<b>Total</b>	<b>0.0535</b>	<b>0.5451</b>	<b>0.4557</b>	<b>4.2600e-003</b>	<b>0.2401</b>	<b>6.7800e-003</b>	<b>0.2469</b>	<b>0.0665</b>	<b>6.4700e-003</b>	<b>0.0730</b>		<b>444.4702</b>	<b>444.4702</b>	<b>3.0500e-003</b>	<b>0.0502</b>	<b>459.5041</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7149	6.7277	7.9592	0.0207		0.2423	0.2423		0.2229	0.2229	0.0000	1,998.0605	1,998.0605	0.6462		2,014.2158
<b>Total</b>	<b>0.7149</b>	<b>6.7277</b>	<b>7.9592</b>	<b>0.0207</b>	<b>0.0000</b>	<b>0.2423</b>	<b>0.2423</b>	<b>0.0000</b>	<b>0.2229</b>	<b>0.2229</b>	<b>0.0000</b>	<b>1,998.0605</b>	<b>1,998.0605</b>	<b>0.6462</b>		<b>2,014.2158</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0173	0.5226	0.1868	3.3800e-003	0.1252	6.2900e-003	0.1315	0.0360	6.0200e-003	0.0421		355.3574	355.3574	1.0000e-003	0.0479	369.6563
Worker	0.0362	0.0225	0.2689	8.8000e-004	0.1150	4.9000e-004	0.1155	0.0305	4.5000e-004	0.0309		89.1128	89.1128	2.0500e-003	2.2900e-003	89.8478
<b>Total</b>	<b>0.0535</b>	<b>0.5451</b>	<b>0.4557</b>	<b>4.2600e-003</b>	<b>0.2401</b>	<b>6.7800e-003</b>	<b>0.2469</b>	<b>0.0665</b>	<b>6.4700e-003</b>	<b>0.0730</b>		<b>444.4702</b>	<b>444.4702</b>	<b>3.0500e-003</b>	<b>0.0502</b>	<b>459.5041</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Installation of Solar PV Equipment and Utility - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6079	5.8609	9.7098	0.0143		0.2786	0.2786		0.2564	0.2564		1,381.6710	1,381.6710	0.4469		1,392.8425
<b>Total</b>	<b>0.6079</b>	<b>5.8609</b>	<b>9.7098</b>	<b>0.0143</b>		<b>0.2786</b>	<b>0.2786</b>		<b>0.2564</b>	<b>0.2564</b>		<b>1,381.6710</b>	<b>1,381.6710</b>	<b>0.4469</b>		<b>1,392.8425</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7800e-003	0.1742	0.0623	1.1300e-003	0.0417	2.1000e-003	0.0438	0.0120	2.0100e-003	0.0140		118.4525	118.4525	3.3000e-004	0.0160	123.2188
Worker	0.0362	0.0225	0.2689	8.8000e-004	0.1150	4.9000e-004	0.1155	0.0305	4.5000e-004	0.0309		89.1128	89.1128	2.0500e-003	2.2900e-003	89.8478
<b>Total</b>	<b>0.0419</b>	<b>0.1967</b>	<b>0.3311</b>	<b>2.0100e-003</b>	<b>0.1567</b>	<b>2.5900e-003</b>	<b>0.1593</b>	<b>0.0425</b>	<b>2.4600e-003</b>	<b>0.0450</b>		<b>207.5653</b>	<b>207.5653</b>	<b>2.3800e-003</b>	<b>0.0183</b>	<b>213.0666</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Installation of Solar PV Equipment and Utility - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6079	5.8609	9.7098	0.0143		0.2786	0.2786		0.2564	0.2564	0.0000	1,381.6710	1,381.6710	0.4469		1,392.8425
<b>Total</b>	<b>0.6079</b>	<b>5.8609</b>	<b>9.7098</b>	<b>0.0143</b>		<b>0.2786</b>	<b>0.2786</b>		<b>0.2564</b>	<b>0.2564</b>	<b>0.0000</b>	<b>1,381.6710</b>	<b>1,381.6710</b>	<b>0.4469</b>		<b>1,392.8425</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7800e-003	0.1742	0.0623	1.1300e-003	0.0417	2.1000e-003	0.0438	0.0120	2.0100e-003	0.0140		118.4525	118.4525	3.3000e-004	0.0160	123.2188
Worker	0.0362	0.0225	0.2689	8.8000e-004	0.1150	4.9000e-004	0.1155	0.0305	4.5000e-004	0.0309		89.1128	89.1128	2.0500e-003	2.2900e-003	89.8478
<b>Total</b>	<b>0.0419</b>	<b>0.1967</b>	<b>0.3311</b>	<b>2.0100e-003</b>	<b>0.1567</b>	<b>2.5900e-003</b>	<b>0.1593</b>	<b>0.0425</b>	<b>2.4600e-003</b>	<b>0.0450</b>		<b>207.5653</b>	<b>207.5653</b>	<b>2.3800e-003</b>	<b>0.0183</b>	<b>213.0666</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5643	5.4227	7.4994	0.0226		0.1877	0.1877		0.1727	0.1727		2,185.7263	2,185.7263	0.7069		2,203.3990
<b>Total</b>	<b>0.5643</b>	<b>5.4227</b>	<b>7.4994</b>	<b>0.0226</b>		<b>0.1877</b>	<b>0.1877</b>		<b>0.1727</b>	<b>0.1727</b>		<b>2,185.7263</b>	<b>2,185.7263</b>	<b>0.7069</b>		<b>2,203.3990</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7800e-003	0.1742	0.0623	1.1300e-003	0.0417	2.1000e-003	0.0438	0.0120	2.0100e-003	0.0140		118.4525	118.4525	3.3000e-004	0.0160	123.2188
Worker	0.1205	0.0749	0.8962	2.9400e-003	0.3832	1.6300e-003	0.3848	0.1016	1.5000e-003	0.1031		297.0427	297.0427	6.8500e-003	7.6500e-003	299.4926
<b>Total</b>	<b>0.1263</b>	<b>0.2491</b>	<b>0.9585</b>	<b>4.0700e-003</b>	<b>0.4249</b>	<b>3.7300e-003</b>	<b>0.4287</b>	<b>0.1136</b>	<b>3.5100e-003</b>	<b>0.1171</b>		<b>415.4951</b>	<b>415.4951</b>	<b>7.1800e-003</b>	<b>0.0236</b>	<b>422.7114</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5643	5.4227	7.4994	0.0226		0.1877	0.1877		0.1727	0.1727	0.0000	2,185.7263	2,185.7263	0.7069		2,203.3990
<b>Total</b>	<b>0.5643</b>	<b>5.4227</b>	<b>7.4994</b>	<b>0.0226</b>		<b>0.1877</b>	<b>0.1877</b>		<b>0.1727</b>	<b>0.1727</b>	<b>0.0000</b>	<b>2,185.7263</b>	<b>2,185.7263</b>	<b>0.7069</b>		<b>2,203.3990</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7800e-003	0.1742	0.0623	1.1300e-003	0.0417	2.1000e-003	0.0438	0.0120	2.0100e-003	0.0140		118.4525	118.4525	3.3000e-004	0.0160	123.2188
Worker	0.1205	0.0749	0.8962	2.9400e-003	0.3832	1.6300e-003	0.3848	0.1016	1.5000e-003	0.1031		297.0427	297.0427	6.8500e-003	7.6500e-003	299.4926
<b>Total</b>	<b>0.1263</b>	<b>0.2491</b>	<b>0.9585</b>	<b>4.0700e-003</b>	<b>0.4249</b>	<b>3.7300e-003</b>	<b>0.4287</b>	<b>0.1136</b>	<b>3.5100e-003</b>	<b>0.1171</b>		<b>415.4951</b>	<b>415.4951</b>	<b>7.1800e-003</b>	<b>0.0236</b>	<b>422.7114</b>



Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5501	5.2195	7.4861	0.0226		0.1751	0.1751		0.1611	0.1611		2,185.5937	2,185.5937	0.7069		2,203.2653
<b>Total</b>	<b>0.5501</b>	<b>5.2195</b>	<b>7.4861</b>	<b>0.0226</b>		<b>0.1751</b>	<b>0.1751</b>		<b>0.1611</b>	<b>0.1611</b>		<b>2,185.5937</b>	<b>2,185.5937</b>	<b>0.7069</b>		<b>2,203.2653</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5900e-003	0.1720	0.0601	1.1000e-003	0.0417	2.0900e-003	0.0438	0.0120	2.0000e-003	0.0140		116.0050	116.0050	3.2000e-004	0.0156	120.6601
Worker	0.1123	0.0666	0.8294	2.8400e-003	0.3832	1.5400e-003	0.3847	0.1016	1.4200e-003	0.1030		286.8991	286.8991	6.1700e-003	7.1000e-003	289.1701
<b>Total</b>	<b>0.1179</b>	<b>0.2386</b>	<b>0.8895</b>	<b>3.9400e-003</b>	<b>0.4249</b>	<b>3.6300e-003</b>	<b>0.4286</b>	<b>0.1136</b>	<b>3.4200e-003</b>	<b>0.1171</b>		<b>402.9040</b>	<b>402.9040</b>	<b>6.4900e-003</b>	<b>0.0227</b>	<b>409.8302</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Installation of Solar PV Equipment - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5501	5.2195	7.4861	0.0226		0.1751	0.1751		0.1611	0.1611	0.0000	2,185.5937	2,185.5937	0.7069		2,203.2653
<b>Total</b>	<b>0.5501</b>	<b>5.2195</b>	<b>7.4861</b>	<b>0.0226</b>		<b>0.1751</b>	<b>0.1751</b>		<b>0.1611</b>	<b>0.1611</b>	<b>0.0000</b>	<b>2,185.5937</b>	<b>2,185.5937</b>	<b>0.7069</b>		<b>2,203.2653</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5900e-003	0.1720	0.0601	1.1000e-003	0.0417	2.0900e-003	0.0438	0.0120	2.0000e-003	0.0140		116.0050	116.0050	3.2000e-004	0.0156	120.6601
Worker	0.1123	0.0666	0.8294	2.8400e-003	0.3832	1.5400e-003	0.3847	0.1016	1.4200e-003	0.1030		286.8991	286.8991	6.1700e-003	7.1000e-003	289.1701
<b>Total</b>	<b>0.1179</b>	<b>0.2386</b>	<b>0.8895</b>	<b>3.9400e-003</b>	<b>0.4249</b>	<b>3.6300e-003</b>	<b>0.4286</b>	<b>0.1136</b>	<b>3.4200e-003</b>	<b>0.1171</b>		<b>402.9040</b>	<b>402.9040</b>	<b>6.4900e-003</b>	<b>0.0227</b>	<b>409.8302</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**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	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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-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
Other Non-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
Other Non-Asphalt Surfaces	0.533906	0.057134	0.174979	0.135238	0.028400	0.007566	0.006280	0.022304	0.000478	0.000157	0.027480	0.000931	0.005146

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
Other Non-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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	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					
Other Non-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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
Unmitigated	0.5913	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488

**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	0.2033					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0100	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>		<b>0.2488</b>

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.2033					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0100	9.8000e-004	0.1087	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		0.2336	0.2336	6.1000e-004		0.2488
<b>Total</b>	<b>0.5913</b>	<b>9.8000e-004</b>	<b>0.1087</b>	<b>1.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>0.2336</b>	<b>0.2336</b>	<b>6.1000e-004</b>		<b>0.2488</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Minneola Solar - Mojave Desert AQMD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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**

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